

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

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**ASSESSMENT REPORT**

describing

**PROSPECTING, GEOCHEMICAL AND GEOPHYSICAL SURVEYS**

on the

**RED LINE PROPERTY**

Red Line 1-12 YB60825-YB60836  
13-28 YB70624-YB70639

Latitude 61°25' N; Longitude 130°22' W

NTS 105G/8

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.

April, 1996



093491

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## INTRODUCTION

Expatriate Resources Ltd. has a 100% interest in the Red Line property which protects a previously unstaked target selected from a regional geochemical data base documenting results of 1973 exploration by a joint venture managed by Archer, Cathro and Associates Ltd. The first twelve claims were staked in August 1995 over two soil sample sites that had yielded moderately to strongly anomalous lead and zinc values. Sixteen claims were added in October 1995 bringing the total to twenty-eight.

Field exploration was conducted from September 5 to 10, 1995 and February 23 to March 3, 1996 by two-person and four-person crews respectively, working from fly camps on the property. The work consisted of grid soil geochemistry, geological mapping and prospecting followed by an eleven line kilometre Maxmin/magnetometer survey. The work was managed by Archer, Cathro & Associates (1981) Limited and supervised by the author. Appendix I contains the Author's Statement of Qualifications while Appendix II contains a report describing the geophysical surveys.

**PROPERTY, LOCATION AND ACCESS**

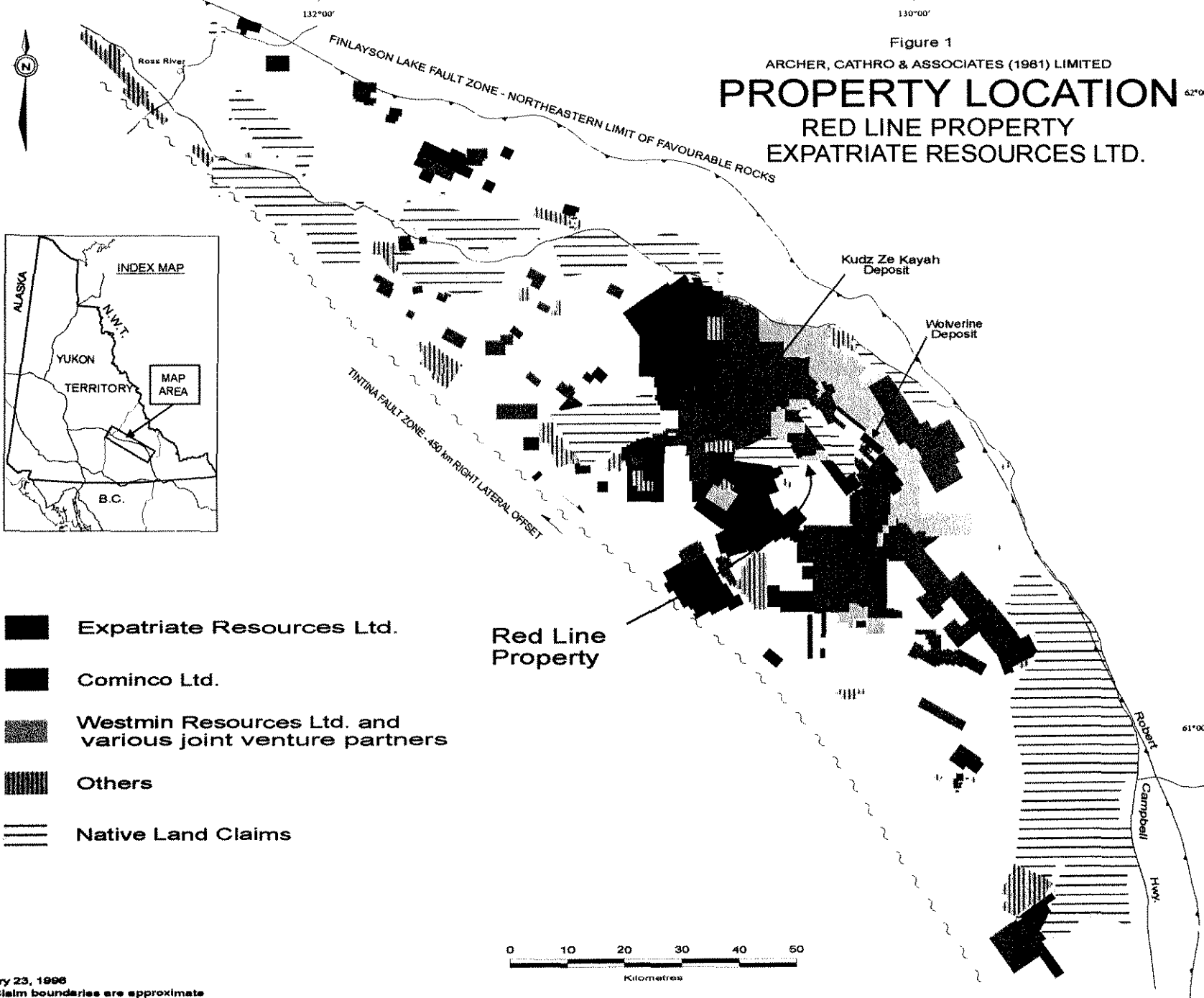
The property is located in southeast Yukon at latitude 61°25'N and longitude 130°22'W on NTS map sheet 105G/8 (Figure 1). It is comprised of twenty-eight contiguous mineral claims (Figure 2) registered with the Watson Lake Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited which holds them in trust for Expatriate Resources Ltd. Claim registration data is listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Red Line 1-12	YB60825-YB60836	March 17, 2001
13-28	YB70624-YB70639	October 17, 1996

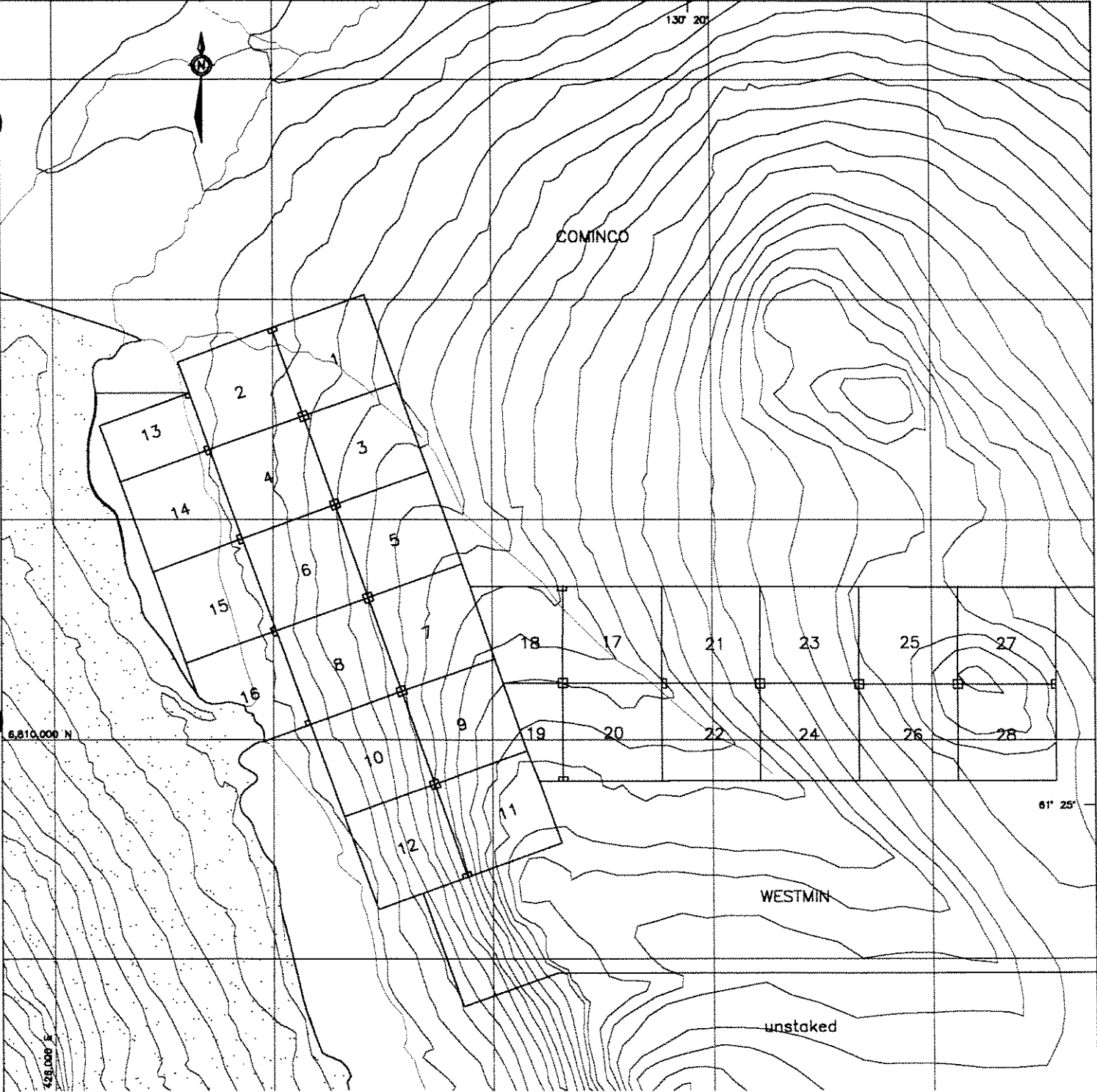
\*Expiry dates include work filed for assessment credit but not yet accepted.

In 1995 the property was accessed by helicopter from a logistical staging area at the Finlayson Airstrip (Km 246 on the Robert Campbell Highway). The airstrip lies 37 km northwest of the property and 260 km northeast of Whitehorse. Road access to the airstrip is from Ross River, 110 km to the northwest or Watson Lake, 260 km to the southeast. Helicopter support was provided by Bell 206B Jet Rangers operated by Trans North Air from its permanent base at Ross River or Frontier Helicopters which had a contract machine stationed at Westmin Resources Limited's exploration camp on Wolverine Lake 10 km due east of the property.

Figure 1  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY LOCATION**  
 RED LINE PROPERTY  
 EXPATRIATE RESOURCES LTD.



February 23, 1986  
 Note: Claim boundaries are approximate  
 Expatriate Resources Ltd. does not assume responsibility for errors or omissions



- Claim boundary
- ▨ Native Land Claim

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# CLAIM LOCATION

RED LINE PROPERTY  
EXPATRIATE RESOURCES LTD.



## **GEOMORPHOLOGY**

The Red Line property covers a broad glacial valley and part of a low ridge near the northern edge of the Campbell Range within the Pelly Mountains. Creeks draining the property flow northward into Wolverine Lake and eventually into the Frances and Liard Rivers, which are part of the MacKenzie River watershed.

Elevations range from 1255 m on the shores of two unnamed lakes bordering the west edge of the claim block to 1665 m at the crest of a northwest-trending ridge on the east side of the property. Topographic relief is gentle (typically between 5 and 15°) with the exception of one area in the southwest corner of the property where slopes average 25°. Pleistocene valley glaciation produced clusters of scoured bedrock surrounded by lateral moraines and till on the valley bottom east of the lakes. Most hillsides are blanketed by talus.

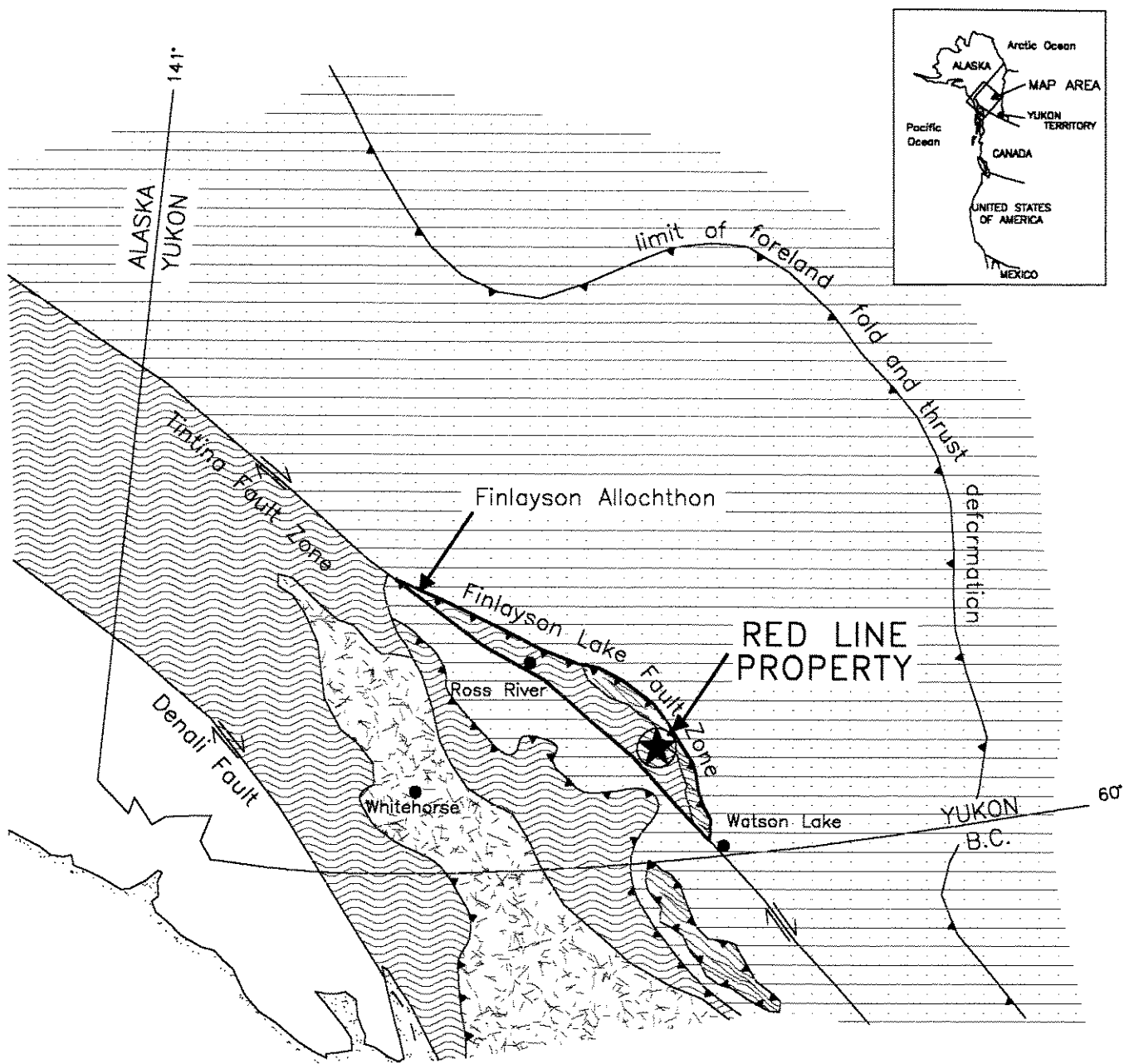
Vegetation consists of moderately dense growths of stunted black spruce, balsam and alder near lakeshores giving way to buckbrush, willow and moss above 1380 m and eventually scattered buckbrush, alpine grass and lichen at elevations exceeding 1600 m. Marshes are common on upland plateaus.

## REGIONAL GEOLOGY

The Red Line property lies within the 380 km long, up to 60 km wide Finlayson Allochthon which consists of rocks belonging to the Yukon-Tanana and Slide Mountain Terranes (Figure 3). The southwest side of the allochthon is defined by the Tintina Fault Zone, a series of subparallel transcurrent faults which have produced approximately 450 km of dextral offset in Late Cretaceous and/or Early Tertiary times (Tempelman-Kluit et al, 1976). The northeast edge is a broad arc marking the surface trace of the Finlayson Lake Fault Zone, a complex mixture of thrust and high angle faults. Both fault zones juxtapose the allochthonous rocks with autochthonous rocks of the North American miogeocline.

The Yukon-Tanana and Slide Mountain Terranes are composed largely of Late Paleozoic arc stratigraphy of uncertain origin (Hansen, 1990 and Mortensen, 1992). Yukon-Tanana is more metamorphosed and contains more plutons while Slide Mountain is distinguished by the presence of ophiolitic rocks. A number of thrust faults associated with the Finlayson Lake Fault Zone have imbricated Yukon-Tanana and Slide Mountain assemblages frequently repeating various parts of the stratigraphy. All of the main volcanogenic massive sulphide occurrences in the Finlayson Lake area are hosted by Late Devonian to Mid-Mississippian metavolcanic and metasedimentary rocks of Yukon-Tanana Terrane (Johnston and Mortensen, 1994).

Geology in the vicinity of the Red Line property was mapped at 1:250,000 scale in the 1970's by the Geological Survey of Canada (Tempelman-Kluit, 1977) and reinterpreted at approximately 1:500,000 scale by industry geologists in the early 1980's (Mortensen and Jilson,









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

FIGURE 3  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TECTONIC SETTING**  
 RED LINE PROPERTY  
 EXPATRIATE RESOURCES LTD.



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

1985). The following geological summary is based primarily on the work of Mortensen and Jilson and, for consistency, their nomenclature and unit descriptions are used throughout the remainder of this report.

Six principal lithological packages have been identified within the allochthonous rocks in the Finlayson Lake area (Figure 4). They include two metamorphic assemblages that comprise the bulk of Yukon-Tanana Terrane, a relatively unmetamorphosed package belonging to Slide Mountain Terrane and three younger units that intrude or overlie both terranes.

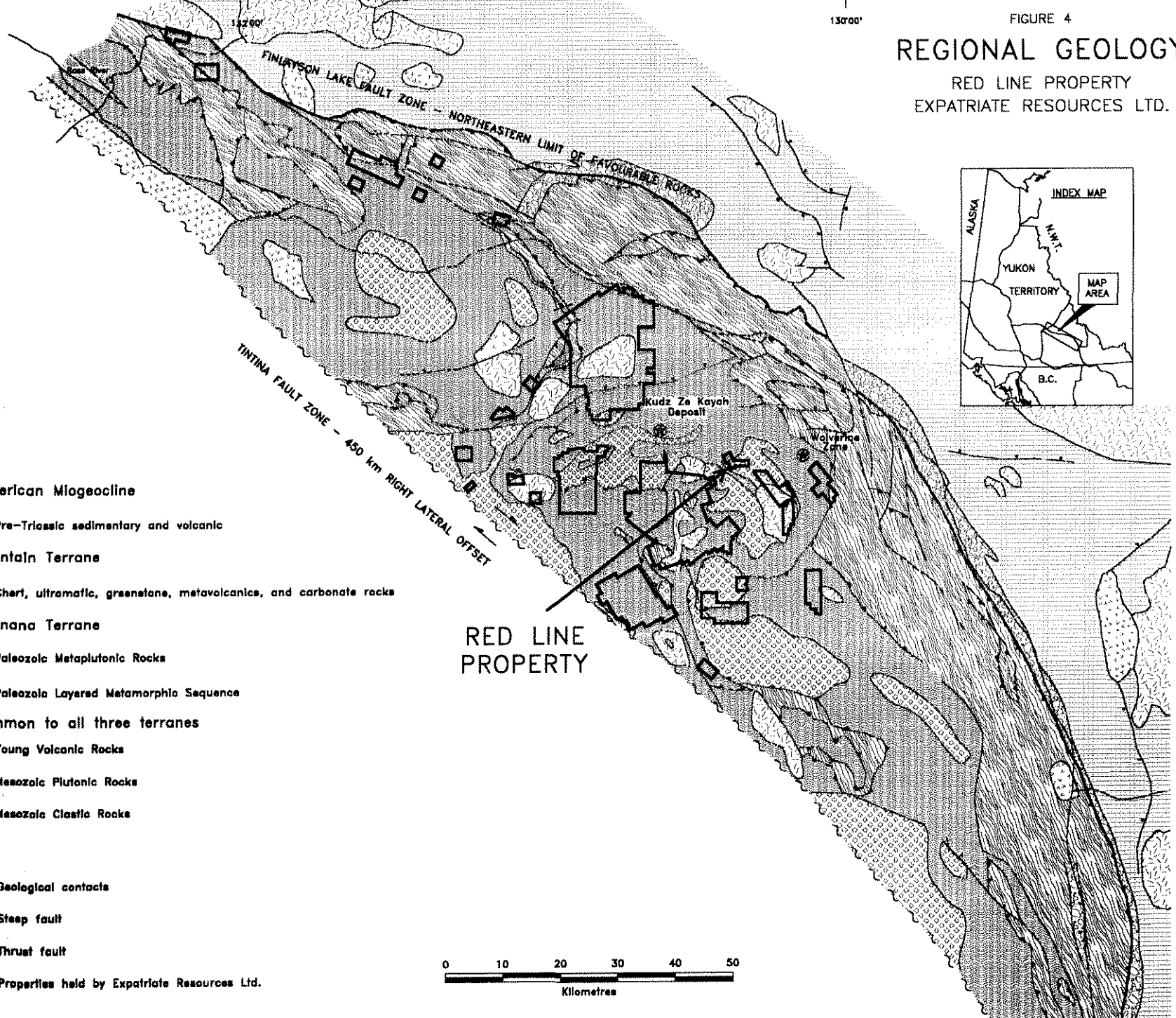
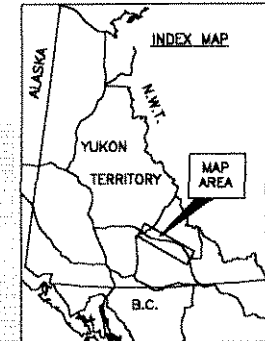
Paleozoic Layered Metamorphic Sequence is the oldest and most abundant lithological package within Yukon-Tanana Terrane. It consists of three distinct stratigraphic units with a total thickness of approximately 3 km. The lowest unit contains pre-Late Devonian, micaceous feldspathic quartzite with minor marble. The middle unit is Late Devonian to Mid-Mississippian in age and is the focus of volcanogenic massive sulphide exploration in the Finlayson Lake area. It consists of dark siliceous phyllite that is increasingly carbonaceous toward the base of the section where it is interfingered with widespread mafic metavolcanic schist. Localized felsic metavolcanic centres are found throughout the section. The uppermost unit contains Early Pennsylvanian to Early Permian white carbonate and quartzite.

Paleozoic Metaplutonic Rocks are also confined to Yukon-Tanana Terrane. They are subdivided into three suites, all of which are coarse grained and have yielded Mid-Mississippian age dates (340 to 359 Ma). The quartz monzonitic to quartz dioritic Simpson Range plutonic suite is slightly older than the augen orthogneiss (leucogranite) and monzonitic orthogneiss

# REGIONAL GEOLOGY

RED LINE PROPERTY  
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82°00'



**North American Miogeocline**

Pre-Triassic sedimentary and volcanic

**Slide Mountain Terrane**

Chert, ultramafic, greenstone, metavolcanics, and carbonate rocks

**Yukon-Tanana Terrane**

Paleozoic Metaplutonic Rocks

Paleozoic Layered Metamorphic Sequence

**Units common to all three terranes**

Young Volcanic Rocks

Mesozoic Plutonic Rocks

Mesozoic Clastic Rocks

Geological contacts

Steep fault

Thrust fault

Properties held by Expatriate Resources Ltd.

RED LINE  
PROPERTY

TINTINA FAULT ZONE - 450 km RIGHT LATERAL OFFSET

FINLAYSON LAKE FAULT ZONE - NORTHEASTERN LIMIT OF FAVORABLE ROCKS

Kudz Za Kayoh Deposit  
Wolverine Zone



(quartz monzonite). Most contacts between metaplutonic rocks and the Layered Metamorphic Sequence are foliaform.

Both the Layered Metamorphic Sequence and the metaplutonic rocks were intensely deformed (F1) during Permian or Early Triassic time. This event resulted in pervasive foliation that usually parallels subhorizontal or shallow-dipping compositional layering. The F1 deformation was accompanied by middle greenschist to middle amphibolite facies regional metamorphism. A second phase of deformation (F2) is observed locally but appears to have been a relatively minor event.

Slide Mountain Terrane consists of ophiolitic assemblages that are most abundant within the Campbell Range Belt but also appears as imbricate slices along thrust faults elsewhere in the allochthon. The Campbell Range Belt is up to 25 km wide and forms the northeastern edge of the allochthon. It contains relatively unmetamorphosed but strongly folded and imbricated cherts with mafic and felsic volcanics, massive greenstone and serpentinite. Thrust slices elsewhere in the allochthon are also unmetamorphosed but typically contain a higher proportion of mafic to ultramafic plutonic rocks. Fossils in the cherts have been dated as Late Pennsylvanian to Early Permian while the mafic and ultramafic rocks are Late Devonian. Slide Mountain rocks do not exhibit the F1 foliation characteristic of the Yukon-Tanana Layered Metamorphic Sequence and metaplutonic rocks.

The remaining three units are all younger and unmetamorphosed. They are found in both Yukon-Tanana and Slide Mountain Terranes. Mesozoic Clastic Rocks are Late Triassic immature sediments containing cobbles derived from both Yukon-Tanana and Slide Mountain. Mesozoic Plutonic Rocks include a number of Early Jurassic mafic to intermediate plutons plus scattered Late Cretaceous quartz monzonite stocks. Major thrust faults in the district post-date the Early Jurassic plutons but pre-date the Late Cretaceous quartz monzonite. This structural event is believed to have occurred during accretion of the allochthon to the North American craton because the thrusts cut the miogeoclinal rocks as well as the allochthonous rocks. Transcurrent movement on the Tintina Fault Zone occurred soon after the thrust faults. Young Volcanic Rocks unconformably overlie the other units and consist of Late Cretaceous to Tertiary felsic volcanic flows and volcanoclastic deposits. They are usually found in close proximity to the Tintina Fault Zone.

## REGIONAL MINERALIZATION

A total of fifty-one mineral occurrences have been reported within the Finlayson Allochthon (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 may also be present (Morin, 1981 and Johnston and Mortensen, 1994). Two occurrences have definite economic potential, the Kudz Ze Kayah and Wolverine Deposits (Figure 4). These occurrences are "type-deposits" for Expatriate's exploration elsewhere in the district and are briefly described below.

The Kudz Ze Kayah (ABM) Deposit lies within Yukon-Tanana Terrane near the centre of the allochthon (Cominco Exploration, 1995; Whiteway, 1995) some 14 km west-northwest of the Red Line property. It is a volcanogenic massive sulphide deposit hosted by 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 and 11 km due east of the Red Line property near a contact between Yukon-Tanana and overlying Slide Mountain rocks. It also lies within the middle unit of the Layered Metamorphic Sequence. The deposit is hosted by rhyolitic metavolcanics and argillites and consists primarily of semi-massive to massive sulphides. Pyrite and sphalerite occur with varying amounts of galena, chalcopyrite, tetrahedrite and native gold. The surface expression of the deposit is marked by a vegetation kill zone containing weakly malachite-stained schist. Westmin has intersected the deposit in fifteen consecutive diamond drill holes, tracing it 400 m along strike and up to 250 m downdip. It averages 6.2 m thick and dips shallowly to the north. Although the deposit is blind to surface it is open downdip and along strike in both directions. Wolverine contains significantly more zinc and precious metals than Kudz Ze Kayah. The weighted average grade for intersections reported to date is 11.82% zinc, 1.05% copper, 1.53% lead, 442.8 g/t silver and 2.48 g/t gold (Westmin News Release, November 30, 1995). Soil geochemistry outlined weakly to moderately anomalous values along the projected surface trace of the deposit while magnetic surveys easily traced a laterally extensive, banded iron formation which occurs about 80 m up-section from the massive sulphide horizon. Interpretation of electromagnetic results is complicated by the presence 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 Geological Survey of Canada (Hornbrook and Friske, 1988 and 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 volcanogenic massive sulphide deposits such as copper, lead, zinc, silver and arsenic. Anomalous results were obtained from creeks draining some previously known volcanogenic massive sulphide 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 provides 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> (ppm)	<u>Anomalous Thresholds</u>			<u>Peak Value</u> (ppm)
		<u>Weak</u> (ppm)	<u>Moderate</u> (ppm)	<u>Strong</u> (ppm)	
Copper	25	50	100	200	1720
Lead	30	50	100	200	>4000
Zinc	80	200	500	1000	>4000
Molybdenum	<1	2	5	10	65

The Red Line property was staked to protect a target selected from the Archer Cathro data. Peak values from 1973 sampling at Red Line were 68 ppm copper, 290 ppm lead, 1080 ppm zinc and 10 ppm molybdenum.

Copper, lead and zinc are major metals in most volcanogenic massive sulphide 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 (H. Meade, pers. comm., 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 Geological Survey of Canada 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 allochthon 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 80 m up-section from the massive sulphide mineralization. Magnetite is also a significant constituent of the mineralization at Kudz Ze Kayah. The Red Line property lies at the northern end of an aeromagnetic anomaly with a lesser magnitude but the same orientation as the anomaly coincident with the Wolverine Deposit to the northeast.

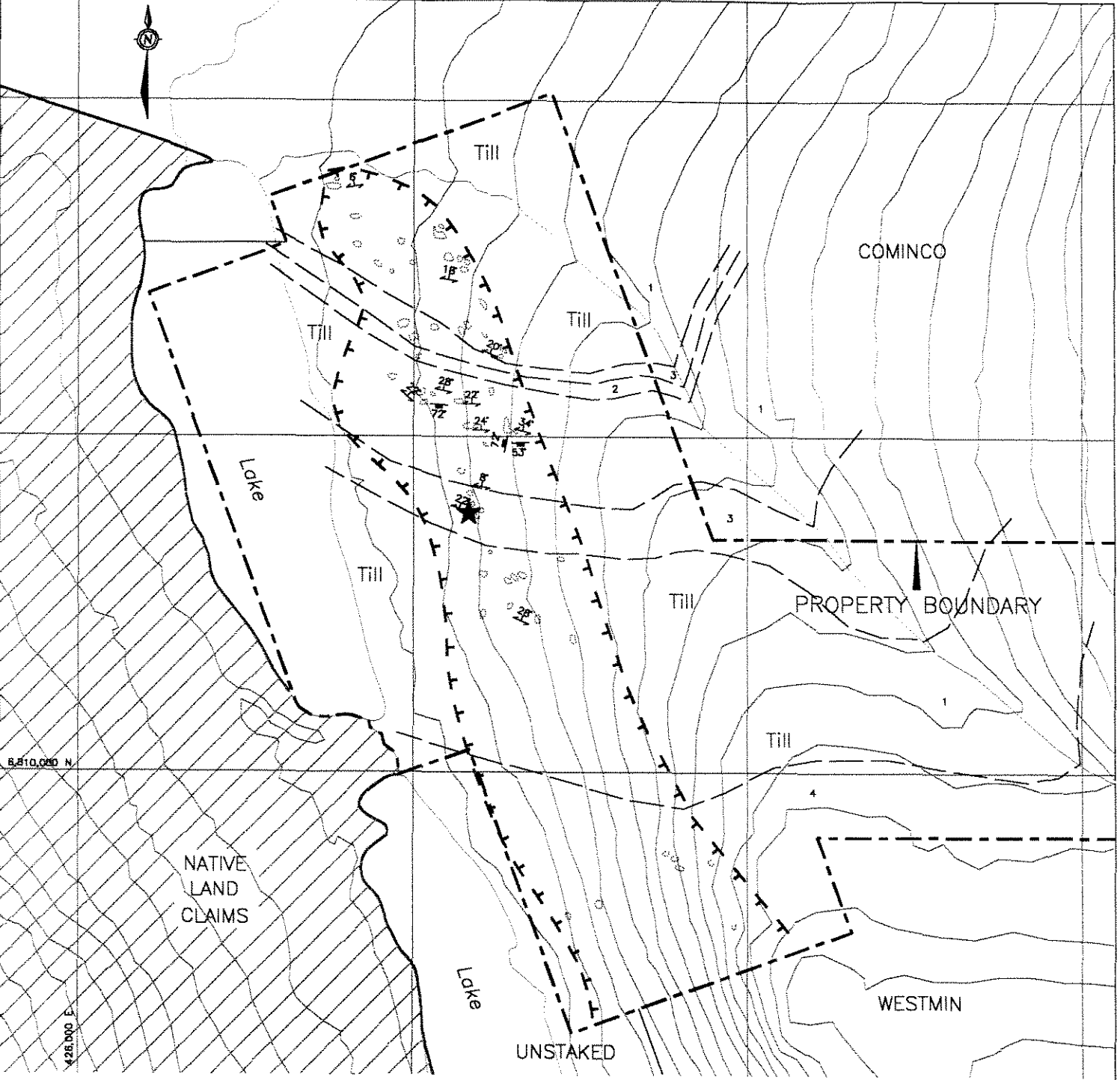
## PROPERTY GEOLOGY

Bedrock exposure is limited to a north-trending band of glacially scoured outcrops in the western part of the property, as illustrated on Figure 5. Most rocks are well foliated with an average orientation of  $110^{\circ}/28^{\circ}\text{N}$ . Individual strikes and dips range from  $080$  to  $132^{\circ}$  and  $06$  to  $38^{\circ}\text{N}$ , respectively. Four main rock types recognized on the property are described below. The first three are part of the Paleozoic Layered Metamorphic Sequence while the last belongs to the Paleozoic Metaplutonic Rocks.

Quartz-sericite schist is the most abundant unit comprising about 75% of the outcrops. Rocks are fine to medium grained and moderately to strongly foliated. Most contain weakly to moderately abundant foliaform limonite. Some float specimens collected near the lakeshore contain up to 10% disseminated pyrite. In places this unit exhibits poorly developed quartz augens. Unmineralized white quartz veins and veinlets with little to no adjacent wallrock alteration were noted in a few areas.

Quartz-sericite-biotite schist is well foliated, fine grained and commonly tan to rusty brown weathering. Quartz grains are typically elongate parallel to foliation. Pyrite is rare but where observed occurs as disseminations or foliaform bands.

Biotite-quartz-chlorite schist is dark green to black and moderately to strongly foliated. Biotite and chlorite comprise greater than 60% of the rocks, which occur in two recessive horizons approximately 400 m apart. The rocks are moderately oxidized on weathered surfaces and nearly black where fresh. A soil sample pit in the vicinity of the southern horizon produced



- $\frac{S6}{\downarrow}$  Foliation orientation with dip
- $\frac{N7}{\downarrow}$  Joint orientation with dip
- $\text{T T}$  Limit of outcrop
- $\circ$  Outcrop
- $\star$  Boxwork limonite
- 1 Quartz-sericite schist
- 2 Quartz-sericite-biotite schist
- 3 Biotite-quartz-chlorite schist
- 4 Muscovite-biotite-quartz augen gneiss

FIGURE 5  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY GEOLOGY**  
 RED LINE PROPERTY  
 EXPATRIATE RESOURCES LTD.



moderately abundant, yellow-brown limonite boxwork float. The limonite and some associated wallrock float are weakly to moderately magnetic. A sample (935605) of limonite boxwork was sent to Chemex Labs Ltd. for Induced Coupled Plasma (ICP) 32 element rock geochemical analysis. It was also analyzed for gold by atomic absorption. The results were background or weakly anomalous for all metals, as shown in Appendix III.

Muscovite-biotite-quartz augen gneiss occurs as float in the southwest corner of the property. It is medium to coarse grained, grey weathering and forms blocky talus.

**PROPERTY GEOCHEMISTRY**

Grid soil sampling was conducted over the Red Line 1-12 claims between September 6 and 10, 1995. A compass-controlled baseline was established at 340° approximately paralleling a claim line in the western part of the claim block. The baseline was slope-corrected and marked at 100 m intervals with 1 m lath bearing aluminum tags inscribed with grid coordinates and sample numbers. Soil sample lines were run perpendicular to the baseline and marked with 0.5 m lath in the same fashion as baseline stations.

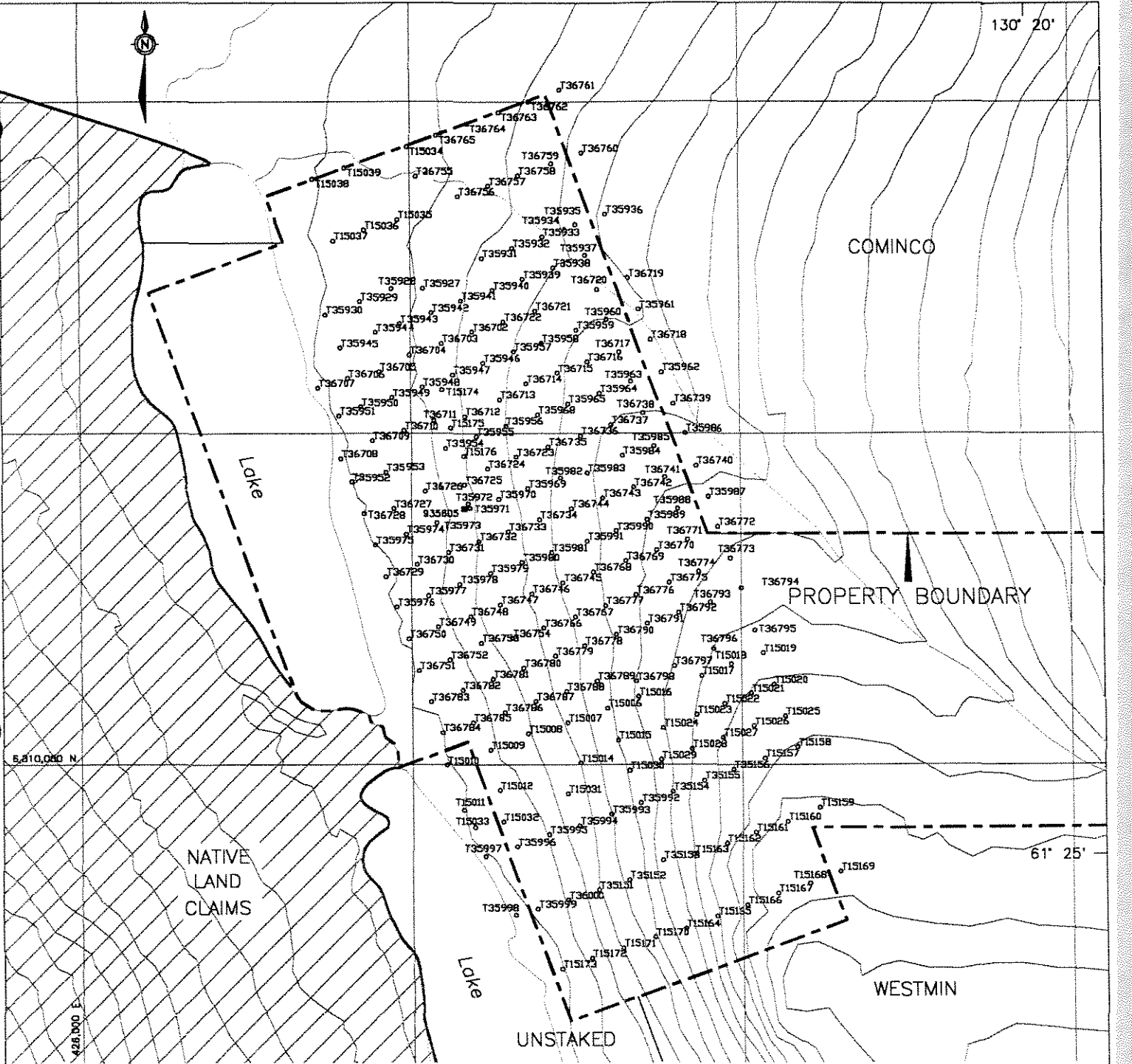
A total of 229 soil samples was taken (locations shown on Figure 6) and sent to Chemex Labs Ltd. where they were screened to -80 mesh, digested in nitric-aqua regia and geochemically analyzed for 32 elements using the ICP technique. Sixteen soils from the core of the grid were also analyzed for gold by fire assay preparation and atomic absorption finish. Certificates of Analysis are listed in Appendix III. Results for eight indicator elements are plotted on Figures 7 to 14 while anomalous thresholds and peak values are as follows.

**ANOMALOUS THRESHOLDS AND PEAK VALUES**

<u>Element</u>	<u>Threshold Values (ppm)</u>				<u>Peak Value (ppm)</u>
	<u>Weak</u>	<u>Moderate</u>	<u>Strong</u>	<u>Extreme</u>	
Copper	50	100	200	500	1120
Lead	50	NA*	NA*	NA*	80
Zinc	200	500	1000	NA*	1470
Silver	1	2	NA*	NA*	3
Molybdenum	2	5	10	NA*	38
Manganese	500	1000	NA*	NA*	1120
Arsenic	20	NA*	NA*	NA*	48
Antimony	2	NA*	NA*	NA*	4

\*NA = not applicable

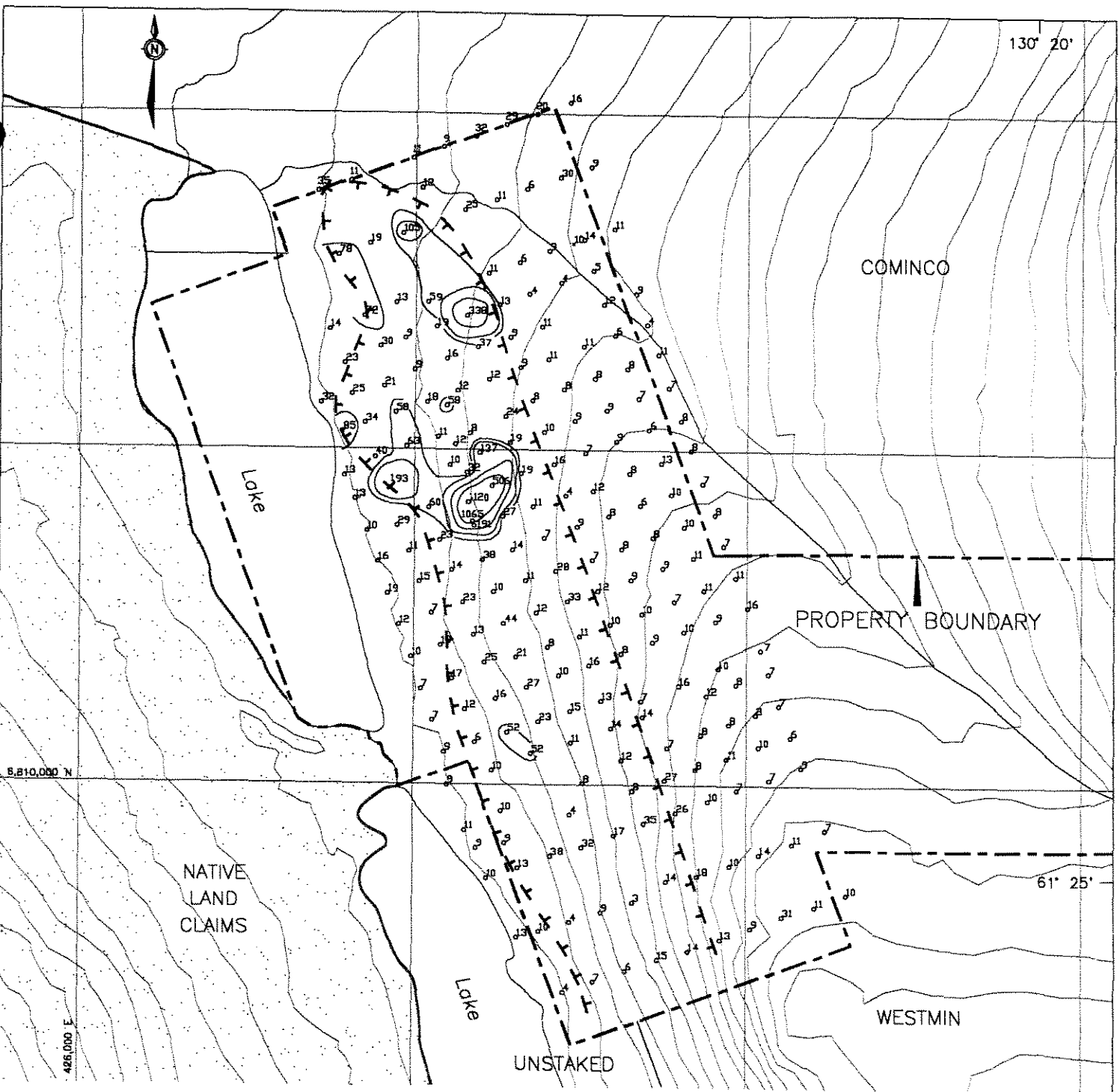
130° 20'



- T15008 Soil sample location with sample number
- 935605 Rock sample location with sample number

FIGURE 6  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SAMPLE LOCATION**  
 RED LINE PROPERTY  
 EXPATRIATE RESOURCES LTD.



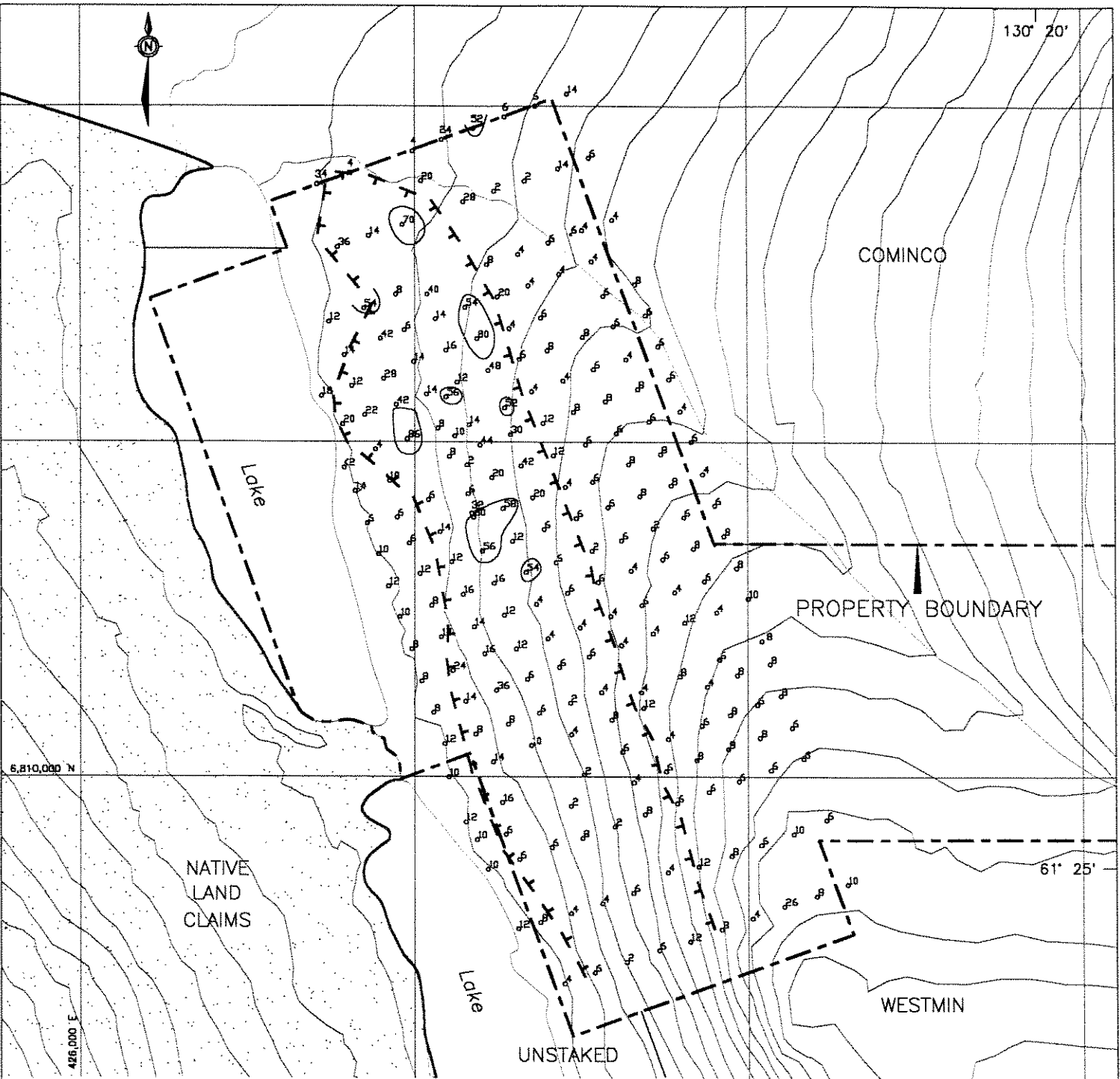


- T T Limit of outcrop
- <sup>98</sup> Sample location with copper value in ppm
- ≥ 500 ppm Cu
- ≥ 200 < 500 ppm Cu
- ≥ 100 < 200 ppm Cu
- ≥ 50 < 100 ppm Cu

FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**COPPER GEOCHEMISTRY**  
 RED LINE PROPERTY  
 EXPATRIATE RESOURCES LTD.



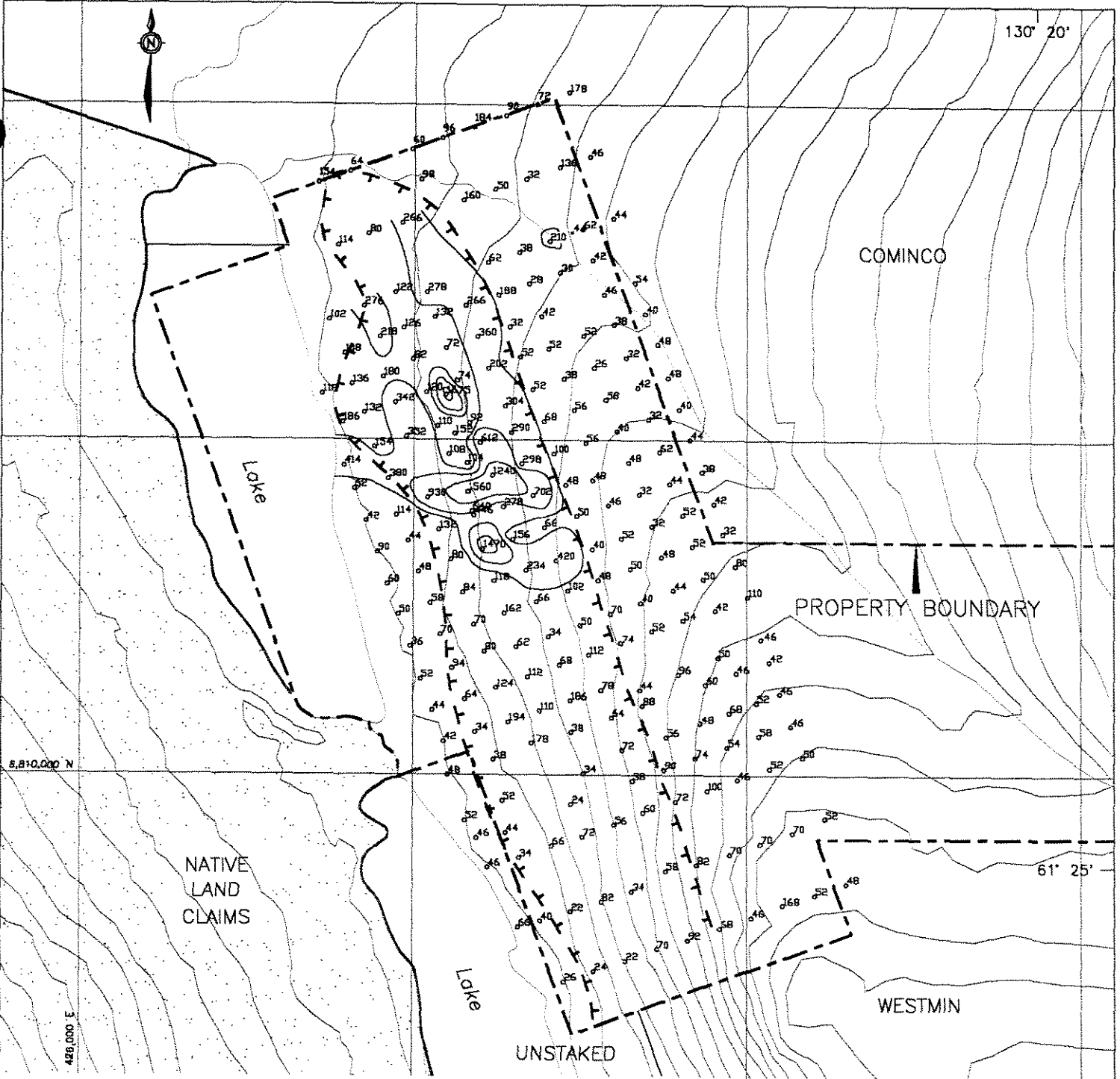


- TT Limit of outcrop
- 98 Sample location with lead value in ppm
- █ ≥ 200 ppm Pb
- █ ≥ 100 < 200 ppm Pb
- █ ≥ 50 < 100 ppm Pb

FIGURE 8  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**LEAD GEOCHEMISTRY**  
 RED LINE PROPERTY  
 EXPATRIATE RESOURCES LTD.





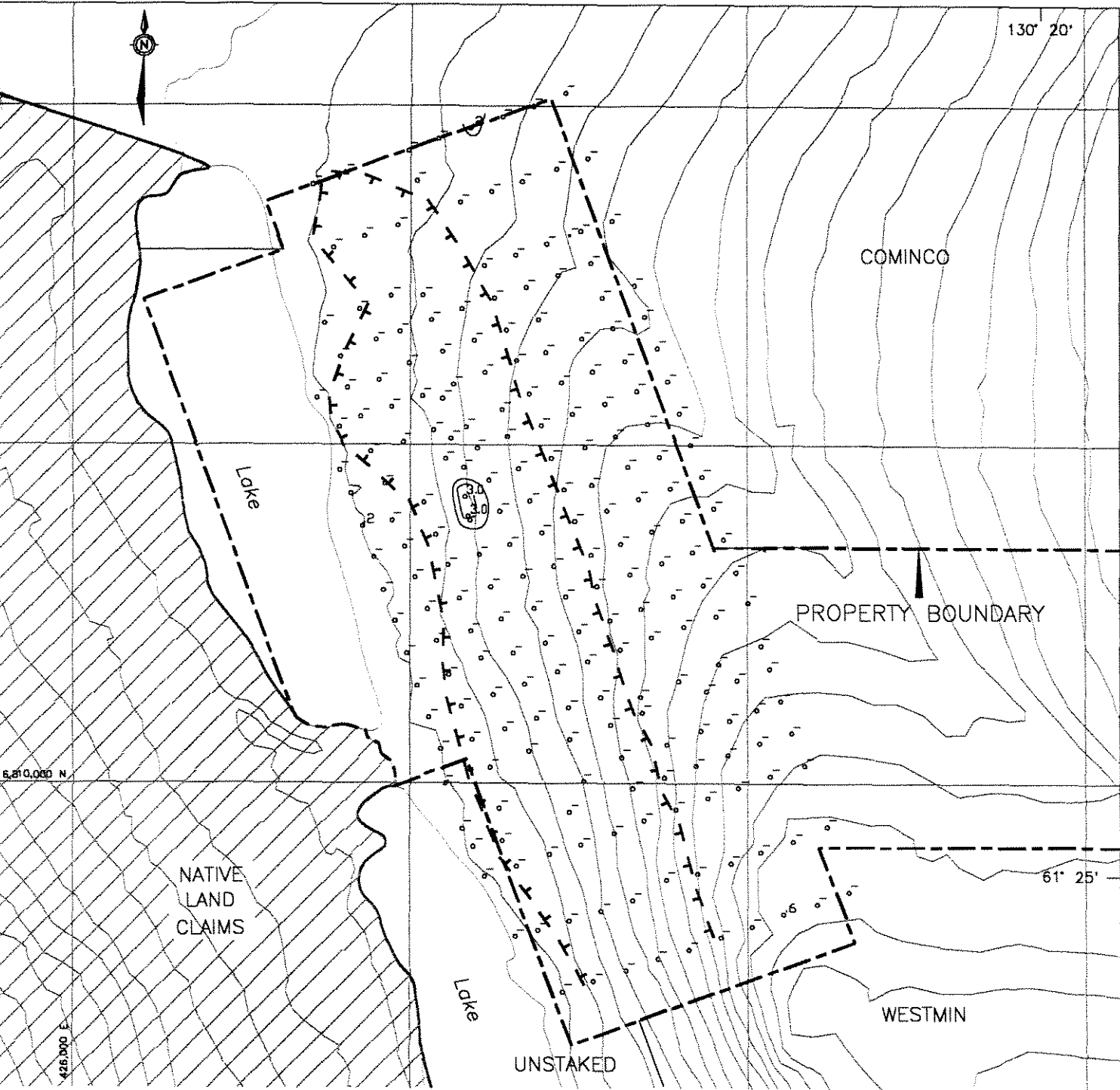
- T T Limit of outcrop
- <sup>98</sup> Sample location with zinc value in ppm
- ≥ 1000 ppm Zn
- ≥ 500 < 1000 ppm Zn
- ≥ 200 < 500 ppm Zn

FIGURE 9  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# ZINC GEOCHEMISTRY

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- TT Limit of outcrop
- Sample location with silver value less than detection limit
- <sup>98</sup> Sample location with silver value in ppm
- ≥ 5 ppm Ag
- ≥ 2 < 5 ppm Ag
- ≥ 1 < 2 ppm Ag

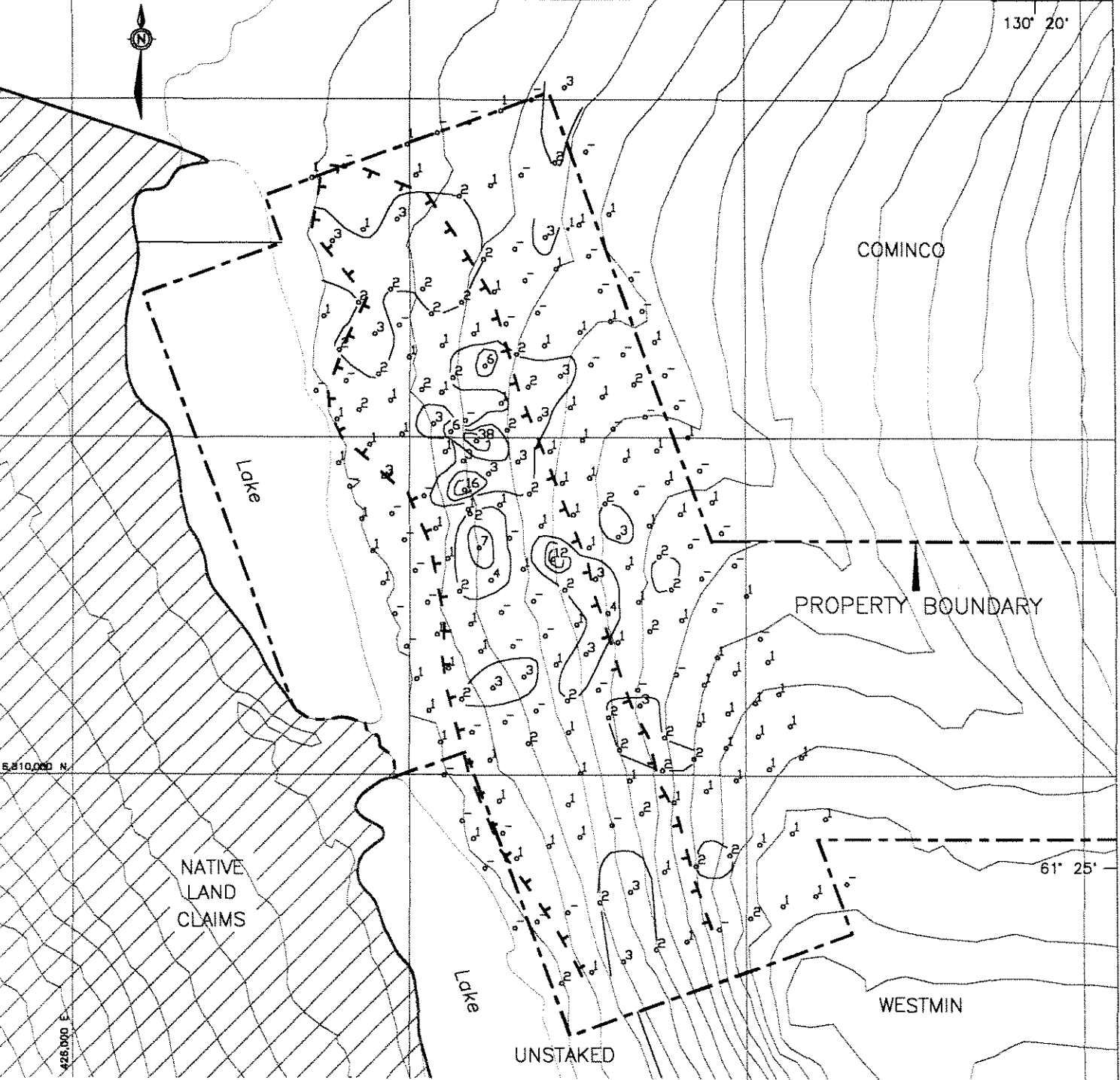
FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# SILVER GEOCHEMISTRY

RED LINE PROPERTY  
EXPATRIATE RESOURCES LTD.





- TT Limit of outcrop
- Sample location with molybdenum value less than detection limit
- <sup>98</sup> Sample location with molybdenum value in ppm
- ≥ 5 ppm Mo
- ≥ 2 < 5 ppm Mo
- ≥ 1 < 2 ppm mo

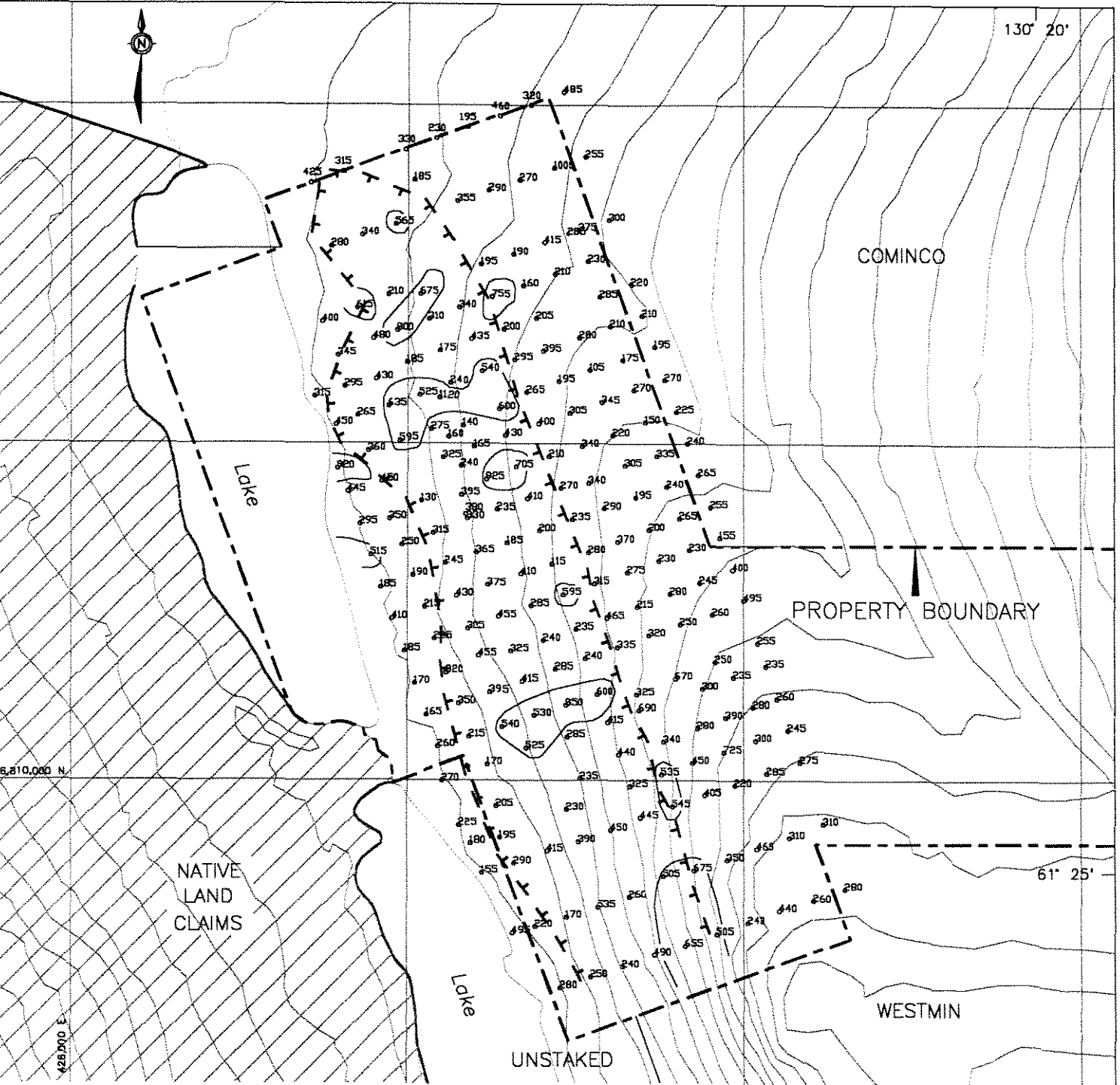
FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## MOLYBDENUM GEOCHEMISTRY

RED LINE PROPERTY  
EXPATRIATE RESOURCES LTD.

0 100 200 400 600 800 1000 m



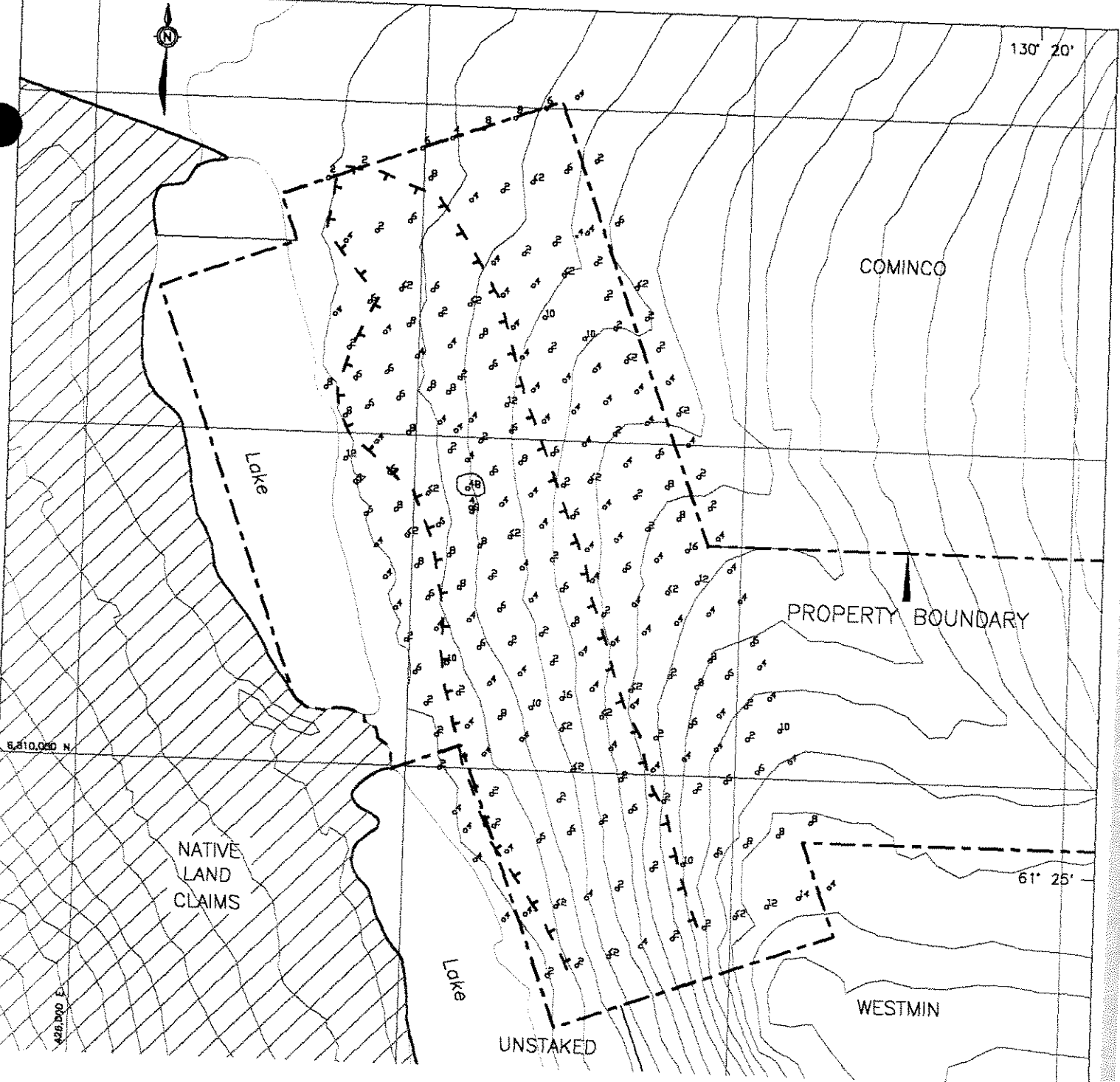
- TT Limit of outcrop
- <sup>350</sup> Sample location with manganese value in ppm
- ≥ 2000 ppm Mn
- ≥ 1000 < 2000 ppm Mn
- ≥ 500 < 1000 ppm Mn

FIGURE 12  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# MANGANESE GEOCHEMISTRY

RED LINE PROPERTY  
EXPATRIATE RESOURCES LTD.

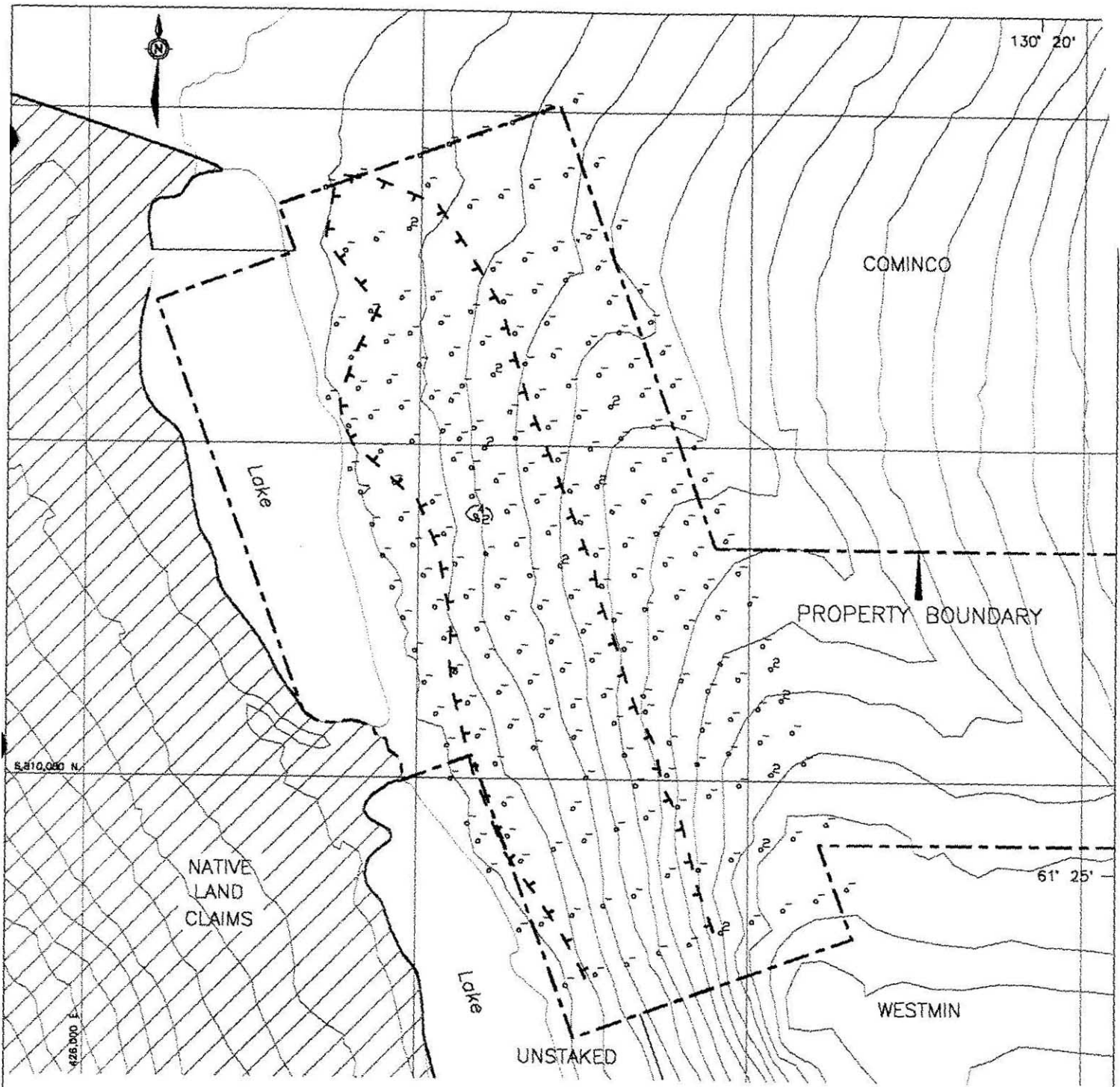




- TT Limit of outcrop
- <sup>35</sup> Sample location with arsenic value in ppm
- ≥ 100 ppm As
- ≥ 50 < 100 ppm As
- ≥ 20 < 50 ppm As

FIGURE 13  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC GEOCHEMISTRY**  
 RED LINE PROPERTY  
 EXPATRIATE RESOURCES LTD.





- TT Limit of outcrop
- Sample location with antimony value less than detection limit
- 98 Sample location with antimony value in ppm

- ≥ 10 ppm Sb
- ≥ 5 < 10 ppm Sb
- ≥ 2 < 5 ppm Sb

FIGURE 14  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**ANTIMONY GEOCHEMISTRY**  
 RED LINE PROPERTY  
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Most anomalous values are restricted to the northern half of the glacial scoured zone in the centre of the grid. Peak values for copper, zinc, molybdenum, silver and lead are clustered in the immediate vicinity of the recessive linear from which weakly magnetic limonite boxwork float was taken. Moderately anomalous values are scattered across the valley bottom north of the linear. The direction of glacial movement was northerly and scattered values probably represent down-ice dispersion. Arsenic, antimony and manganese response is relatively subdued and all gold values were below detection limit. Copper results are particularly significant as they include the second and third highest soil values Archer Cathro has ever obtained in the Finlayson Lake area. The highest regional value was from a sample taken directly on the malachite-stained, vegetation kill zone at the Wolverine Deposit (Cathro, 1973).

The area of metal enrichment at Red Line is best defined by the copper and zinc response, and is approximately 500 m long and 200 m wide. The strongest values for the major indicator elements are found in a 400 by 100 m area in the centre of the grid. These anomalies are open along strike in both directions under till cover.

## CONCLUSIONS AND RECOMMENDATIONS

The Red Line property is largely underlain by felsic metavolcanics of the Layered Metamorphic Sequence, the same unit which hosts the Kudz Ze Kayah and Wolverine Deposits. Soil geochemistry outlined scattered anomalous response which appears to be down-ice dispersion from a buried source within a recessive linear that parallels foliation in the surrounding wallrocks. The linear is associated with strongly anomalous geochemical results that project under till cover in both directions. Limonite float discovered in the linear is weakly magnetic but returned near background values for all metals. Magnetic horizons at Wolverine are also barren and occur about 80 m upsection from the massive sulphide mineralization.

Geophysical surveys defined a 700 m long magnetic high which coincides with an east-west trending Maxmin conductor. The geophysical anomalies overlie the area of maximum geochemical response. A diamond drill program consisting of three or four holes should be carried out to test the coincident geochemical and geophysical targets.

Respectfully submitted,

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 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**

**FIELD REPORT - RED LINE MAXMIN/MAGNETOMETER SURVEY**

## MEMORANDUM

**AMEROK GEOSCIENCES LTD.**

Site 6, Comp 11

Whitehorse, Yukon

Y1A 5V8

(403) 668-7672 (Phone/Fax)

amerok@yknet.yk.ca

March 15, 1996

File: 96-4

**To:** Doug Eaton  
Archer, Cathro & Associates (1981) Ltd.

**From:** Mike Power

**Re:** Field Report - Redline Maxmin/mag Survey

---

The following is a field report on a Maxmin I-10 / magnetometer survey conducted on the Redline Property between February 23 and March 3, 1996.

**a. Personnel and equipment.** The geophysical surveys were conducted by M. Power and P. Chidzey. The crew was equipped with a Maxmin I-10 (s/n 10357), Maxmin data computer (MMC), two Omni Plus magnetometers and an Omni IV base station magnetometer. Locations were fixed with a Trimble Scout GPS receiver. Data was downloaded to and processed on a 486DX66 laptop computer.

**b. Survey parameters.** A survey grid consisting of 12.7 line-km was slashed out on the property. The base line is oriented at 90° and survey lines are turned from it at 100 m intervals. Survey lines were picketed at 25 m intervals with full length lathe. All stations were marked with a "W" to differentiate the winter geophysical grid from the pre-existing soil geochemical grid. The base line was slope corrected and the survey lines were straight chained. The Maxmin survey was conducted using a 100 m coil spacing and frequencies of 220, 880 and 3520 Hz. The operator recorded the station-to-station slope in the MMC and corrected the data for short or misaligned coils during post-acquisition data processing. The magnetometer survey was conducted using a 12.5 m station spacing and the base station cycled at 15 s. The base station was installed near camp at L10200E 5200N.

**c. Preliminary results.** Stacked profile plots of the in-phase (solid) and quadrature (dashed) component for each frequency are attached. Conductor axes are indicated by a thick black line on the 3520 Hz stacked plot. The total magnetic field data was contoured at a 20 nT interval and trend rotated to force contouring to follow the mean trend of the magnetic high dominating the map (approximately 105°). The major conductor axis evident in the 3520 Hz data is also shown on the magnetic field map.

The EM survey located a relatively weak conductor roughly coincident with the magnetic field high extending from L9300E 5250N to L10000E 5150N. There is little low frequency response indicating that the target is relatively non-conductive. The centre of the anomaly at L9600E 5175N is roughly at UTM 9V 427050E 6810850N .

Final corrections, reorientation of the grid with GPS data and interpretation will be included in the final report.

Respectfully Submitted,  
**AMEROK GEOSCIENCES LTD.**

A handwritten signature in black ink, appearing to read 'M. A. Power', with a large, stylized loop at the top.

M. A. Power P.Geo.

**APPENDIX III**  
**CERTIFICATES OF ANALYSIS**



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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Project : F.P.-RED LINE  
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Total Pages : 1  
Certificate Date: 25-OCT-95  
Invoice No. : I9531312  
P.O. Number :  
Account : MPO

## CERTIFICATE OF ANALYSIS

### A9531312

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
935605	205	226	5	0.4	2.39	6	40	< 0.5	< 2	1.25	< 0.5	18	59	416	1.77	< 10	1	0.03	< 10	0.07	40

CERTIFICATION:

*Hart Bickler*



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Total Pages : 1  
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Account : MPO

## CERTIFICATE OF ANALYSIS

### A9531312

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
935605	205	226	2	0.34	142	60	52	< 2	< 1	74	0.02	< 10	< 10	7	< 10	52

CERTIFICATION:

*Hart Bichler*



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Project : F.P. REDLINE  
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## CERTIFICATE OF ANALYSIS A9528566

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
T15006	203	205	< 0.2	1.89	< 2	170	0.5	< 2	0.43	< 0.5	10	257	14	3.18	< 10	< 1	0.75	20	1.02	415	2
T15007	203	205	< 0.2	1.52	< 2	150	0.5	< 2	0.36	< 0.5	7	309	11	2.25	< 10	< 1	0.47	30	0.70	285	1
T15008	203	205	< 0.2	2.96	4	280	1.0	< 2	0.67	0.5	10	161	52	3.61	< 10	< 1	0.74	110	0.90	525	2
T15009	203	205	< 0.2	1.23	4	120	< 0.5	< 2	0.46	< 0.5	3	229	10	1.77	< 10	< 1	0.27	20	0.60	170	1
T15010	203	205	< 0.2	1.32	2	100	0.5	< 2	0.32	< 0.5	8	279	9	2.09	< 10	< 1	0.27	20	1.09	270	< 1
T15011	203	205	< 0.2	1.50	4	130	0.5	< 2	0.33	< 0.5	7	226	11	2.15	< 10	< 1	0.23	30	0.92	225	< 1
T15012	203	205	< 0.2	1.62	2	120	0.5	< 2	0.32	< 0.5	7	256	10	2.59	< 10	< 1	0.23	20	0.78	205	1
T15014	203	205	< 0.2	1.23	< 2	130	0.5	< 2	0.37	< 0.5	6	261	8	1.85	< 10	< 1	0.39	30	0.63	235	1
T15015	203	205	< 0.2	2.30	4	220	0.5	< 2	0.56	< 0.5	10	145	12	3.68	< 10	< 1	0.81	30	1.24	440	2
T15016	203	205	< 0.2	2.37	4	210	1.0	< 2	0.48	< 0.5	14	283	14	4.02	10	< 1	0.84	20	1.20	690	3
T15017	203	205	< 0.2	2.06	8	160	0.5	< 2	0.19	< 0.5	9	194	12	3.74	< 10	< 1	0.42	10	0.91	300	1
T15018	203	205	< 0.2	1.97	6	130	0.5	< 2	0.08	< 0.5	7	195	8	3.62	< 10	< 1	0.42	20	0.56	235	1
T15019	203	205	< 0.2	1.68	4	120	0.5	< 2	0.16	< 0.5	7	228	7	2.78	< 10	< 1	0.24	20	0.60	235	1
T15020	203	205	< 0.2	2.01	4	140	0.5	< 2	0.20	< 0.5	7	377	7	3.21	< 10	< 1	0.31	20	0.76	260	1
T15021	203	205	< 0.2	1.93	2	120	0.5	< 2	0.20	< 0.5	7	292	8	3.22	< 10	< 1	0.41	20	0.75	280	1
T15022	203	205	< 0.2	1.83	4	180	0.5	< 2	0.36	< 0.5	8	319	8	2.99	< 10	< 1	0.46	20	0.77	390	1
T15023	203	205	< 0.2	1.90	6	150	0.5	< 2	0.32	< 0.5	7	299	8	2.59	< 10	< 1	0.43	30	0.89	280	1
T15024	203	205	< 0.2	1.70	2	140	0.5	< 2	0.32	< 0.5	7	314	7	2.63	< 10	< 1	0.69	20	0.90	340	2
T15025	203	205	< 0.2	1.72	10	110	0.5	< 2	0.19	< 0.5	7	345	6	2.82	< 10	< 1	0.29	20	0.78	245	1
T15026	203	205	< 0.2	2.30	2	150	1.0	< 2	0.27	< 0.5	9	332	10	3.40	< 10	< 1	0.46	20	0.80	300	1
T15027	203	205	< 0.2	1.82	4	160	0.5	< 2	0.26	< 0.5	8	316	11	2.73	< 10	< 1	0.42	30	0.72	725	1
T15028	203	205	< 0.2	2.05	4	230	0.5	< 2	0.43	< 0.5	8	270	8	3.28	< 10	< 1	0.64	20	0.91	450	2
T15029	203	205	< 0.2	2.63	4	210	1.0	< 2	0.92	< 0.5	9	195	27	3.63	< 10	< 1	0.80	70	1.19	535	2
T15030	203	205	< 0.2	1.40	2	120	0.5	< 2	0.46	< 0.5	6	296	8	2.43	< 10	< 1	0.53	20	0.74	325	1
T15031	203	205	< 0.2	0.92	2	80	< 0.5	< 2	0.33	< 0.5	5	196	4	1.67	< 10	< 1	0.27	20	0.55	230	1
T15032	203	205	< 0.2	1.07	2	70	< 0.5	< 2	0.27	< 0.5	6	188	9	1.81	< 10	< 1	0.18	20	0.78	195	< 1
T15033	203	205	< 0.2	1.37	4	90	< 0.5	< 2	0.16	< 0.5	6	169	9	2.46	< 10	< 1	0.16	10	0.77	180	1
T15034	203	205	< 0.2	1.73	6	140	0.5	< 2	0.40	< 0.5	7	133	11	2.78	< 10	< 1	0.40	30	0.87	330	1
T15035	203	205	< 0.2	6.28	6	1270	1.5	8	0.19	< 0.5	22	105	105	9.82	20	< 1	1.94	20	3.17	565	3
T15036	203	205	< 0.2	2.34	2	180	0.5	< 2	0.31	< 0.5	10	180	19	3.54	< 10	< 1	0.45	60	1.24	340	1
T15037	203	205	< 0.2	2.63	4	200	0.5	< 2	0.23	< 0.5	7	221	78	4.72	10	< 1	0.32	20	1.03	280	3
T15038	203	205	< 0.2	1.82	2	180	0.5	< 2	0.50	< 0.5	12	147	35	3.22	< 10	< 1	0.54	60	1.32	425	1
T15039	203	205	< 0.2	1.66	2	220	0.5	< 2	0.38	< 0.5	8	146	11	2.49	< 10	< 1	0.40	30	0.86	315	< 1
T15040	203	205	< 0.2	1.07	4	120	0.5	< 2	0.40	< 0.5	6	193	14	1.75	< 10	< 1	0.32	30	0.60	330	1
T35151	203	205	< 0.2	2.45	4	180	0.5	< 2	0.62	< 0.5	14	154	9	4.29	10	< 1	0.91	30	1.58	535	2
T35152	203	205	< 0.2	1.49	2	130	< 0.5	< 2	0.38	< 0.5	7	209	3	2.52	< 10	< 1	0.57	20	0.93	260	3
T35153	203	205	< 0.2	2.63	2	210	0.5	< 2	0.69	< 0.5	13	178	14	4.44	10	< 1	0.76	60	1.55	505	1
T35154	203	205	< 0.2	2.20	2	170	0.5	< 2	0.57	< 0.5	11	191	26	3.78	< 10	< 1	0.88	30	1.16	545	1
T35155	203	205	< 0.2	1.89	2	110	0.5	< 2	0.21	< 0.5	10	184	10	3.13	< 10	< 1	0.55	20	0.95	405	1
T35156	203	205	< 0.2	1.58	6	100	0.5	< 2	0.13	< 0.5	6	156	7	2.84	< 10	< 1	0.28	10	0.58	220	1

CERTIFICATION: Stuart Buchler



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## CERTIFICATE OF ANALYSIS A9528566

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T15007	203	205	0.06	20	240	4	< 2	3	14	0.13	< 10	< 10	43	< 10	38
T15008	203	205	0.05	37	750	10	< 2	7	27	0.11	< 10	< 10	50	< 10	178
T15009	203	205	0.04	21	430	14	< 2	2	17	0.11	< 10	< 10	39	< 10	38
T15010	203	205	0.03	65	590	10	< 2	3	14	0.12	< 10	< 10	39	< 10	48
T15011	203	205	0.04	46	580	12	< 2	3	15	0.13	< 10	< 10	42	< 10	52
T15012	203	205	0.02	44	550	16	< 2	3	14	0.13	< 10	< 10	47	< 10	52
T15014	203	205	0.04	18	230	2	< 2	3	12	0.11	< 10	< 10	31	< 10	34
T15015	203	205	0.02	21	800	6	< 2	6	16	0.23	< 10	< 10	65	< 10	72
T15016	203	205	0.04	27	570	12	< 2	7	17	0.27	< 10	< 10	82	< 10	88
T15017	203	205	0.02	25	410	4	< 2	4	9	0.21	< 10	< 10	72	< 10	60
T15018	203	205	0.02	21	290	8	< 2	3	7	0.17	< 10	< 10	63	< 10	46
T15019	203	205	0.02	37	350	8	< 2	3	8	0.11	< 10	< 10	43	< 10	42
T15020	203	205	0.05	41	300	8	< 2	3	11	0.15	< 10	< 10	56	< 10	46
T15021	203	205	0.05	25	300	6	< 2	4	9	0.21	< 10	< 10	58	< 10	52
T15022	203	205	0.06	25	690	8	< 2	4	14	0.17	< 10	< 10	65	< 10	68
T15023	203	205	0.06	39	230	6	< 2	4	15	0.16	< 10	< 10	49	< 10	48
T15024	203	205	0.04	21	200	4	< 2	5	13	0.22	< 10	< 10	58	< 10	56
T15025	203	205	0.05	39	240	6	< 2	3	11	0.16	< 10	< 10	58	< 10	46
T15026	203	205	0.05	35	540	8	< 2	4	11	0.17	< 10	< 10	53	< 10	58
T15027	203	205	0.07	27	500	8	< 2	4	13	0.15	< 10	< 10	49	< 10	54
T15028	203	205	0.06	26	450	8	< 2	6	19	0.21	< 10	< 10	55	< 10	74
T15029	203	205	0.05	32	790	6	< 2	8	27	0.18	< 10	< 10	63	< 10	90
T15030	203	205	0.08	18	570	4	< 2	4	14	0.16	< 10	< 10	43	< 10	38
T15031	203	205	0.04	16	350	2	< 2	2	12	0.10	< 10	< 10	27	< 10	24
T15032	203	205	0.02	44	620	6	< 2	2	10	0.09	< 10	< 10	32	< 10	44
T15033	203	205	0.02	42	340	10	< 2	2	8	0.11	< 10	< 10	45	< 10	46
T15034	203	205	0.02	16	640	4	< 2	4	13	0.15	< 10	< 10	42	< 10	60
T15035	203	205	< 0.01	24	680	70	< 2	21	10	0.39	< 10	< 10	211	< 10	266
T15036	203	205	0.02	28	490	14	< 2	6	13	0.23	< 10	< 10	69	< 10	80
T15037	203	205	0.02	26	260	36	< 2	4	16	0.24	< 10	< 10	84	< 10	114
T15038	203	205	0.01	51	840	34	< 2	5	20	0.17	< 10	< 10	54	< 10	154
T15039	203	205	0.02	13	810	4	< 2	3	14	0.15	< 10	< 10	40	< 10	64
T15040	203	205	0.03	27	510	6	< 2	2	13	0.08	< 10	< 10	27	< 10	38
T35151	203	205	0.01	21	260	4	< 2	6	16	0.43	< 10	< 10	101	< 10	82
T35152	203	205	0.04	14	130	6	< 2	4	14	0.27	< 10	< 10	68	< 10	34
T35153	203	205	0.03	25	850	4	< 2	8	20	0.27	< 10	< 10	83	< 10	58
T35154	203	205	0.03	19	570	6	< 2	6	17	0.26	< 10	< 10	69	< 10	72
T35155	203	205	0.02	28	420	6	< 2	4	9	0.18	< 10	< 10	52	< 10	100
T35156	203	205	0.01	21	680	6	< 2	3	7	0.14	< 10	< 10	55	< 10	46

CERTIFICATION: *John A. Buchler*



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Project : F.P. REDLINE  
Comments:

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Invoice No. : 19528566  
P.O. Number :  
Account : MPO

## CERTIFICATE OF ANALYSIS

### A9528566

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
T15157	203	205	< 0.2	2.15	6	140	0.5	< 2	0.23	< 0.5	6	362	7	3.23	10	< 1	0.43	20	0.67	285	1
T15158	203	205	< 0.2	1.99	4	120	0.5	< 2	0.20	< 0.5	7	321	9	2.88	< 10	< 1	0.37	30	0.74	275	1
T15159	203	205	< 0.2	1.90	8	120	0.5	< 2	0.19	< 0.5	8	302	7	2.78	< 10	< 1	0.36	20	0.77	310	1
T15160	203	205	< 0.2	2.33	8	160	1.0	< 2	0.15	< 0.5	8	220	11	3.05	< 10	< 1	0.43	30	0.64	310	1
T15161	203	205	< 0.2	2.60	8	150	0.5	< 2	0.48	< 0.5	15	189	14	4.43	< 10	< 1	0.78	20	1.29	460	1
T15162	203	205	< 0.2	1.97	6	110	0.5	< 2	0.19	< 0.5	8	254	10	4.07	10	< 1	0.79	20	0.86	350	2
T15163	203	205	< 0.2	3.14	10	180	1.0	< 2	0.54	< 0.5	14	255	18	4.59	10	< 1	0.98	40	1.30	675	2
T15164	203	205	< 0.2	2.74	2	200	0.5	< 2	0.53	< 0.5	14	210	14	4.69	10	< 1	1.11	20	1.39	655	1
T15165	203	205	< 0.2	2.76	2	170	0.5	< 2	0.49	< 0.5	16	203	13	5.30	10	< 1	0.94	10	1.49	505	< 1
T15166	203	205	< 0.2	1.63	< 2	160	0.5	< 2	0.25	< 0.5	6	389	9	2.81	< 10	< 1	0.69	20	0.62	240	2
T15167	203	205	0.6	3.28	12	160	1.0	< 2	0.16	< 0.5	12	141	31	4.51	< 10	< 1	0.59	20	1.00	440	1
T15168	203	205	< 0.2	2.23	14	130	1.0	< 2	0.11	< 0.5	9	186	11	3.80	< 10	< 1	0.45	10	0.67	260	1
T15169	203	205	< 0.2	1.69	4	120	0.5	< 2	0.25	< 0.5	8	226	10	2.69	< 10	< 1	0.31	20	0.85	280	< 1
T15170	203	205	< 0.2	2.24	4	170	0.5	< 2	0.36	< 0.5	13	222	15	4.18	< 10	< 1	0.83	20	1.12	490	2
T15171	203	205	< 0.2	1.05	< 2	80	0.5	< 2	0.22	< 0.5	5	226	6	2.29	< 10	< 1	0.34	30	0.46	240	3
T15172	203	205	< 0.2	0.98	2	80	0.5	< 2	0.30	< 0.5	6	178	7	1.60	< 10	< 1	0.25	40	0.46	250	1
T15173	203	205	< 0.2	1.18	2	90	0.5	< 2	0.38	< 0.5	6	296	4	1.81	< 10	< 1	0.34	30	0.58	280	2
T15174	203	205	< 0.2	5.06	8	70	2.0	< 2	0.43	0.5	19	100	58	8.89	10	< 1	0.65	120	1.93	1120	1
T15175	203	205	< 0.2	1.08	4	60	< 0.5	< 2	0.13	1.0	3	210	12	2.87	< 10	< 1	0.33	20	0.33	160	6
T15176	203	205	< 0.2	1.34	4	320	< 0.5	2	0.09	< 0.5	< 1	123	32	5.75	< 10	< 1	1.12	50	0.43	240	3
T35927	203	205	< 0.2	3.07	6	270	1.0	< 2	0.95	0.5	16	153	59	5.43	10	< 1	0.82	60	1.62	675	2
T35928	203	205	< 0.2	2.22	< 2	290	0.5	< 2	0.42	< 0.5	7	272	13	3.46	10	< 1	0.50	30	1.03	210	2
T35929	203	205	< 0.2	2.85	6	180	0.5	< 2	0.23	0.5	14	209	72	4.41	< 10	< 1	0.55	60	1.46	615	2
T35930	203	205	< 0.2	1.77	4	150	0.5	< 2	0.48	< 0.5	11	201	14	3.44	< 10	< 1	0.52	20	1.19	400	1
T35931	203	205	< 0.2	1.75	4	100	0.5	< 2	0.11	< 0.5	6	203	11	3.10	< 10	< 1	0.31	10	0.59	195	2
T35932	203	205	< 0.2	1.46	2	110	0.5	< 2	0.15	< 0.5	4	150	6	2.24	< 10	< 1	0.36	10	0.62	190	< 1
T35933	203	205	< 0.2	1.31	2	130	< 0.5	< 2	0.37	0.5	9	311	9	2.32	< 10	< 1	0.40	10	0.72	415	3
T35934	203	205	< 0.2	1.53	4	140	0.5	< 2	0.29	< 0.5	8	217	10	2.50	< 10	< 1	0.40	20	0.77	285	1
T35935	203	205	< 0.2	1.56	4	140	< 0.5	< 2	0.35	< 0.5	6	173	14	2.61	< 10	< 1	0.51	20	0.80	375	1
T35936	203	205	< 0.2	1.39	6	100	0.5	< 2	0.39	< 0.5	8	233	11	2.30	< 10	< 1	0.37	20	0.86	300	1
T35937	203	205	< 0.2	1.56	2	100	0.5	< 2	0.22	< 0.5	6	183	5	2.18	< 10	< 1	0.40	10	0.77	230	< 1
T35938	203	205	< 0.2	1.14	< 2	90	0.5	< 2	0.34	< 0.5	4	149	4	1.83	< 10	< 1	0.27	30	0.61	210	1
T35939	203	205	< 0.2	1.21	4	70	0.5	< 2	0.33	< 0.5	3	120	4	1.77	< 10	< 1	0.23	10	0.43	160	< 1
T35940	203	205	< 0.2	3.19	4	210	0.5	< 2	0.43	< 0.5	11	81	13	6.23	10	< 1	0.36	20	1.35	755	1
T35941	203	205	< 0.2	2.38	< 2	210	1.0	< 2	1.10	< 0.5	10	126	338	3.55	< 10	< 1	0.62	340	0.91	340	2
T35942	203	205	< 0.2	2.62	2	290	0.5	< 2	0.30	< 0.5	8	119	19	3.88	< 10	< 1	0.47	20	1.20	310	2
T35943	203	205	< 0.2	5.95	8	540	1.0	< 2	1.76	< 0.5	34	248	9	6.66	10	< 1	1.08	10	3.54	800	< 1
T35944	203	205	< 0.2	3.01	4	160	0.5	< 2	0.20	0.5	9	97	30	5.13	< 10	< 1	0.46	20	1.16	480	3
T35945	203	205	< 0.2	2.56	2	130	0.5	< 2	0.36	< 0.5	8	167	23	4.76	< 10	< 1	0.61	20	1.29	345	2
T35946	203	205	< 0.2	2.35	6	150	< 0.5	< 2	0.59	< 0.5	9	120	12	4.79	< 10	< 1	0.64	10	1.29	540	6

CERTIFICATION:

*[Handwritten Signature]*



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### A9528566

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
T15157	203 205	0.07	24	350	6	2	4	12	0.19	< 10	< 10	66	< 10	52
T15158	203 205	0.04	31	170	6	< 2	3	12	0.18	< 10	< 10	54	< 10	50
T15159	203 205	0.03	39	300	6	< 2	3	10	0.13	< 10	< 10	45	< 10	52
T15160	203 205	0.01	23	370	10	< 2	4	10	0.14	< 10	< 10	48	< 10	70
T15161	203 205	0.01	31	910	6	2	10	14	0.31	< 10	< 10	98	< 10	70
T15162	203 205	0.01	17	380	8	< 2	7	10	0.30	< 10	< 10	108	< 10	70
T15163	203 205	0.06	24	460	12	< 2	9	18	0.31	< 10	< 10	99	< 10	82
T15164	203 205	0.02	26	590	12	< 2	9	18	0.37	< 10	< 10	110	< 10	92
T15165	203 205	< 0.01	19	200	8	2	15	13	0.52	< 10	< 10	178	< 10	68
T15166	203 205	0.06	17	300	4	< 2	5	13	0.23	< 10	< 10	70	< 10	46
T15167	203 205	0.01	39	450	26	< 2	7	13	0.21	< 10	< 10	81	< 10	168
T15168	203 205	0.01	28	340	8	< 2	4	9	0.15	< 10	< 10	51	< 10	52
T15169	203 205	0.02	40	520	10	< 2	3	10	0.13	< 10	< 10	41	< 10	48
T15170	203 205	0.01	27	260	6	< 2	8	12	0.26	< 10	< 10	89	< 10	70
T15171	203 205	0.04	16	260	2	< 2	2	9	0.08	< 10	< 10	26	< 10	22
T15172	203 205	0.03	20	440	6	< 2	2	12	0.07	< 10	< 10	23	< 10	24
T15173	203 205	0.06	22	330	4	< 2	2	17	0.10	< 10	< 10	27	< 10	26
T15174	203 205	< 0.01	22	300	56	< 2	18	14	0.67	< 10	< 10	219	< 10	1675
T15175	203 205	0.01	12	170	10	< 2	2	11	0.14	< 10	< 10	65	< 10	152
T15176	203 205	< 0.01	2	480	2	< 2	2	33	0.16	< 10	< 10	10	< 10	104
T35927	203 205	0.01	37	770	40	< 2	8	30	0.31	< 10	< 10	90	< 10	278
T35928	203 205	0.04	27	140	8	< 2	5	24	0.21	< 10	< 10	65	< 10	122
T35929	203 205	0.01	37	490	54	< 2	4	9	0.20	< 10	< 10	60	< 10	276
T35930	203 205	0.01	28	680	12	< 2	3	19	0.21	< 10	< 10	57	< 10	102
T35931	203 205	0.01	20	140	8	< 2	3	6	0.14	< 10	< 10	50	< 10	62
T35932	203 205	0.01	18	360	4	< 2	3	6	0.12	< 10	< 10	37	< 10	38
T35933	203 205	0.02	26	470	6	< 2	3	14	0.11	< 10	< 10	38	< 10	210
T35934	203 205	0.02	33	750	6	< 2	3	11	0.12	< 10	< 10	42	< 10	44
T35935	203 205	0.02	11	750	4	< 2	3	12	0.15	< 10	< 10	41	< 10	62
T35936	203 205	0.03	36	420	4	< 2	3	14	0.14	< 10	< 10	38	< 10	44
T35937	203 205	0.02	21	400	4	< 2	3	7	0.17	< 10	< 10	43	< 10	42
T35938	203 205	0.03	16	590	4	< 2	3	13	0.12	< 10	< 10	31	< 10	30
T35939	203 205	0.01	12	110	4	< 2	2	9	0.13	< 10	< 10	38	< 10	28
T35940	203 205	< 0.01	12	960	20	< 2	10	21	0.50	< 10	< 10	95	< 10	188
T35941	203 205	0.01	30	980	54	< 2	7	31	0.16	< 10	< 10	47	< 10	266
T35942	203 205	0.01	21	610	14	< 2	4	14	0.22	< 10	< 10	74	< 10	132
T35943	203 205	0.12	58	680	6	< 2	9	43	0.55	< 10	< 10	175	< 10	126
T35944	203 205	< 0.01	19	250	42	< 2	4	11	0.29	< 10	< 10	86	< 10	218
T35945	203 205	< 0.01	27	280	14	< 2	5	17	0.31	< 10	< 10	82	< 10	108
T35946	203 205	< 0.01	13	540	48	2	6	23	0.34	< 10	< 10	78	< 10	202

CERTIFICATION: *[Signature]*



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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
T35947	203	205	< 0.2	2.02	2	110	0.5	< 2	0.13	< 0.5	7	267	12	4.88	< 10	< 1	0.36	20	0.70	240	2
T35948	203	205	< 0.2	2.66	8	210	0.5	< 2	0.70	< 0.5	11	230	18	3.90	< 10	< 1	0.48	30	1.49	525	2
T35949	203	205	< 0.2	3.29	6	280	0.5	< 2	0.40	< 0.5	8	175	58	5.16	< 10	< 1	0.87	30	1.98	635	1
T35950	203	205	< 0.2	2.73	6	240	0.5	< 2	0.19	< 0.5	7	237	34	4.71	< 10	< 1	0.62	20	0.96	265	2
T35951	203	205	< 0.2	2.62	8	200	0.5	< 2	0.27	< 0.5	12	250	85	4.73	< 10	< 1	0.83	30	1.22	450	1
T35952	203	205	< 0.2	1.54	6	160	0.5	< 2	0.49	< 0.5	14	313	13	2.56	< 10	1	0.46	40	1.45	445	< 1
T35953	203	205	< 0.2	2.54	6	280	0.5	2	0.58	0.5	14	290	193	4.62	< 10	< 1	0.65	30	1.34	450	3
T35954	203	205	< 0.2	1.77	2	190	0.5	< 2	0.27	0.5	8	297	10	2.61	< 10	< 1	0.47	40	0.90	325	1
T35955	203	205	< 0.2	1.69	2	400	< 0.5	10	0.21	1.5	< 1	165	137	10.85	10	< 1	1.09	20	0.30	165	38
T35956	203	205	< 0.2	2.26	6	160	0.5	< 2	0.55	< 0.5	8	306	19	3.82	< 10	< 1	0.64	80	1.00	430	2
T35957	203	205	< 0.2	1.89	4	180	0.5	< 2	0.42	< 0.5	6	360	9	2.64	< 10	< 1	0.45	20	0.80	295	2
T35958	203	205	< 0.2	2.41	2	250	1.0	< 2	0.59	< 0.5	10	343	11	3.24	< 10	< 1	0.74	30	0.86	395	1
T35959	203	205	< 0.2	2.59	10	210	1.0	< 2	0.20	< 0.5	9	252	11	3.43	< 10	< 1	0.58	30	0.64	280	1
T35960	203	205	< 0.2	2.04	2	150	0.5	< 2	0.28	< 0.5	4	460	6	2.50	< 10	< 1	0.46	20	0.59	210	1
T35961	203	205	< 0.2	1.60	2	100	0.5	< 2	0.22	< 0.5	5	319	4	2.01	< 10	< 1	0.38	10	0.71	210	< 1
T35962	203	205	< 0.2	2.27	4	150	0.5	< 2	0.31	< 0.5	7	391	7	2.80	< 10	< 1	0.50	20	0.85	270	< 1
T35963	203	205	< 0.2	1.40	4	90	< 0.5	< 2	0.10	< 0.5	5	211	7	2.56	< 10	< 1	0.26	20	0.50	270	2
T35964	203	205	< 0.2	2.13	4	140	0.5	< 2	0.30	< 0.5	8	402	9	2.94	< 10	< 1	0.45	20	0.72	345	1
T35965	203	205	< 0.2	2.06	4	150	0.5	< 2	0.22	< 0.5	8	354	9	2.87	< 10	< 1	0.48	20	0.85	305	1
T35968	203	205	< 0.2	2.20	4	200	0.5	< 2	0.35	< 0.5	12	401	10	3.01	< 10	< 1	0.55	30	0.88	400	3
T35969	203	205	< 0.2	1.97	4	160	0.5	< 2	0.46	< 0.5	9	220	11	3.25	< 10	< 1	0.48	20	1.13	410	2
T35970	203	205	< 0.2	1.99	4	110	0.5	< 2	0.21	0.5	5	301	27	2.65	< 10	< 1	0.36	30	0.57	235	1
T35971	203	205	< 0.2	2.99	6	140	1.0	< 2	0.25	< 0.5	8	296	191	4.92	< 10	< 1	0.53	30	1.16	330	2
T35972	203	205	3.0	1.90	4	80	< 0.5	32	0.45	1.0	1	108	1065	>15.00	10	< 1	2.05	10	0.67	380	1
T35973	203	205	< 0.2	1.89	6	210	0.5	< 2	0.39	< 0.5	9	249	23	3.04	< 10	< 1	0.60	40	0.92	315	1
T35974	203	205	< 0.2	1.56	< 2	110	0.5	< 2	0.27	< 0.5	8	252	11	2.75	< 10	< 1	0.30	10	0.89	250	< 1
T35975	203	205	< 0.2	2.49	4	160	0.5	< 2	0.50	< 0.5	14	304	16	4.58	< 10	< 1	0.58	20	1.26	515	1
T35976	203	205	< 0.2	1.43	4	140	0.5	< 2	0.41	< 0.5	12	248	12	2.66	< 10	< 1	0.33	30	1.01	410	< 1
T35977	203	205	< 0.2	1.01	6	90	0.5	< 2	0.36	< 0.5	5	372	7	1.89	< 10	< 1	0.32	10	0.61	215	< 1
T35978	203	205	< 0.2	2.19	8	240	0.5	< 2	0.53	< 0.5	10	277	23	4.02	< 10	< 1	0.67	40	1.12	430	2
T35979	203	205	< 0.2	1.98	2	140	< 0.5	< 2	0.49	< 0.5	7	356	10	4.52	10	< 1	0.43	20	0.89	375	4
T35980	203	205	< 0.2	2.75	4	200	0.5	< 2	0.52	< 0.5	8	263	11	4.68	10	< 1	0.73	20	1.45	410	1
T35981	203	205	< 0.2	2.19	2	300	0.5	< 2	0.08	0.5	< 1	177	28	6.96	10	< 1	1.09	20	0.46	115	12
T35982	203	205	< 0.2	1.97	2	180	0.5	< 2	0.40	< 0.5	5	336	4	2.46	< 10	< 1	0.76	20	0.77	270	1
T35983	203	205	< 0.2	2.11	< 2	170	0.5	< 2	0.29	< 0.5	9	313	12	2.83	< 10	< 1	0.68	30	0.70	340	1
T35984	203	205	< 0.2	2.01	4	150	0.5	< 2	0.28	< 0.5	6	394	8	3.01	< 10	< 1	0.42	20	0.68	305	1
T35985	203	205	< 0.2	3.48	6	250	1.5	< 2	0.27	< 0.5	10	346	13	4.35	10	< 1	0.69	30	0.84	335	1
T35986	203	205	< 0.2	2.53	4	140	0.5	< 2	0.25	< 0.5	6	314	8	3.59	< 10	1	0.47	20	0.75	240	1
T35987	203	205	< 0.2	2.39	2	140	0.5	< 2	0.29	< 0.5	7	340	8	3.60	< 10	< 1	0.45	30	0.71	255	1
T35988	203	205	< 0.2	2.54	8	170	1.0	< 2	0.19	< 0.5	9	132	10	3.48	< 10	< 1	0.47	20	0.82	265	1

CERTIFICATION: Hart Bichler



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P.O. Number :  
Account : MPO

Project : F.P. REDLINE  
Comments :

## CERTIFICATE OF ANALYSIS

## A9528566

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
T35947	203	205	0.02	32	320	12	< 2	3	9	0.19	< 10	< 10	62	< 10	74
T35948	203	205	0.04	28	590	14	< 2	5	25	0.31	< 10	< 10	83	< 10	120
T35949	203	205	0.02	23	480	42	< 2	5	16	0.20	< 10	< 10	55	< 10	342
T35950	203	205	0.01	37	460	22	< 2	4	16	0.24	< 10	< 10	64	< 10	132
T35951	203	205	0.02	49	690	20	< 2	4	17	0.21	< 10	< 10	59	< 10	186
T35952	203	205	0.04	94	840	14	< 2	4	21	0.15	< 10	< 10	45	< 10	62
T35953	203	205	0.03	50	350	10	< 2	5	30	0.25	< 10	< 10	75	< 10	380
T35954	203	205	0.06	31	170	8	< 2	4	14	0.16	< 10	< 10	45	< 10	108
T35955	203	205	0.01	6	800	44	2	2	29	0.21	< 10	< 10	24	< 10	612
T35956	203	205	0.06	22	590	30	< 2	6	23	0.25	< 10	< 10	61	< 10	290
T35957	203	205	0.07	27	250	6	< 2	4	18	0.16	< 10	< 10	47	< 10	52
T35958	203	205	0.10	26	610	8	< 2	6	24	0.19	< 10	< 10	51	< 10	52
T35959	203	205	0.05	24	340	8	< 2	4	14	0.16	< 10	< 10	50	< 10	52
T35960	203	205	0.15	20	160	6	< 2	3	19	0.17	< 10	< 10	48	< 10	38
T35961	203	205	0.06	25	220	6	< 2	3	10	0.14	< 10	< 10	41	< 10	40
T35962	203	205	0.09	31	440	6	< 2	4	14	0.17	< 10	< 10	50	< 10	48
T35963	203	205	0.02	22	300	8	< 2	2	9	0.14	< 10	< 10	57	< 10	42
T35964	203	205	0.11	27	270	8	2	4	14	0.22	< 10	< 10	56	< 10	58
T35965	203	205	0.07	35	270	8	< 2	4	13	0.15	< 10	< 10	50	< 10	56
T35968	203	205	0.08	33	550	12	< 2	5	17	0.18	< 10	< 10	53	< 10	68
T35969	203	205	0.02	31	350	20	< 2	5	18	0.22	< 10	< 10	59	< 10	702
T35970	203	205	0.04	22	170	58	< 2	3	10	0.13	< 10	< 10	41	< 10	278
T35971	203	205	0.03	28	190	60	2	4	13	0.23	< 10	< 10	66	< 10	446
T35972	203	205	< 0.01	4	340	32	4	2	86	0.21	< 10	< 10	36	< 10	640
T35973	203	205	0.08	35	570	14	< 2	4	19	0.15	< 10	< 10	54	< 10	132
T35974	203	205	0.01	39	570	6	< 2	3	10	0.18	< 10	< 10	52	< 10	44
T35975	203	205	0.02	55	990	10	< 2	5	18	0.32	< 10	< 10	86	< 10	90
T35976	203	205	0.01	51	790	10	< 2	3	16	0.17	< 10	< 10	50	< 10	50
T35977	203	205	0.07	25	540	8	< 2	2	15	0.09	< 10	< 10	30	< 10	58
T35978	203	205	0.03	27	580	16	< 2	6	19	0.21	< 10	< 10	72	< 10	84
T35979	203	205	0.04	21	260	16	< 2	6	27	0.38	< 10	< 10	127	< 10	118
T35980	203	205	0.02	30	150	54	< 2	6	23	0.41	< 10	< 10	91	< 10	234
T35981	203	205	0.03	4	460	6	2	2	12	0.09	< 10	< 10	25	< 10	420
T35982	203	205	0.09	17	200	4	< 2	4	20	0.22	< 10	< 10	46	< 10	48
T35983	203	205	0.07	24	490	6	2	4	13	0.16	< 10	< 10	44	< 10	48
T35984	203	205	0.07	28	430	8	< 2	4	16	0.18	< 10	< 10	60	< 10	48
T35985	203	205	0.07	27	390	8	< 2	6	18	0.22	< 10	< 10	70	< 10	62
T35986	203	205	0.07	23	260	6	< 2	4	17	0.18	< 10	< 10	52	< 10	44
T35987	203	205	0.06	23	530	6	< 2	4	14	0.16	< 10	< 10	45	< 10	42
T35988	203	205	0.01	26	430	6	< 2	4	8	0.16	< 10	< 10	49	< 10	52

CERTIFICATION:

*Hart Bickler*



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## CERTIFICATE OF ANALYSIS A9528566

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
T35989	203 205	< 0.2	1.39	2	80	0.5	< 2	0.20	< 0.5	7	142	8	2.08	< 10	< 1	0.25	20	0.71	200	1
T35990	203 205	< 0.2	2.03	4	260	0.5	< 2	0.55	< 0.5	10	322	8	3.08	10	< 1	0.61	20	0.83	370	3
T35991	203 205	< 0.2	1.63	4	140	0.5	< 2	0.41	< 0.5	9	194	7	2.51	< 10	< 1	0.43	20	0.86	280	1
T35992	203 205	< 0.2	2.82	6	260	1.0	< 2	0.53	< 0.5	11	133	35	3.24	10	< 1	0.92	60	0.89	445	2
T35993	203 205	< 0.2	2.47	2	240	0.5	< 2	0.65	< 0.5	13	148	17	3.84	10	< 1	0.92	30	1.32	450	< 1
T35994	203 205	< 0.2	2.22	6	240	1.0	< 2	0.77	< 0.5	10	150	32	2.90	< 10	< 1	0.62	60	0.88	390	1
T35995	203 205	< 0.2	2.20	6	230	1.0	< 2	0.75	< 0.5	11	142	38	3.25	10	< 1	0.60	50	1.01	415	1
T35996	203 205	< 0.2	1.14	4	110	0.5	< 2	0.45	< 0.5	8	217	13	1.77	< 10	< 1	0.30	30	0.78	290	1
T35997	203 205	< 0.2	1.06	4	80	< 0.5	< 2	0.26	< 0.5	8	259	10	2.28	< 10	< 1	0.18	10	1.02	155	< 1
T35998	203 205	< 0.2	1.29	4	110	< 0.5	< 2	0.37	< 0.5	13	310	13	2.50	< 10	< 1	0.35	20	1.23	495	< 1
T35999	203 205	< 0.2	1.11	4	90	0.5	< 2	0.34	< 0.5	9	168	10	1.83	< 10	1	0.24	20	1.01	220	< 1
T36000	203 205	< 0.2	0.87	< 2	60	< 0.5	< 2	0.24	< 0.5	5	130	4	1.35	< 10	< 1	0.20	20	0.56	170	< 1
T36702	203 205	< 0.2	1.76	8	140	0.5	< 2	0.78	0.5	11	130	37	3.08	< 10	< 1	0.59	30	0.81	435	1
T36703	203 205	< 0.2	2.10	4	110	0.5	< 2	0.13	< 0.5	7	119	16	2.92	< 10	< 1	0.23	20	0.72	175	1
T36704	203 205	< 0.2	0.93	4	90	< 0.5	< 2	0.28	< 0.5	7	143	9	1.83	< 10	< 1	0.26	10	0.61	185	1
T36705	203 205	< 0.2	2.33	6	140	< 0.5	< 2	0.18	< 0.5	8	128	21	4.49	10	< 1	0.49	10	1.29	430	2
T36706	203 205	< 0.2	1.98	6	190	0.5	< 2	0.35	< 0.5	8	121	25	3.85	< 10	< 1	0.51	20	1.06	295	< 1
T36707	203 205	< 0.2	2.66	8	170	0.5	< 2	0.13	< 0.5	12	161	32	4.52	10	< 1	0.50	20	1.26	315	< 1
T36708	203 205	< 0.2	3.94	12	240	< 0.5	< 2	1.46	0.5	27	133	13	5.65	10	< 1	0.81	10	2.59	920	1
T36709	203 205	< 0.2	2.10	4	130	< 0.5	< 2	0.37	< 0.5	9	149	40	4.14	10	< 1	0.62	10	1.11	360	1
T36710	203 205	< 0.2	2.51	8	190	0.5	< 2	0.50	< 0.5	9	132	63	4.13	10	1	0.62	40	1.65	595	1
T36711	203 205	< 0.2	1.26	4	120	< 0.5	< 2	0.59	< 0.5	8	152	11	2.19	< 10	< 1	0.30	20	0.83	275	3
T36712	203 205	< 0.2	1.02	4	60	< 0.5	< 2	0.15	< 0.5	3	117	8	2.10	< 10	< 1	0.19	10	0.41	140	< 1
T36713	203 205	< 0.2	2.48	12	190	0.5	< 2	1.22	0.5	15	85	24	4.08	10	< 1	0.64	30	1.19	600	1
T36714	203 205	< 0.2	1.60	4	150	0.5	< 2	0.29	< 0.5	8	218	8	2.31	< 10	< 1	0.50	20	0.79	265	2
T36715	203 205	< 0.2	1.39	4	120	< 0.5	< 2	0.24	< 0.5	6	192	8	1.93	< 10	< 1	0.40	10	0.62	195	3
T36716	203 205	< 0.2	0.85	4	70	< 0.5	< 2	0.09	< 0.5	3	160	8	1.38	< 10	< 1	0.20	20	0.22	105	< 1
T36717	203 205	< 0.2	1.09	< 2	70	< 0.5	< 2	0.11	< 0.5	4	173	8	1.74	< 10	< 1	0.24	10	0.50	175	< 1
T36718	203 205	< 0.2	1.90	2	110	0.5	< 2	0.12	< 0.5	7	128	11	2.55	< 10	< 1	0.32	10	0.74	195	1
T36719	203 205	< 0.2	1.54	< 2	100	0.5	< 2	0.18	< 0.5	7	99	9	2.19	< 10	< 1	0.26	20	0.66	220	< 1
T36720	203 205	< 0.2	1.87	2	170	0.5	< 2	0.29	< 0.5	10	137	12	2.55	< 10	1	0.30	20	0.84	285	< 1
T36721	203 205	< 0.2	1.76	10	100	0.5	< 2	0.15	< 0.5	8	70	11	2.75	< 10	< 1	0.36	10	0.67	205	< 1
T36722	203 205	< 0.2	1.57	4	90	0.5	< 2	0.14	< 0.5	6	233	9	2.10	< 10	< 1	0.30	10	0.65	200	< 1
T36723	203 205	< 0.2	1.89	8	170	0.5	< 2	0.66	0.5	13	139	19	2.99	< 10	< 1	0.49	30	0.98	705	3
T36724	203 205	< 0.2	2.41	6	230	0.5	< 2	0.82	6.5	20	107	506	3.59	< 10	< 1	0.61	60	0.99	925	3
T36725	203 205	3.0	3.43	48	280	0.5	4	0.13	2.0	3	43	1120	>15.00	10	< 1	1.41	10	0.95	395	16
T36726	203 205	< 0.2	0.97	< 2	130	< 0.5	< 2	0.51	8.0	3	162	60	1.24	< 10	< 1	0.28	40	0.64	130	< 1
T36727	203 205	< 0.2	1.71	8	110	0.5	< 2	0.37	< 0.5	11	113	29	3.10	< 10	< 1	0.37	30	1.09	350	< 1
T36728	203 205	0.2	1.11	6	100	< 0.5	< 2	0.34	< 0.5	10	123	10	2.25	< 10	< 1	0.35	20	0.97	295	1
T36729	203 205	< 0.2	1.20	4	120	0.5	< 2	0.37	< 0.5	12	149	19	2.11	< 10	< 1	0.39	20	1.03	185	1

CERTIFICATION:

*Hans Buehler*



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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
T35989	203	205	0.02	20	430	2	< 2	3	8	0.13	< 10	< 10	35	< 10	32
T35990	203	205	0.09	17	420	6	< 2	6	24	0.29	< 10	< 10	65	< 10	52
T35991	203	205	0.03	20	540	2	< 2	4	16	0.17	< 10	< 10	43	< 10	40
T35992	203	205	0.03	26	510	8	< 2	6	24	0.15	< 10	< 10	59	< 10	60
T35993	203	205	0.03	21	690	2	< 2	7	20	0.26	< 10	< 10	74	< 10	56
T35994	203	205	0.03	27	550	8	< 2	6	25	0.13	< 10	< 10	48	< 10	72
T35995	203	205	0.02	28	540	6	< 2	6	23	0.14	< 10	< 10	53	< 10	66
T35996	203	205	0.03	39	290	6	< 2	3	18	0.11	< 10	< 10	31	< 10	34
T35997	203	205	0.02	68	480	10	< 2	2	11	0.11	< 10	< 10	36	< 10	46
T35998	203	205	0.03	82	930	12	< 2	3	16	0.13	< 10	< 10	44	< 10	66
T35999	203	205	0.02	58	640	8	< 2	3	13	0.10	< 10	< 10	32	< 10	40
T36000	203	205	0.02	26	500	4	< 2	2	8	0.08	< 10	< 10	22	< 10	22
T36702	203	205	0.02	24	600	80	< 2	4	25	0.17	< 10	< 10	45	< 10	360
T36703	203	205	0.02	23	210	16	< 2	3	7	0.15	< 10	< 10	44	< 10	72
T36704	203	205	0.02	18	550	14	< 2	2	11	0.09	< 10	< 10	30	< 10	82
T36705	203	205	0.01	22	290	28	< 2	4	10	0.29	< 10	< 10	87	< 10	180
T36706	203	205	0.01	19	500	12	< 2	3	16	0.27	< 10	< 10	70	< 10	136
T36707	203	205	0.02	64	340	18	< 2	4	11	0.20	< 10	< 10	69	< 10	118
T36708	203	205	0.01	17	1070	< 2	< 2	3	39	0.65	< 10	< 10	172	< 10	414
T36709	203	205	0.01	18	240	4	< 2	4	15	0.42	< 10	< 10	104	< 10	154
T36710	203	205	0.02	25	560	86	< 2	5	17	0.20	< 10	< 10	52	< 10	352
T36711	203	205	0.03	24	690	8	< 2	3	18	0.13	< 10	< 10	41	< 10	110
T36712	203	205	0.02	11	280	14	< 2	2	8	0.11	< 10	< 10	34	< 10	92
T36713	203	205	0.02	22	830	52	< 2	5	37	0.33	< 10	< 10	91	< 10	304
T36714	203	205	0.05	27	140	4	< 2	3	16	0.17	< 10	< 10	46	< 10	52
T36715	203	205	0.03	18	220	4	< 2	3	11	0.14	< 10	< 10	38	< 10	38
T36716	203	205	0.03	10	170	6	< 2	1	7	0.11	< 10	< 10	32	< 10	26
T36717	203	205	0.04	19	200	4	< 2	2	8	0.11	< 10	< 10	32	< 10	32
T36718	203	205	0.01	34	370	6	< 2	3	7	0.12	< 10	< 10	45	< 10	48
T36719	203	205	0.01	24	420	8	< 2	3	8	0.13	< 10	< 10	36	< 10	54
T36720	203	205	0.03	45	510	6	< 2	4	12	0.15	< 10	< 10	43	< 10	46
T36721	203	205	0.01	19	390	6	< 2	3	8	0.14	< 10	< 10	47	< 10	42
T36722	203	205	0.06	28	250	4	< 2	3	10	0.11	< 10	< 10	40	< 10	32
T36723	203	205	0.02	29	760	42	< 2	5	21	0.18	< 10	< 10	50	< 10	298
T36724	203	205	0.01	22	920	20	< 2	6	24	0.21	< 10	< 10	62	< 10	1240
T36725	203	205	0.01	3	340	6	< 2	1	17	0.25	< 10	< 10	62	< 10	1560
T36726	203	205	0.03	24	850	6	< 2	2	19	0.09	< 10	< 10	24	< 10	930
T36727	203	205	0.01	38	710	6	< 2	4	13	0.21	< 10	< 10	60	< 10	114
T36728	203	205	0.01	48	840	6	< 2	3	13	0.13	< 10	< 10	42	< 10	42
T36729	203	205	0.01	82	680	12	< 2	3	15	0.10	< 10	< 10	35	< 10	60

CERTIFICATION: Hans Bickler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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Project: F.P. REDLINE  
 Comments:

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## CERTIFICATE OF ANALYSIS A9528566

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
T36730	203 205	< 0.2	0.88	8	90	< 0.5	< 2	0.33	< 0.5	8	249	15	1.86	< 10	< 1	0.16	10	0.92	190	< 1
T36731	203 205	< 0.2	1.31	8	110	< 0.5	< 2	0.26	< 0.5	7	113	14	2.90	< 10	< 1	0.50	20	0.78	245	1
T36732	203 205	< 0.2	2.19	8	130	< 0.5	< 2	0.37	2.5	13	266	38	4.76	< 10	< 1	0.51	30	0.78	365	7
T36733	203 205	< 0.2	0.94	< 2	60	< 0.5	< 2	0.16	< 0.5	5	145	14	1.64	< 10	< 1	0.21	30	0.53	185	< 1
T36734	203 205	< 0.2	1.19	4	110	< 0.5	< 2	0.27	< 0.5	6	389	7	1.77	< 10	< 1	0.41	10	0.57	200	1
T36735	203 205	< 0.2	1.40	6	100	< 0.5	< 2	0.15	< 0.5	6	113	16	2.39	< 10	< 1	0.38	10	0.65	210	1
T36736	203 205	< 0.2	1.92	4	150	0.5	< 2	0.21	< 0.5	8	259	7	2.68	< 10	< 1	0.40	20	0.86	340	1
T36737	203 205	< 0.2	1.63	2	100	0.5	< 2	0.13	< 0.5	8	151	9	2.53	< 10	< 1	0.34	20	0.70	220	< 1
T36738	203 205	< 0.2	1.37	4	80	< 0.5	< 2	0.10	< 0.5	5	89	6	2.18	< 10	< 1	0.24	10	0.45	150	< 1
T36739	203 205	< 0.2	1.61	< 2	100	0.5	< 2	0.21	< 0.5	8	139	8	2.48	< 10	< 1	0.37	20	0.76	225	< 1
T36740	203 205	< 0.2	1.87	2	110	0.5	< 2	0.25	< 0.5	7	416	7	3.04	< 10	< 1	0.50	20	0.66	265	< 1
T36741	203 205	< 0.2	2.40	8	150	0.5	< 2	0.12	< 0.5	7	335	10	3.83	< 10	< 1	0.54	20	0.53	240	1
T36742	203 205	< 0.2	1.62	2	130	< 0.5	< 2	0.19	< 0.5	6	387	6	2.25	< 10	< 1	0.40	20	0.54	195	< 1
T36743	203 205	< 0.2	2.14	4	140	0.5	< 2	0.20	< 0.5	8	299	8	2.87	< 10	< 1	0.51	10	0.77	290	2
T36744	203 205	< 0.2	1.74	6	150	0.5	< 2	0.30	< 0.5	8	308	9	2.56	< 10	< 1	0.51	20	0.71	235	1
T36745	203 205	< 0.2	3.25	6	320	1.0	< 2	0.76	< 0.5	12	102	33	3.88	< 10	< 1	1.03	90	1.03	595	2
T36746	203 205	< 0.2	1.44	4	80	0.5	< 2	0.26	< 0.5	8	189	12	2.26	< 10	< 1	0.30	50	0.74	285	< 1
T36747	203 205	< 0.2	2.78	6	170	0.5	< 2	0.23	< 0.5	10	97	44	5.64	< 10	< 1	1.45	20	1.16	455	< 1
T36748	203 205	< 0.2	2.22	4	200	0.5	< 2	0.44	< 0.5	10	313	13	3.33	< 10	< 1	0.59	20	1.08	305	1
T36749	203 205	< 0.2	1.54	4	140	0.5	< 2	0.20	< 0.5	8	220	19	2.67	< 10	< 1	0.31	20	0.74	225	1
T36750	203 205	< 0.2	1.11	2	70	< 0.5	< 2	0.22	< 0.5	8	194	10	1.77	< 10	< 1	0.16	20	0.90	185	< 1
T36751	203 205	< 0.2	0.92	6	70	< 0.5	< 2	0.32	< 0.5	9	179	7	2.01	< 10	< 1	0.15	10	1.14	170	1
T36752	203 205	< 0.2	1.90	10	170	< 0.5	< 2	0.22	< 0.5	9	285	17	4.47	< 10	< 1	0.54	10	0.72	320	1
T36753	203 205	< 0.2	1.84	6	190	0.5	< 2	0.59	< 0.5	11	152	25	3.75	< 10	< 1	0.61	60	0.94	455	1
T36754	203 205	< 0.2	1.93	2	150	0.5	< 2	0.45	< 0.5	11	220	21	2.99	< 10	< 1	0.57	30	1.20	325	< 1
T36755	203 205	< 0.2	1.53	8	100	0.5	< 2	0.14	< 0.5	5	143	12	2.59	< 10	< 1	0.28	20	0.60	185	1
T36756	203 205	< 0.2	2.41	4	330	1.0	< 2	0.74	< 0.5	11	225	25	3.04	< 10	< 1	0.62	60	0.89	355	2
T36757	203 205	< 0.2	1.33	2	120	< 0.5	< 2	0.27	< 0.5	7	65	11	2.34	< 10	< 1	0.40	20	0.74	290	1
T36758	203 205	< 0.2	1.27	< 2	90	< 0.5	< 2	0.25	< 0.5	7	120	6	2.26	< 10	< 1	0.38	20	0.68	270	< 1
T36759	203 205	< 0.2	2.82	6	230	1.0	< 2	0.82	< 0.5	15	127	30	4.69	< 10	< 1	0.82	30	1.02	1000	2
T36760	203 205	< 0.2	1.14	2	90	< 0.5	< 2	0.29	< 0.5	7	137	9	1.96	< 10	< 1	0.32	10	0.66	255	< 1
T36761	203 205	< 0.2	1.29	4	120	0.5	< 2	0.34	0.5	9	147	16	3.01	< 10	< 1	0.35	30	0.69	485	3
T36762	203 205	< 0.2	1.96	6	190	0.5	< 2	0.40	< 0.5	11	174	20	2.94	< 10	< 1	0.78	30	0.94	320	< 1
T36763	203 205	< 0.2	2.79	8	260	0.5	< 2	0.50	< 0.5	14	168	29	4.15	< 10	< 1	1.26	40	1.20	460	1
T36764	203 205	0.2	1.36	8	120	< 0.5	< 2	0.56	< 0.5	7	140	32	2.50	< 10	< 1	0.34	10	0.58	195	< 1
T36765	203 205	< 0.2	1.70	4	120	0.5	< 2	0.15	< 0.5	7	130	9	3.01	< 10	< 1	0.37	10	0.73	230	< 1
T36766	203 205	< 0.2	1.65	2	130	0.5	< 2	0.44	< 0.5	7	372	8	2.31	< 10	< 1	0.43	20	0.72	240	< 1
T36767	203 205	< 0.2	2.06	8	210	0.5	< 2	0.40	< 0.5	9	186	11	3.17	< 10	< 1	0.44	70	0.93	235	1
T36768	203 205	< 0.2	1.97	4	170	0.5	< 2	0.37	< 0.5	10	172	12	3.14	< 10	< 1	0.50	30	0.88	315	3
T36769	203 205	< 0.2	2.38	6	190	0.5	< 2	0.27	< 0.5	8	611	9	3.04	< 10	< 1	0.64	20	0.75	275	1

CERTIFICATION:

*Hart Bichler*



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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
F36730	203 205	0.02	56	310	12	< 2	2	13	0.10	< 10	< 10	32	< 10	48
F36731	203 205	0.01	17	190	12	< 2	3	11	0.19	< 10	< 10	59	< 10	80
F36732	203 205	0.05	24	260	56	< 2	5	18	0.45	< 10	< 10	123	< 10	1470
F36733	203 205	0.02	16	100	12	< 2	2	7	0.11	< 10	< 10	27	< 10	156
F36734	203 205	0.09	19	110	6	< 2	3	14	0.18	< 10	< 10	42	< 10	66
F36735	203 205	0.04	14	420	12	< 2	3	9	0.14	< 10	< 10	44	< 10	100
F36736	203 205	0.04	24	260	6	< 2	4	13	0.21	< 10	< 10	55	< 10	56
F36737	203 205	0.02	26	280	6	< 2	3	8	0.14	< 10	< 10	43	< 10	40
F36738	203 205	0.01	12	250	6	< 2	2	7	0.12	< 10	< 10	41	< 10	32
F36739	203 205	0.02	30	530	4	< 2	3	7	0.15	< 10	< 10	39	< 10	40
F36740	203 205	0.10	28	390	4	< 2	4	13	0.21	< 10	< 10	65	< 10	38
F36741	203 205	0.06	19	500	8	< 2	4	11	0.16	< 10	< 10	57	< 10	44
F36742	203 205	0.12	22	230	8	< 2	3	15	0.15	< 10	< 10	47	< 10	32
F36743	203 205	0.08	22	390	6	< 2	4	13	0.17	< 10	< 10	59	< 10	46
F36744	203 205	0.10	23	230	6	< 2	3	18	0.16	< 10	< 10	48	< 10	50
F36745	203 205	0.06	35	550	6	< 2	8	35	0.16	< 10	< 10	68	< 10	102
F36746	203 205	0.04	19	390	4	< 2	3	10	0.14	< 10	< 10	36	< 10	66
F36747	203 205	< 0.01	11	110	12	< 2	7	13	0.55	< 10	< 10	103	< 10	162
F36748	203 205	0.13	20	460	14	< 2	6	23	0.32	< 10	< 10	84	< 10	70
F36749	203 205	0.02	30	290	14	< 2	3	12	0.14	< 10	< 10	50	< 10	70
F36750	203 205	0.02	57	490	8	< 2	2	9	0.10	< 10	< 10	30	< 10	36
F36751	203 205	0.01	72	800	8	< 2	2	11	0.08	< 10	< 10	32	< 10	52
F36752	203 205	0.06	22	590	24	< 2	4	15	0.24	< 10	< 10	86	< 10	94
F36753	203 205	0.02	28	780	16	< 2	5	19	0.14	< 10	< 10	50	< 10	80
F36754	203 205	0.05	53	330	12	< 2	6	17	0.15	< 10	< 10	54	< 10	62
F36755	203 205	0.01	13	260	20	< 2	3	8	0.15	< 10	< 10	46	< 10	98
F36756	203 205	0.07	29	760	28	< 2	6	26	0.17	< 10	< 10	51	< 10	160
F36757	203 205	0.01	9	600	2	< 2	3	11	0.12	< 10	< 10	33	< 10	50
F36758	203 205	0.02	14	120	2	< 2	3	9	0.13	< 10	< 10	34	< 10	32
F36759	203 205	0.02	43	430	14	< 2	8	23	0.16	< 10	< 10	74	< 10	136
F36760	203 205	0.02	26	260	6	< 2	2	10	0.10	< 10	< 10	30	< 10	46
F36761	203 205	0.02	36	500	14	< 2	3	13	0.12	< 10	< 10	34	< 10	178
F36762	203 205	0.03	52	660	6	< 2	6	17	0.15	< 10	< 10	49	< 10	72
F36763	203 205	0.05	25	870	6	< 2	9	17	0.25	< 10	< 10	81	< 10	90
F36764	203 205	0.02	23	280	52	< 2	3	18	0.14	< 10	< 10	43	< 10	184
F36765	203 205	0.01	15	270	24	< 2	3	6	0.17	< 10	< 10	43	< 10	96
F36766	203 205	0.11	19	130	4	< 2	4	18	0.16	< 10	< 10	43	< 10	34
F36767	203 205	0.02	21	790	4	< 2	6	14	0.18	< 10	< 10	54	< 10	50
F36768	203 205	0.02	25	530	6	< 2	5	17	0.16	< 10	< 10	54	< 10	48
F36769	203 205	0.13	27	450	4	< 2	4	18	0.18	< 10	< 10	57	< 10	50

CERTIFICATION:

*Hart Bichler*



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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
T36770	203	205	< 0.2	1.88	4	110	0.5	< 2	0.20	< 0.5	8	185	9	2.94	< 10	1	0.47	10	0.77	230	2
T36771	203	205	< 0.2	2.43	16	150	0.5	< 2	0.09	< 0.5	9	154	11	3.77	< 10	< 1	0.41	20	0.60	230	< 1
T36772	203	205	< 0.2	1.18	4	60	< 0.5	< 2	0.11	< 0.5	4	199	7	2.12	< 10	< 1	0.22	10	0.46	155	< 1
T36773	203	205	< 0.2	1.77	4	110	< 0.5	< 2	0.20	< 0.5	9	255	11	3.22	10	< 1	0.42	10	0.78	400	< 1
T36774	203	205	< 0.2	2.21	12	110	0.5	< 2	0.09	< 0.5	8	195	11	4.02	< 10	1	0.43	20	0.58	245	< 1
T36775	203	205	< 0.2	1.71	< 2	110	0.5	< 2	0.20	< 0.5	8	201	7	2.62	< 10	< 1	0.44	10	0.79	280	2
T36776	203	205	< 0.2	1.70	4	120	0.5	< 2	0.18	< 0.5	7	214	10	3.37	10	< 1	0.37	30	0.58	215	1
T36777	203	205	< 0.2	2.03	2	120	0.5	< 2	0.43	< 0.5	12	227	10	3.55	10	< 1	0.67	20	1.11	465	4
T36778	203	205	< 0.2	2.42	4	190	0.5	< 2	0.59	< 0.5	8	203	16	3.08	10	< 1	0.74	60	0.92	240	3
T36779	203	205	< 0.2	1.87	2	140	0.5	< 2	0.42	< 0.5	8	216	10	2.76	< 10	< 1	0.72	20	0.87	285	1
T36780	203	205	< 0.2	2.47	4	200	1.0	< 2	0.88	< 0.5	11	208	27	3.51	10	< 1	0.79	70	0.90	415	3
T36781	203	205	< 0.2	2.01	4	210	0.5	< 2	0.48	< 0.5	10	201	16	3.51	< 10	< 1	0.57	30	0.97	395	3
T36782	203	205	< 0.2	1.52	2	140	0.5	< 2	0.47	< 0.5	10	199	12	2.97	< 10	< 1	0.46	20	0.85	350	2
T36783	203	205	< 0.2	0.98	2	80	< 0.5	< 2	0.20	< 0.5	6	230	7	1.85	< 10	< 1	0.21	10	0.64	165	1
T36784	203	205	< 0.2	1.06	2	110	< 0.5	< 2	0.35	< 0.5	10	206	9	1.89	< 10	< 1	0.25	20	0.97	260	1
T36785	203	205	< 0.2	0.85	4	60	< 0.5	< 2	0.28	< 0.5	7	166	6	1.59	< 10	< 1	0.14	20	0.80	215	< 1
T36786	203	205	< 0.2	3.22	8	320	1.5	< 2	0.73	< 0.5	12	139	52	4.36	10	< 1	0.85	110	1.16	540	< 1
T36787	203	205	< 0.2	3.14	10	300	1.0	< 2	0.70	< 0.5	14	120	23	4.51	10	< 1	0.93	120	1.11	530	< 1
T36788	203	205	< 0.2	5.45	16	310	1.0	< 2	0.61	< 0.5	23	128	15	8.05	20	< 1	2.50	30	2.35	850	2
T36789	203	205	< 0.2	2.40	4	190	0.5	< 2	0.43	< 0.5	14	206	13	4.06	10	< 1	0.73	20	1.13	600	< 1
T36790	203	205	< 0.2	1.51	4	130	0.5	< 2	0.38	< 0.5	9	218	8	2.53	< 10	< 1	0.55	20	0.75	335	1
T36791	203	205	< 0.2	1.77	4	150	0.5	< 2	0.43	< 0.5	8	222	9	2.66	< 10	< 1	0.48	20	0.87	320	2
T36792	203	205	< 0.2	1.56	4	130	0.5	< 2	0.25	< 0.5	7	275	10	3.04	10	< 1	0.46	20	0.55	250	1
T36793	203	205	< 0.2	2.14	4	140	0.5	< 2	0.24	< 0.5	8	217	9	3.17	< 10	< 1	0.39	20	0.74	260	< 1
T36794	203	205	< 0.2	2.83	4	170	0.5	< 2	0.22	< 0.5	14	112	16	4.35	10	< 1	0.76	10	1.11	495	1
T36795	203	205	< 0.2	2.09	6	110	0.5	< 2	0.14	< 0.5	8	263	7	3.60	10	< 1	0.42	20	0.71	255	< 1
T36796	203	205	< 0.2	2.10	8	130	0.5	< 2	0.09	< 0.5	8	142	10	3.78	< 10	< 1	0.35	10	0.57	250	1
T36797	203	205	< 0.2	2.12	2	250	0.5	< 2	0.49	< 0.5	11	166	16	2.97	10	< 1	0.52	30	0.90	670	< 1
T36798	203	205	< 0.2	1.31	< 2	120	0.5	< 2	0.37	< 0.5	7	128	7	2.47	< 10	< 1	0.52	30	0.71	325	< 1

CERTIFICATION:

*Hart Buchler*



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### A9528566

SAMPLE	PREP		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T36770	203	205	0.04	20	520	6	< 2	4	10	0.15	< 10	< 10	50	< 10	48
T36771	203	205	0.02	21	270	8	< 2	4	9	0.15	< 10	< 10	55	< 10	52
T36772	203	205	0.02	19	300	8	< 2	2	7	0.14	< 10	< 10	52	< 10	32
T36773	203	205	0.03	21	480	8	< 2	4	11	0.23	< 10	< 10	65	< 10	80
T36774	203	205	0.02	19	420	6	< 2	4	9	0.14	< 10	< 10	51	< 10	50
T36775	203	205	0.03	17	350	4	< 2	4	10	0.20	< 10	< 10	56	< 10	44
T36776	203	205	0.03	16	520	6	< 2	4	12	0.21	< 10	< 10	70	< 10	40
T36777	203	205	0.04	20	410	4	< 2	6	16	0.23	< 10	< 10	64	< 10	70
T36778	203	205	0.04	27	660	6	< 2	7	19	0.18	< 10	< 10	55	< 10	112
T36779	203	205	0.04	20	180	6	< 2	4	16	0.19	< 10	< 10	46	< 10	68
T36780	203	205	0.04	28	750	6	< 2	7	28	0.18	< 10	10	61	< 10	112
T36781	203	205	0.04	18	310	36	< 2	4	17	0.18	< 10	< 10	59	< 10	124
T36782	203	205	0.03	28	530	14	< 2	3	17	0.16	< 10	< 10	45	< 10	64
T36783	203	205	0.03	26	420	8	< 2	2	8	0.10	< 10	< 10	32	< 10	44
T36784	203	205	0.03	61	680	12	< 2	2	14	0.10	< 10	< 10	31	< 10	42
T36785	203	205	0.01	45	530	8	< 2	2	10	0.09	< 10	< 10	28	< 10	34
T36786	203	205	0.02	45	510	8	< 2	9	27	0.13	< 10	< 10	65	< 10	194
T36787	203	205	0.03	33	750	6	< 2	9	25	0.15	< 10	< 10	74	< 10	110
T36788	203	205	0.01	20	1060	2	< 2	15	20	0.62	< 10	< 10	187	< 10	186
T36789	203	205	0.03	23	460	4	< 2	7	16	0.29	< 10	< 10	81	< 10	78
T36790	203	205	0.05	20	680	4	< 2	4	14	0.13	< 10	< 10	44	< 10	74
T36791	203	205	0.06	20	610	4	< 2	4	15	0.17	< 10	< 10	49	< 10	52
T36792	203	205	0.04	14	470	12	< 2	4	12	0.24	< 10	< 10	68	< 10	54
T36793	203	205	0.05	22	410	4	< 2	4	12	0.17	< 10	< 10	48	< 10	42
T36794	203	205	0.01	30	480	10	< 2	7	12	0.31	< 10	< 10	94	< 10	110
T36795	203	205	0.03	28	450	8	< 2	3	8	0.15	< 10	< 10	61	< 10	46
T36796	203	205	0.02	20	390	6	< 2	3	7	0.14	< 10	< 10	54	< 10	50
T36797	203	205	0.03	28	680	8	< 2	6	17	0.16	< 10	< 10	60	< 10	96
T36798	203	205	0.03	14	850	4	< 2	4	11	0.16	< 10	< 10	42	< 10	44

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

*Handwritten signature*



# 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

EXPATRIATE RESOURCES LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

Project : F.P. REDLINE  
Comments:

Page No. : 1  
Total Pages : 1  
Certificate Date: 02-NOV-95  
Invoice No. : I9532060  
P.O. Number :  
Account : MPO

## CERTIFICATE OF ANALYSIS

### A9532060

SAMPLE	PREP CODE	Au ppb FA+AA									
T35174	244 --	< 5									
T35941	244 --	< 5									
T35953	244 --	< 5									
T35955	244 --	< 5									
T35969	244 --	< 5									
T35970	244 --	< 5									
T35971	244 --	< 5									
T35972	244 --	< 5									
T35980	244 --	< 5									
T35981	244 --	< 5									
T36708	244 --	< 5									
T36723	244 --	< 5									
T36724	244 --	< 5									
T36725	244 --	< 5									
T36726	244 --	< 5									
T36732	244 --	< 5									

CERTIFICATION:

*John Vank*

QA24731

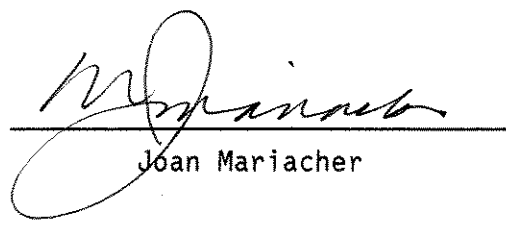
**ARCHER, CATHRO**  
A ASSOCIATES (1981) LIMITED  
**CONSULTING GEOLOGICAL ENGINEERS**

Box 4127, 2054 SECOND AVENUE, WHITEHORSE, Y.T. Y1A 3S9 TEL (403) 667 - 4415

AFFIDAVIT

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

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Red Line 1-12 mineral claims on Claim Sheet 105G/8 is accurate.

  
Joan Mariacher

Sworn before me at Vancouver, B.C.  
this 18th day of  
March, 1996

  
Notary, Yukon Territory



**Statement of Expenditures  
Red Line 1-12 Claims  
March 18, 1996**

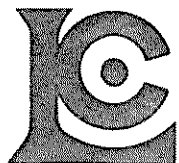
Labour

T. Becker, geologist - September 1-10 @ \$270/day .....	\$2,889.00
D. Robinson, field assistant - September 4-10 @ \$165/day .....	<u>1,253.85</u>
	\$4,142.85

Expenses

Field - room and board - 12 days @ \$70/day .....	898.80
Chemex Labs Ltd. ....	<u>2,084.69</u>
	\$2,983.49
 TOTAL .....	 <u>\$7,126.34</u>





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

To: EXPATRIATE RESOURCES LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

INVOICE NUMBER

I 9 5 2 8 5 6 6

## BILLING INFORMATION

Date: 2-OCT-95  
Project: F.P. REDLINE  
P.O. No.:  
Account: MPO

Comments:

Billing: For analysis performed on  
Certificate A9528566

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
229	203 - Dry, sieve to -35 mesh	1.25		
	205 - Geochem ring to approx 150 mesh ICP-32	2.50 7.00	10.75	2461.75
Total Cost \$				2461.75
Client Discount ( 25%) \$				-615.44
Net Cost \$				1846.31
(Reg# R10938885 ) GST \$				129.24
<b>TOTAL PAYABLE (CDN) \$</b>				<b>1975.55</b>



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

To: EXPATRIATE RESOURCES LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

**INVOICE NUMBER**

**I 9 5 3 2 0 6 0**

## BILLING INFORMATION

Date: 2-NOV-95  
Project: F.P. REDLINE  
P.O. No.:  
Account: MPO

Comments:

Billing: For analysis performed on  
Certificate A9532060

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
16	244 - Pulp; prev. prepared at Chemex 100 - Au ppb FA+AA	0.00 8.50		136.00
Total Cost \$				136.00
Client Discount ( 25%) \$				<u>-34.00</u>
Net Cost \$				102.00
(Reg# R100938885 ) GST \$				<u>7.14</u>
<b>TOTAL PAYABLE (CDN) \$</b>				<b>109.14</b>

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

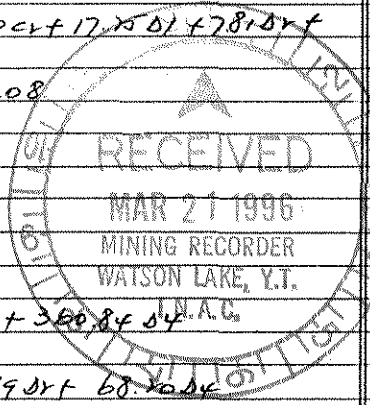
Project: —

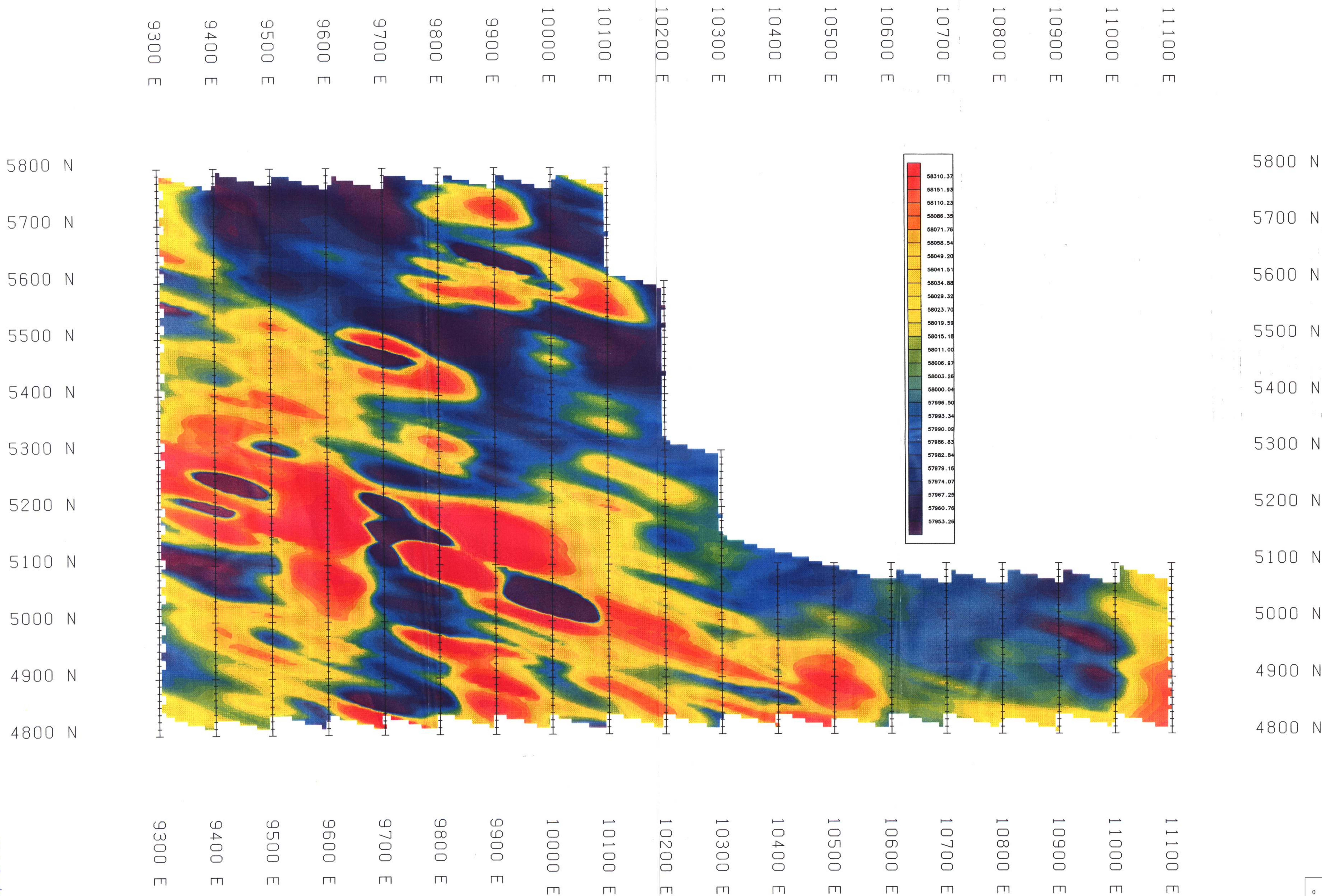
FINLAYSON PROJECT

Date: —

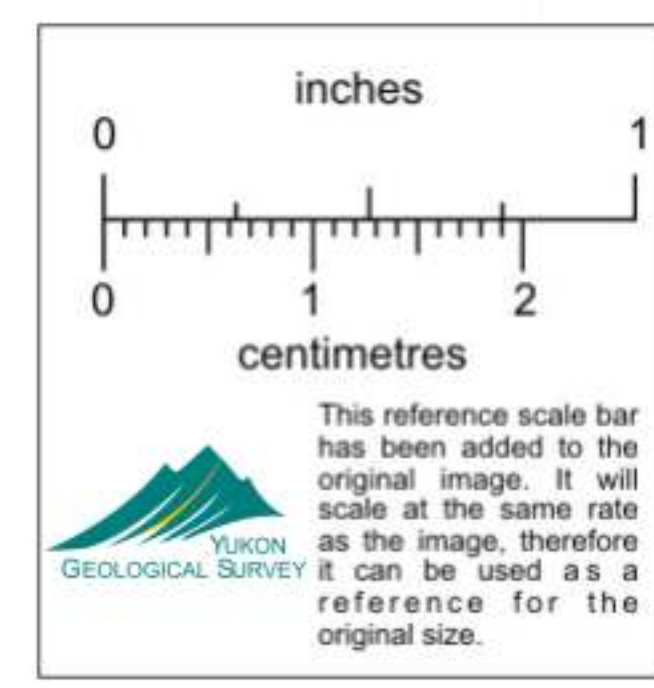
SEPTEMBER 30, 1995

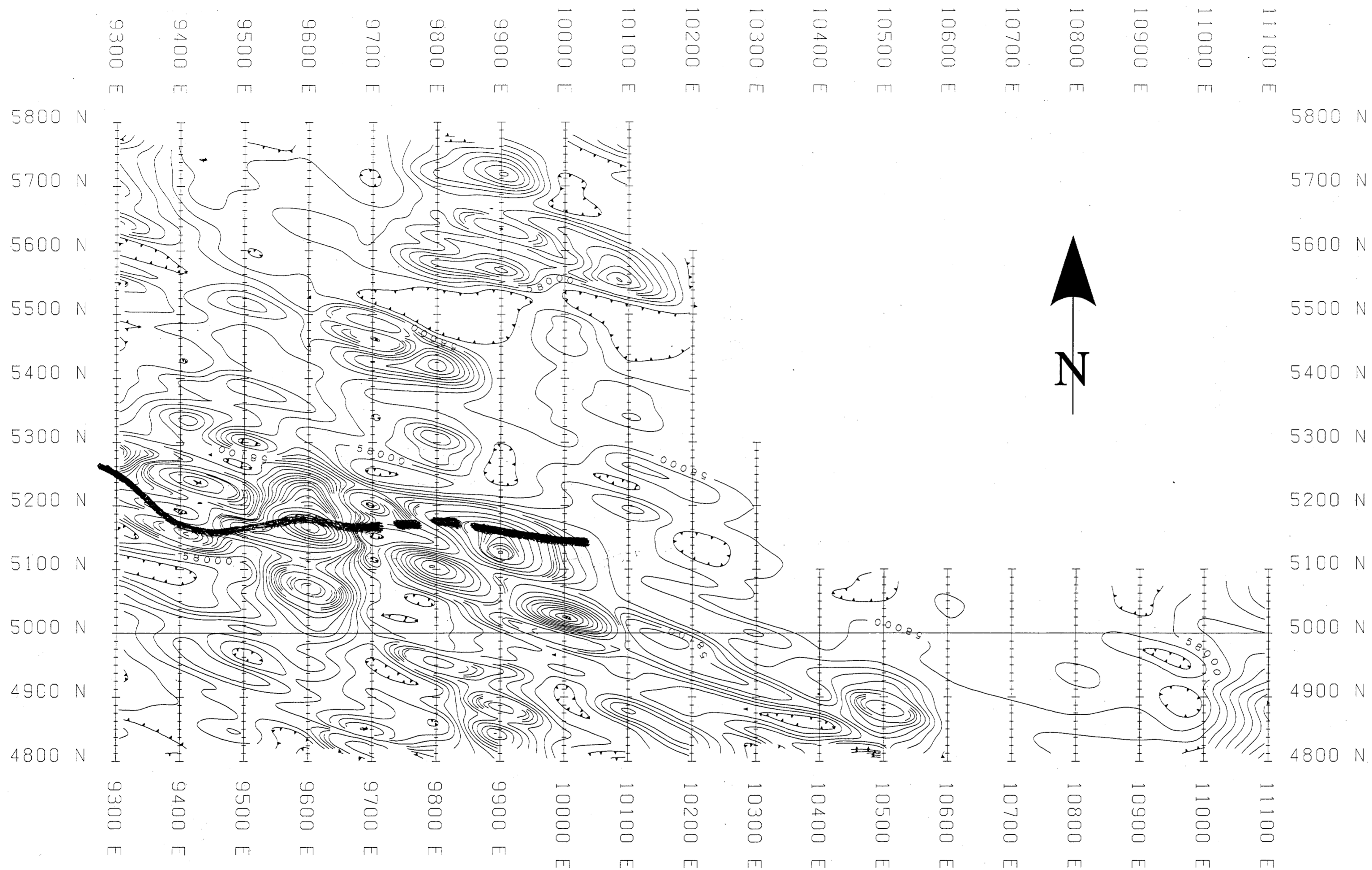
LABOUR			
Field	A ARCHER - 32 HRS AT 60/HR	1920.00	
	D. EATON - 174 HRS AT 50/HR	8600.00	
	B. WENZYNOWSKI - 126 HRS AT 40/HR	5040.00	
	F. GISH - 240 HRS AT 40/HR	9600.00	
	T. BECKER - 27 DAYS AT 270/DAY	7290.00	
	K. SAX - 6 DAYS AT 270/DAY	1620.00	
	R. MARTIN - 11 DAYS AT 195/DAY	2145.00	
	G. HUNKING - 30 DAYS AT 165/DAY	4950.00	
	A. JOE - 22 DAYS AT 165/DAY	3630.00	
	J. JOE - 18 DAYS AT 165/DAY	2970.00	
	D. ROBINSON - 29 DAYS AT 165/DAY	4785.00	
	BRAD WENZYNOWSKI - 14 DAYS AT 165/DAY	2310.00	
	J. ASP-DAVIS - 30 DAYS AT 217.50/DAY	6525.00	
	B. WENZYNOWSKI - CREDIT 4 HRS AT 40/HR - CRED IN ERROR	<160.00>	
Office	M. COOKE - 27 HRS AT 30/HR	810.00	
Accounting & Expediting	J. MARIACHER - 164 3/4 HRS AT 42.50/HR	7001.88	69036.88
<b>OTHER SERVICES</b>			
Room & Board in Whitehorse	25 DAYS AT 60/DAY	1500.00	
Field equipment from AC stock		193.90	
Photocopies, 864 copies at 25¢/copy		216.00	
Rentals from AC SEPT. 1-11 - SBX 11 AT 10/DAY; 2 UNLAMAS AT 1/DAY; 2 MAGS AT 3.33/DAY		168.63	
SEPT. 1-22 - 2 SBX 11 AT 10/DAY (Ten)		440.00	
AC HANDHELD - 16 DAYS AT 175/MD		66.65	
Blueprinting, sq.ft. Ozalid at \$/ft, plus sq.ft. Dilar at \$/ft.			
Drafting, 31 hrs at \$ 33.75/hr.		1046.25	
LOOMIS COURIER - 4 AT 12.50 EA		50.00	3681.43
<b>EXPENSES</b>			
Petty Cash 11.02 cv + 51.38 dv + 94.55 dv + 25.00 dv + 25.40 cv + 17.25 dv + 78.10 cv + 18.64 dv + 92.05 dv		343.10	
Telephone 9.37 + 230.31 + 24.39 + 16.07 + 403.10 + 71.11 + 20.08		774.43	
FOOD FAIR		48.05	
INTEGRAPHICS - 40.75 + 94.21		134.96	
NORTH 60° PETRO - 2470.38 dv + 7251.14 dv		9721.52	
ATLAS TRAVEL - 3059.00 + 75.00 + 707.05		3841.05	
SHOLPERS DANG		4102.17	
THE WELCOME INN - 773.33 dv + 1050.80 dv + 358.60 dv		2182.73	
SECOND AVENUE CHEVROK - 128.20 dv + 56.53 dv + 11.68 dv + 388.84 dv		557.25	
ALKAN AIR		726.00	
ROSS RIVER SERVICE - 36.98 dv + 151.21 dv + 5.00 dv + 163.89 dv + 60.20 dv		418.28	
CARL - 552.25 + 271.06 + 1119.92		1943.23	
LOOMIS COURIER		31.37	
REGENER GENERAL - MAR		64.20	
YUKON EXPLOSIVES		150.00	
ROSS RIVER ENTERPRISES - 232.48 dv + 24.00 dv + 100.47 dv		356.95	
YUKON BUILDING SUPPLIES		74.34	
NORCAN LEASING - 558.18 + 1041.00 + 1254.22		2853.32	
CORPORATE COURIERS		2.00	
MAG'S BOOKS		44.34	
SUN RISE SERVICE		478.04	
PRO HARAWALL		479.00	
CARMACKS HOTEL		174.35	
SOURDOUGH MARKETS		23.25	25640.08
MANAGEMENT, 6% - ON EXPENSES		1538.40	
- ON FIELD ATC		18233.34	19771.74
			118130.13
GST (R100247667) 7% ON 118130.13			8269.11
			126399.24





093491

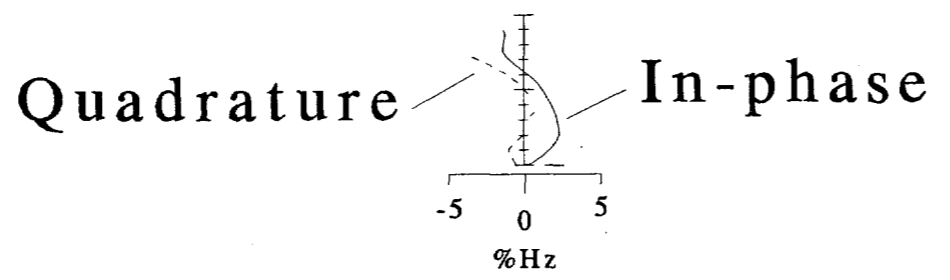
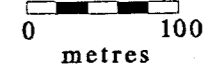
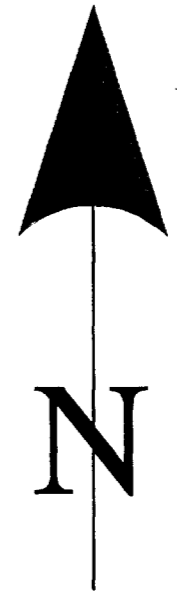
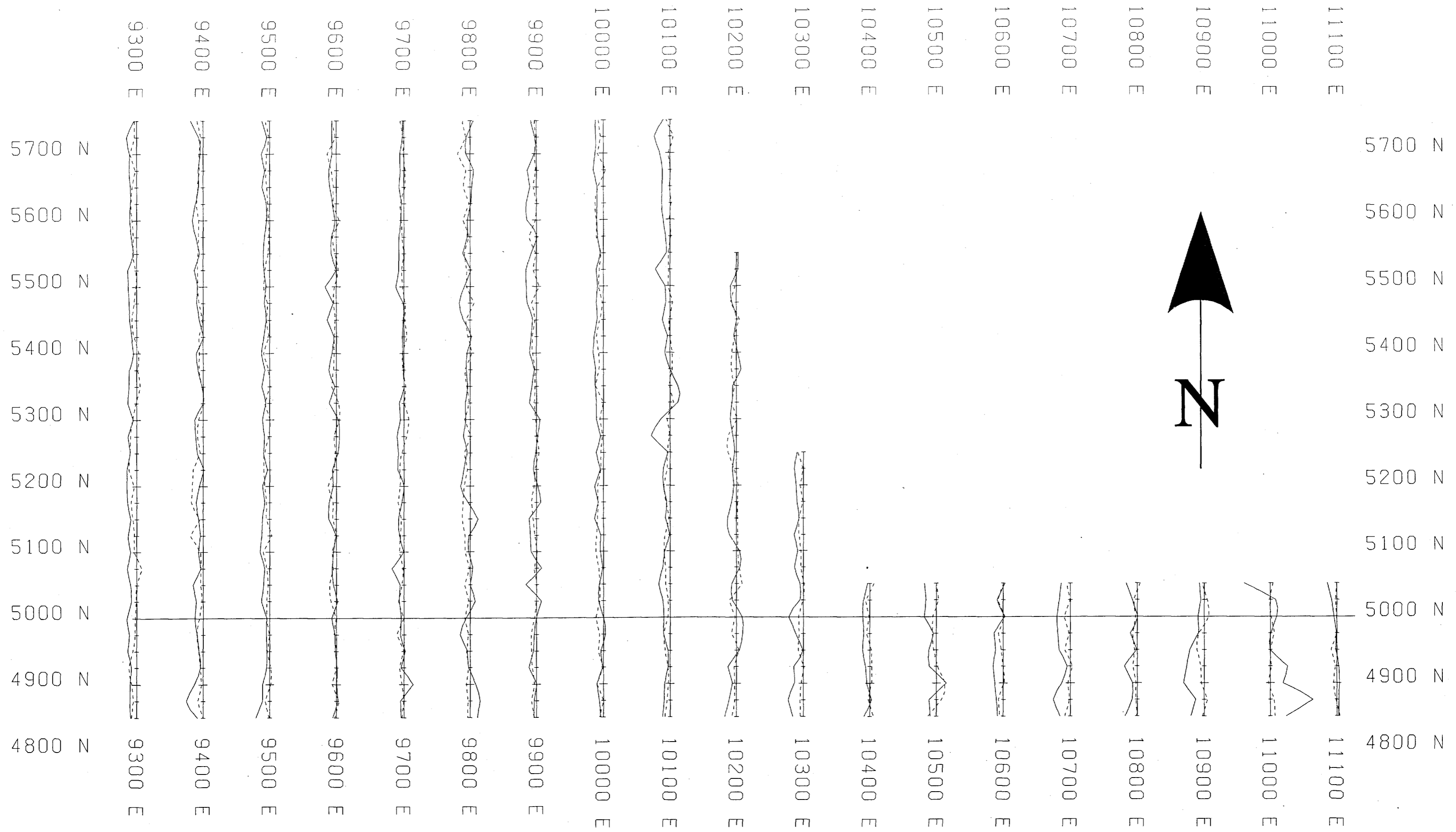




093491 #1

CONTOUR INTERVAL: 20 nT

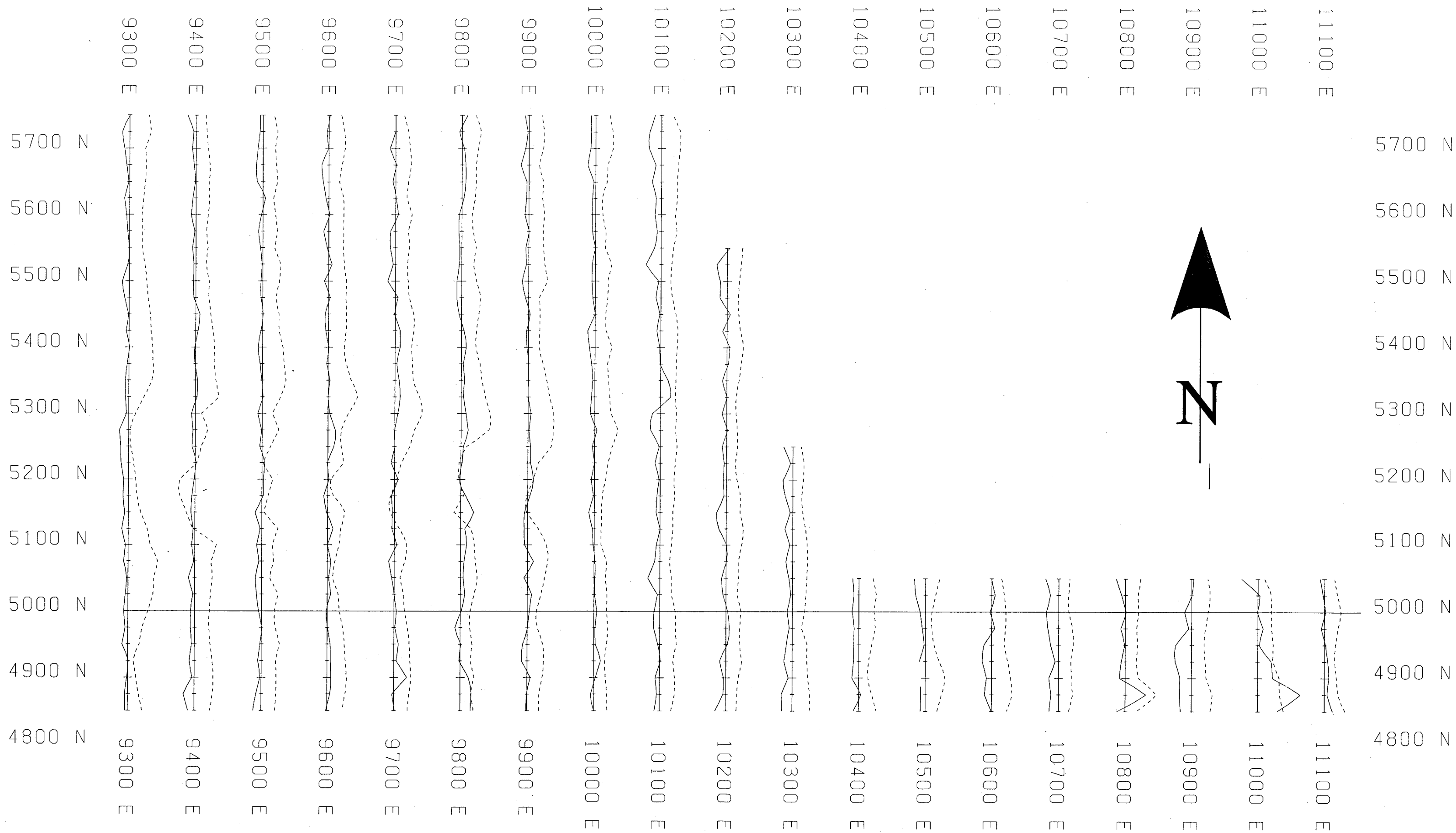
EXPATRIATE RESOURCES	REDLINE PROPERTY
TOTAL FIELD MAGNETICS	MINING DISTRICT: WATSON LAKE
	NTS: 105 G/5   SCALE: 1:5000
AMEROK GEOSCIENCES LTD.	OPERATOR: P.C./MP./D.G.
	DATE: 06 MAR 96   DRAWN BY: K.C.



PROVISIONAL - 220 Hz

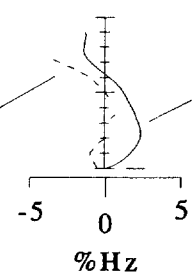
093491 #3

EXPATRIATE RESOURCES LTD.	REDLINE PROPERTY
MAXMIN I-10 SURVEY 220 Hz-100m COILS	MINING DISTRICT: WATSON LAKE
	NTS: 105 G/5   SCALE: 1:5000
	OPERATOR: P.C./MP/D.G.
AMEROK GEOSCIENCES LTD.	DATE: 05 MAR 96   DRAWN BY: K.C.



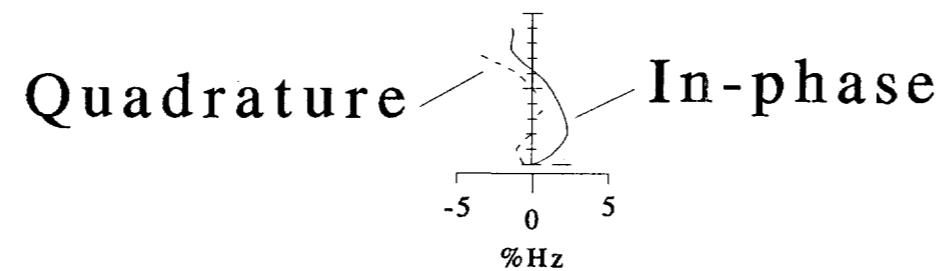
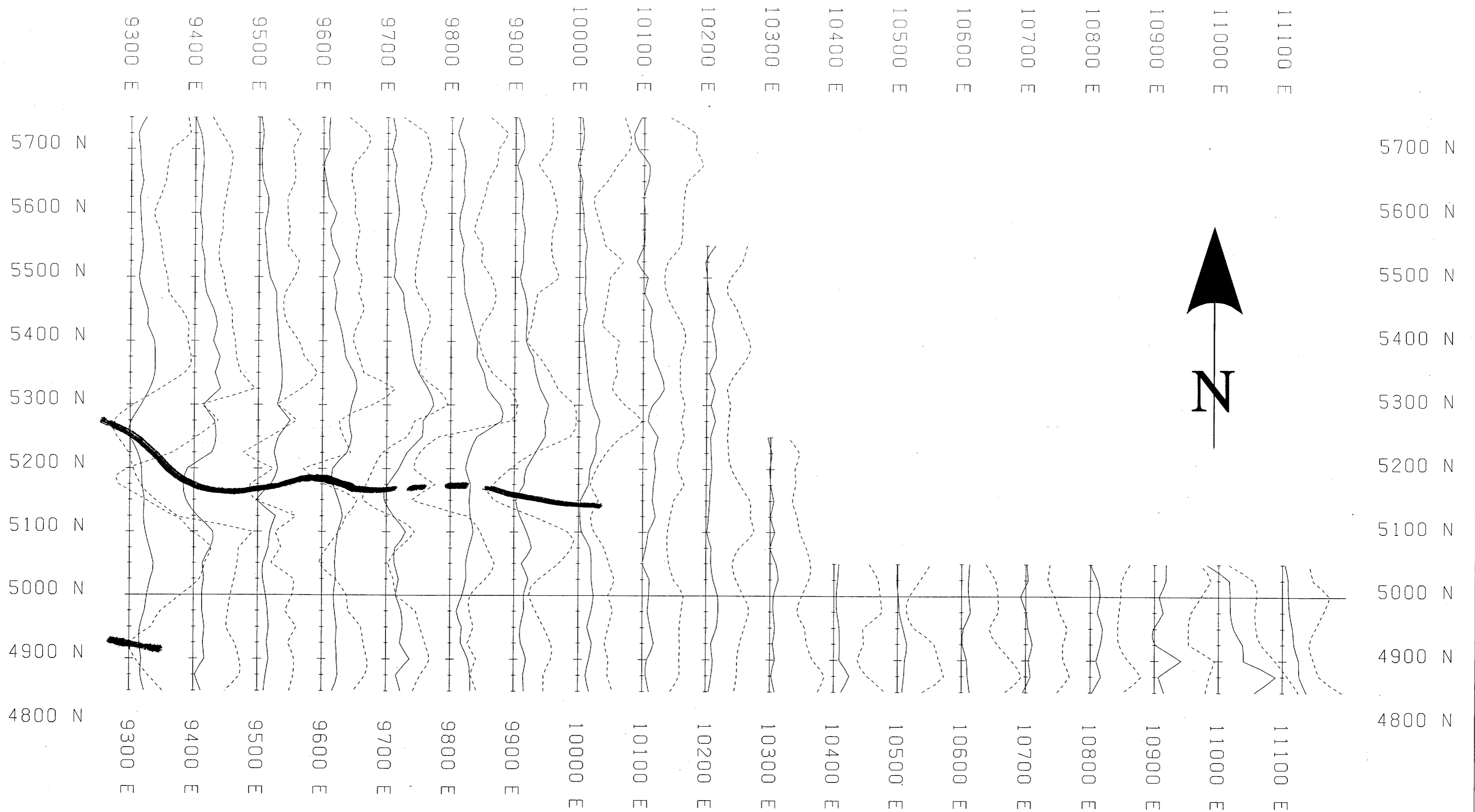
093491 #4

Quadrature In-phase



PROVISIONAL - 880 Hz

EXPATRIATE RESOURCES LTD.	REDLINE PROPERTY
MAXMIN I-HO SURVEY	MINING DISTRICT: WATSON LAKE
880 Hz-100m COILS	NTS: 105 G/5   SCALE: 1:5000
	OPERATOR: P.C./MP/D.G.
AMEROK GEOSCIENCES LTD.	DATE: 05 MAR 96   DRAWN BY: K.C.



0 100 metres

093491 #5

PROVISIONAL - 3520 Hz

EXPATRIATE RESOURCES LTD.	REDLINE PROPERTY
MAXMIN I-10 SURVEY	MINING DISTRICT: WATSON LAKE
3520 Hz-100m COILS	NTS: 105 G/5   SCALE: 1:5000
AMEROK GEOSCIENCES LTD.	OPERATOR: P.C./MP/D.G.
	DATE: 05 MAR 96   DRAWN BY: K.C.