

ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

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ASSESSMENT REPORT

093 57

describing

GEOLOGICAL, GEOCHEMICAL AND PROSPECTING SURVEYS

in the

MILES RIDGE AREA, CANALASK PROPERTY

Cana 1-6	YA97083-YA97088
White 1-18	YB38234-YB38251
White 20	YB38252
Onion 1-13	YA96595-YA96607
Onion 14-25	YA97913-YA97924
WR 1-16	YB96868-YB96883

NTS 115F/15,16 and 115K/1,2
Latitude 61°58N' Longitude 140°37W'

in the

Whitehorse Mining District
Yukon Territory

Prepared by

Archer, Cathro & Associates (1981) Limited

for

EXPATRIATE RESOURCES LTD.

by

R.C. Carne, M.Sc., P. Geo.

February, 1999

Field work conducted between July 1 and 15, 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 \$ 29,200.00.

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

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SUMMARY AND RECOMMENDATIONS

The 192 claim Canalask property is 100% owned by Expatriate Resources Ltd. Exploration in 1998 was carried out over the northwest half of the property on Miles Ridge where an elongate mafic-ultramafic sill hosts nickel, copper and platinum group element (PGE) mineralization similar to that at the former Wellgreen Mine some 90 km to the southeast, as well as elsewhere in the Kluane Range.

The Miles Ridge area is located in southwest Yukon Territory along the northwest edge of the central Kluane Range. The property adjoins the Alaska Highway about 30 km southeast of Beaver Creek, the nearest community and airport. Tidewater access is available at the deepsea port of Haines, Alaska about 500 km to the southeast or Valdez, Alaska which is 580 km to the southwest.

The Canalask property covers nearly the entire length of the 20 km long White River Mafic-Ultramafic Complex. The bulk of historical exploration on the property has focussed on the Main Zone and other nearby targets which lie east of the White River. The Onion and Sax Showings occur at high elevations on Miles Ridge at the far west end of the intrusive body, about 7 km to the northwest. Although nickel-copper-PGE mineralization was discovered here concurrently with the Main Zone in 1952, a much lower level of exploration has been carried out on Miles Ridge. This is largely because, until the present land position was assembled by Expatriate, the Main Zone, Onion-Sax Zone and intervening area of potential mineralization were individually held by separate operators.

Geology and mineralization on Miles Ridge are similar to the Wellgreen Mine where open pit, bulk tonnage reserves are estimated at 49.9 million tonnes grading 0.36% nickel, 0.35% copper, 510 ppb platinum and 340 ppb palladium. Mineralization consists of massive sulphide lenses and areas of heavily disseminated sulphides (principally pyrrhotite with lesser chalcopyrite and pentlandite) in gabbro and pyroxenite emplaced along the margins of ultramafic sills. A unique characteristic of the Wellgreen occurrence and others in the area is the unusually high proportion of the rare PGE's. For example, a 9.8 m chip sample across mineralized gabbro at the Wellgreen discovery showing yielded a grade of 2.44% nickel, 2.07% copper, 0.94% cobalt, 2400 ppb platinum, 2200 ppb palladium, 1020 ppb gold, 560 ppb rhodium, 650 ppb ruthenium, 440 ppb osmium and 550 ppb iridium.

The only systematic exploration on Miles Ridge was carried out at the northwest end in 1988 and consisted of grid soil sampling and ground geophysical surveys. An airborne geophysical survey was conducted over the entire Canalask property, including Miles Ridge, by Expatriate in 1996.

The 1998 exploration program was designed to build upon positive results of the earlier work. The sixteen day program (including mobilization and demobilization) incorporated wide-ranging prospecting and silt sampling to explore areas of Miles Ridge which have had relatively little exploration carried out in the in past.

Five areas of mineralization or potential mineralization are present on Miles Ridge over a distance of 7 km. These are known, from northwest to southeast, as the Onion, Rex, Sax, Cessna and Polestar Zones. The Onion, Rex and Sax Zones were explored by prospecting, grid soil

geochemistry and detailed geophysical surveys in 1987 and 1988. The Polestar Zone was defined by 1988 soil geochemical sampling while the Cessna Zone is a new discovery resulting from the 1998 work.

Three separate mineral occurrences have been discovered by previous exploration in the **Onion Zone**, located at the extreme northwest end of the White River Mafic-Ultramafic Complex.

The Onion Discovery Showing has received most of the historical prospecting and trenching. Limonite float collected in 1987 from old sloughed-in trenches assayed 3.20% nickel, 0.65% copper, 440 ppb platinum and 1050 ppb palladium. A 2 m chip sample taken from another of the old trenches across the showing area returned values of 0.36% nickel, 0.15% copper, 926 ppb platinum and 1989 ppb palladium. L. Hulbert of the Geological Survey of Canada (GSC) also took samples from the showing which assayed up to 2000 ppb platinum, 1700 ppb palladium, 780 ppb rhodium, 840 ppb iridium, 2500 ppb ruthenium and 1000 ppb osmium. The apparently similar Onion Northwest Showing, about 150 m to the northwest of the Discovery Showing, was not relocated or resampled in 1987, 1988 or 1998.

The Onion Southeast Showing was found in 1987 and consists of sheared and weathered rusty gabbro with no visible sulphide minerals. A grab sample of this material assayed 19.2% nickel, 0.02% copper and 4100 ppb gold but only 50 ppb platinum and 100 ppb palladium. The rather unusual metal ratios of this material suggest that secondary processes such as supergene enrichment (of nickel and gold) and leaching (of copper and PGE's) have affected the surface showings. Soils collected from the Onion Zone area in 1988 are moderately anomalous for nickel

(up to 2900 ppm), copper (up to 444 ppm), platinum (up to 130 ppb), palladium (up to 120 ppb) and gold (up to 30 ppb). Silt samples collected downstream in 1998 likewise returned moderately anomalous values of copper and nickel. The 1988 ground geophysical survey outlined moderate strength conductivity response in a large area surrounding the known mineralization. This was confirmed by the 1996 airborne geophysical survey.

The **Rex Zone** lies about 500 m southeast of the Onion Zone area. No mineralization has yet been found to explain the strongly anomalous soil geochemical response from the 1988 survey. Maximum values for nickel (2680 ppm), copper (1040 ppm), platinum (190 ppb), palladium (120 ppb) and gold (91 ppb) coincide with an elongate, very strong VLF-EM anomaly that lies along the footwall contact of the sill. The area is reflected as a pronounced resistivity low by the airborne geophysical data. Silt samples draining the anomaly as well as a large area in the footwall rocks of the Rex Zone returned elevated values of nickel (805 ppm) and copper (489 ppm).

The **Sax Zone** sits along the footwall contact of the sill about 400 m southeast of the Rex Zone. Soil samples are anomalous both within the area underlain by mafic-ultramafic rocks as well as the footwall quartz-carbonate zone and altered andesite. Soil geochemical values range up to 2800 ppm nickel, 1550 ppm copper, 250 ppm platinum, 150 ppb palladium and 1161 ppb gold and are highest in the footwall sequence, indicating a strong potential for both magmatic as well as precious metal enriched exocontact mineralization. The area of interest is also reflected by anomalous VLF-EM response and airborne resistivity data. The only mineralization known in the Sax Zone is a 1988 discovery of gabbro float boulders containing disseminated pyrrhotite and

chalcopyrite that returned values of 0.44% nickel, 0.22% copper, 140 ppb platinum and 440 ppb palladium.

The **Cessna Zone** is a 1998 discovery. Poorly exposed sheared limonitic rock tentatively identified as gabbro occurs along the footwall contact of the mafic-ultramafic complex. A chip sample across a 4 m wide exposure returned encouraging values of 0.21% nickel, 0.18% copper, 140 ppb platinum and 630 ppb palladium.

The **Polestar Zone** occurs within a narrow section of the White River Mafic-Ultramafic Complex near the southeast end of Miles Ridge. A 1.5 m chip sample of leached and oxidized gabbro returned values of 0.21% nickel, 0.18% copper, <140 ppb platinum and 420 ppb palladium.

A distinctive brown weathering quartz-carbonate alteration zone about 50 m thick affects country rocks along both hanging wall and footwall contacts of the sill. Relatively limited sampling by the GSC has returned anomalous precious metal values (up to 330 ppb platinum and 510 ppb palladium) from sulphur-poor rocks (0.37%).

All five areas of sulphide mineral concentration on Miles Ridge are reflected in the 1996 airborne geophysical survey by broad resistivity lows, indicating anomalous concentrations of disseminated sulphide mineralization. Detailed ground geophysical surveys carried out in 1988 over the Onion-Rex-Sax Zone area further demonstrate that the most conductive areas lie along the footwall contact where mineralized gabbros similar to the Wellgreen Mine have been located by the relatively low level of prospecting carried out to date.

Another common characteristic of all five identified areas of mineralization or potential mineralization on Miles Ridge are pronounced embayments on the floor of the sill. These are known to be important controls on localization of sulphide-enriched gabbro at the Wellgreen Mine. Interaction with sulphur bearing and reactive wallrocks, such as limestones and calcareous shales, are also regionally important mechanisms for controlling sulphide mineral concentration and these rocks form the footwall to the intrusive complex at the Onion, Rex and Cessna Zones.

The major difficulty facing a proper evaluation of the nickel-copper PGE potential of the Miles Ridge area is that mineralized zones are oxidized, recessive and talus covered. This is largely because much of the area lies above the limits of Pleistocene valley glaciation but also because the relatively narrow mafic-ultramafic sills are extensively fractured and serpentinized. Soil geochemistry is effective at outlining areas of potential mineralization and the existing grids should be expanded to cover all areas of mafic-ultramafic rocks. Exploration experience at the nearby Wellgreen property has shown that diamond drilling is the most effective tool for a definitive preliminary evaluation. Magnetic and VLF-EM geophysical surveys covering the geochemical anomalies at 50 by 20 m station spacing have proven to be an inexpensive but very effective guide to locating specific diamond drill targets.

A proposed budget for this work is on the following page.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



R.C. Carne, M.Sc., P.Geo.

**PROPOSED 1999 BUDGET
MILES RIDGE AREA, CANALASK PROPERTY**

Diamond drilling 1000 m @ \$120/m, incl. mob-demob, fuel, etc.	\$120,000
Labour	75,000
Room and board	50,000
Helicopter	35,000
Geophysical survey	30,000
Analyses	15,000
Truck (incl. fuel, insurance, etc.)	10,000
Office	7,000
Travel/freight	6,000
Communication, computer, survey equipment rental	4,000
Assessment filing	4,000
Management	<u>12,000</u>
	\$368,000
	GST
	<u>25,800</u>
	<u>\$393,800</u>

INTRODUCTION

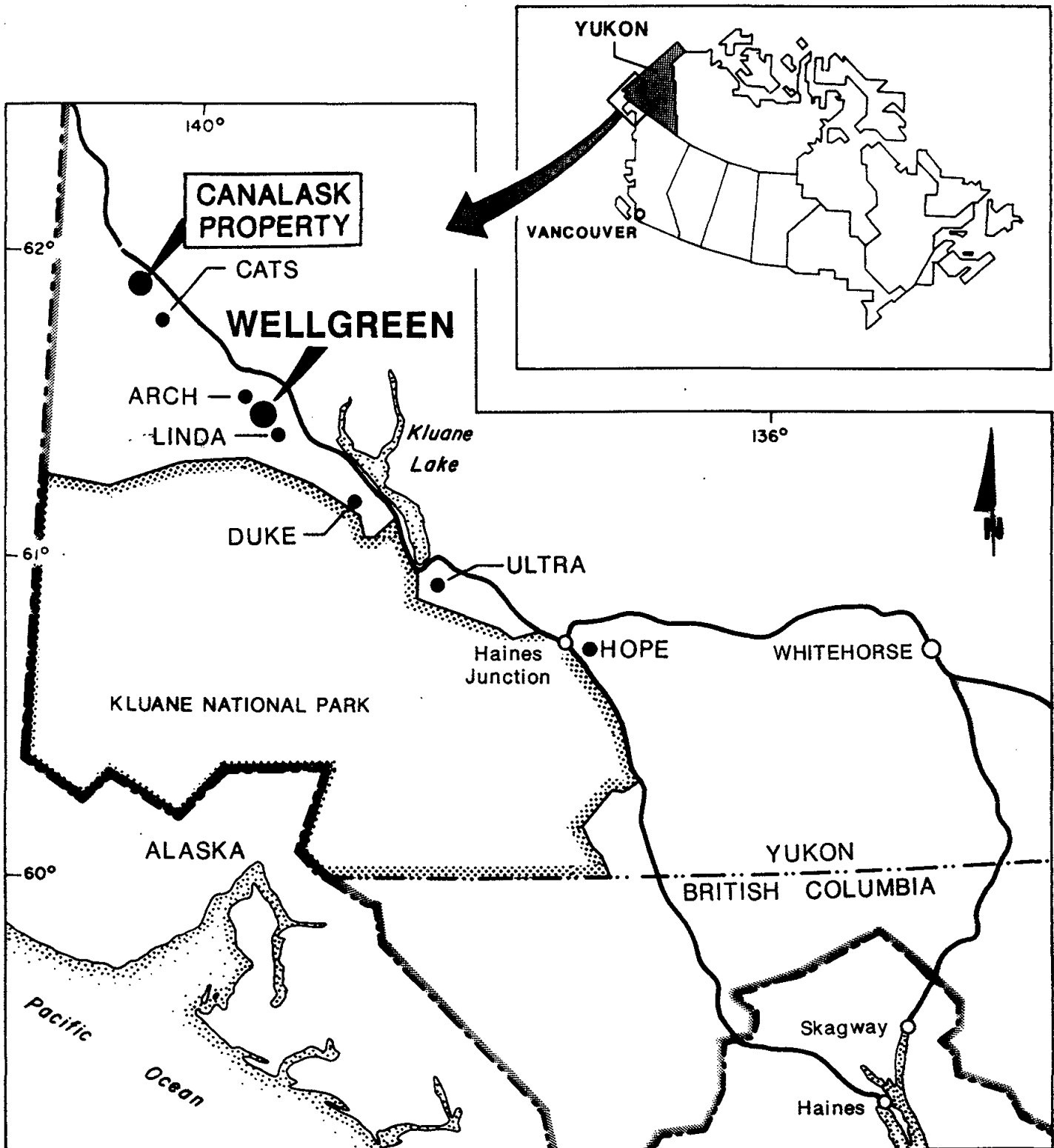
The Canalask property is 100% owned by Expatriate Resources Ltd. The claims cover nearly the entire length of the 20 km long White River Mafic-Ultramafic Complex. The bulk of historical exploration on the property by Expatriate and earlier operators has focussed on the Canalask Main Zone and other nearby targets which lie east of the White River. The Onion and Sax Zone showings occur on Miles Ridge at the far west end of the intrusive body about 7 km to the northwest. Although nickel-copper-PGE mineralization was discovered here concurrently with the Main Zone in 1952, a much lower level of exploration has been carried out on Miles Ridge. This is largely because, until the present land position was assembled by Expatriate, the Main Zone, Onion-Sax Zone and intervening area of potential mineralization were individually held by separate operators. Geology and mineralization on Miles Ridge area similar to those at the former Wellgreen Mine located 90 km to the southeast.

The 1998 exploration program was funded by Expatriate and consisted of prospecting, geological mapping and detailed silt sampling surveys to evaluate the largely untested area in the altered footwall of the mafic-ultramafic complex as well as the potential for mineralization within a 5 km long, relatively unexplored segment of the complex itself between the Onion-Sax and Main Zones. The field work was carried out under the author's supervision between, and including, July 1 and 15, 1998. The author's Statement of Qualifications is included in Appendix I while a List of Personnel who worked on the project appears in Appendix II.

PROPERTY, LOCATION AND ACCESS

The Canalask property is located in southwest Yukon Territory, just south of the Alaska Highway on NTS map sheets 115F/15, 16 and 115K/1, 2 (Figure 1). The 1998 exploration was carried out on Miles Ridge which is centred at latitude $61^{\circ}58'$ and longitude $140^{\circ}37'$ in the Whitehorse Mining District. The western portion of the ridge has no road access although a horse trail running along the west side of the White River provides foot access to lower elevations. The paved Alaska Highway adjoins the northeast edge of the property. The nearest tidewater access is the deepsea port of Haines Alaska, 500 km to the southeast and Valdez, Alaska which is 580 km to the southwest. Meals, lodging, telephone service and fuel supplies are available in the community of Beaver Creek, some 30 km to the northeast along the Alaska Highway. The White River Motor Lodge located near the north-central edge of the Canalask property, was closed during the 1998 field season. Exploration was conducted from a temporary tent camp near the Alaska Highway on the east half of the claim block with access to Miles Ridge work areas by foot from the highway.

The Canalask property in total consists of 192 contiguous claims covering approximately 4000 hectares (Figure 2) in the Whitehorse Mining District. The 1998 prospecting, geological mapping and geochemical exploration program was carried out on the northwest part of the property on Miles Ridge as listed below.



● Nickel ± copper - platinum occurrence

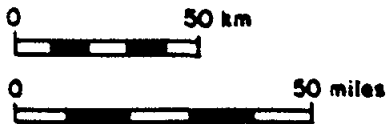


FIGURE 1
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOCATION
 CANALASK PROPERTY
 KLUANE DISTRICT, YUKON
 EXPATRIATE RESOURCES LTD.

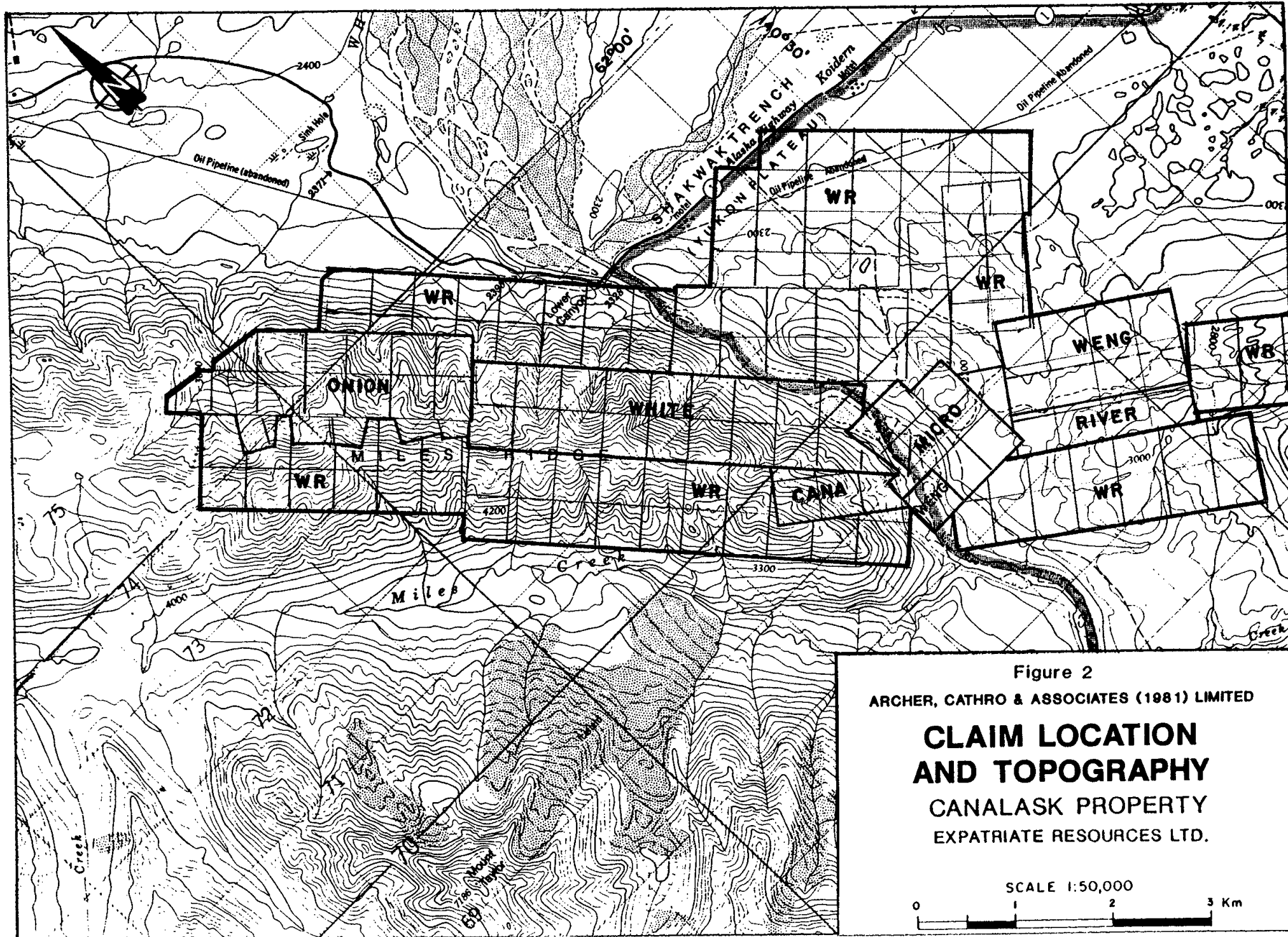
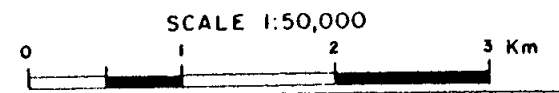


Figure 2
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CLAIM LOCATION
 AND TOPOGRAPHY
 CANALASK PROPERTY
 EXPATRIATE RESOURCES LTD.**



<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Cana 1-6	YA97083-YA97088	April 10, 2010
White 1-18	YB38234-YB38251	April 10, 2011
20	YB38252	April 10, 2011
Onion 1-5	YA96595-YA96599	March 19, 2001
6-13	YA96600-YA96607	March 19, 2008
14-17	YA97913-YA97916	March 19, 2001
18-25	YA97917-YA97924	March 19, 2008
WR 1-16	YB96868-YB96883	April 10, 2002

*Does not include assessment credit applied for as a result of 1998 exploration.

TOPOGRAPHY AND VEGETATION

The west half of the Canalask property straddles the northwest-trending Miles Ridge which has a maximum elevation of approximately 1850 m. The relatively rugged northeast-facing slope explored in 1998 is vegetated with mature spruce forest at lower elevations giving way successively to willow and black birch covered slopes and, eventually, to sub-alpine vegetation at higher levels. Much of the higher parts of Miles Ridge lie at or above the upper limit of Pleistocene glaciation.

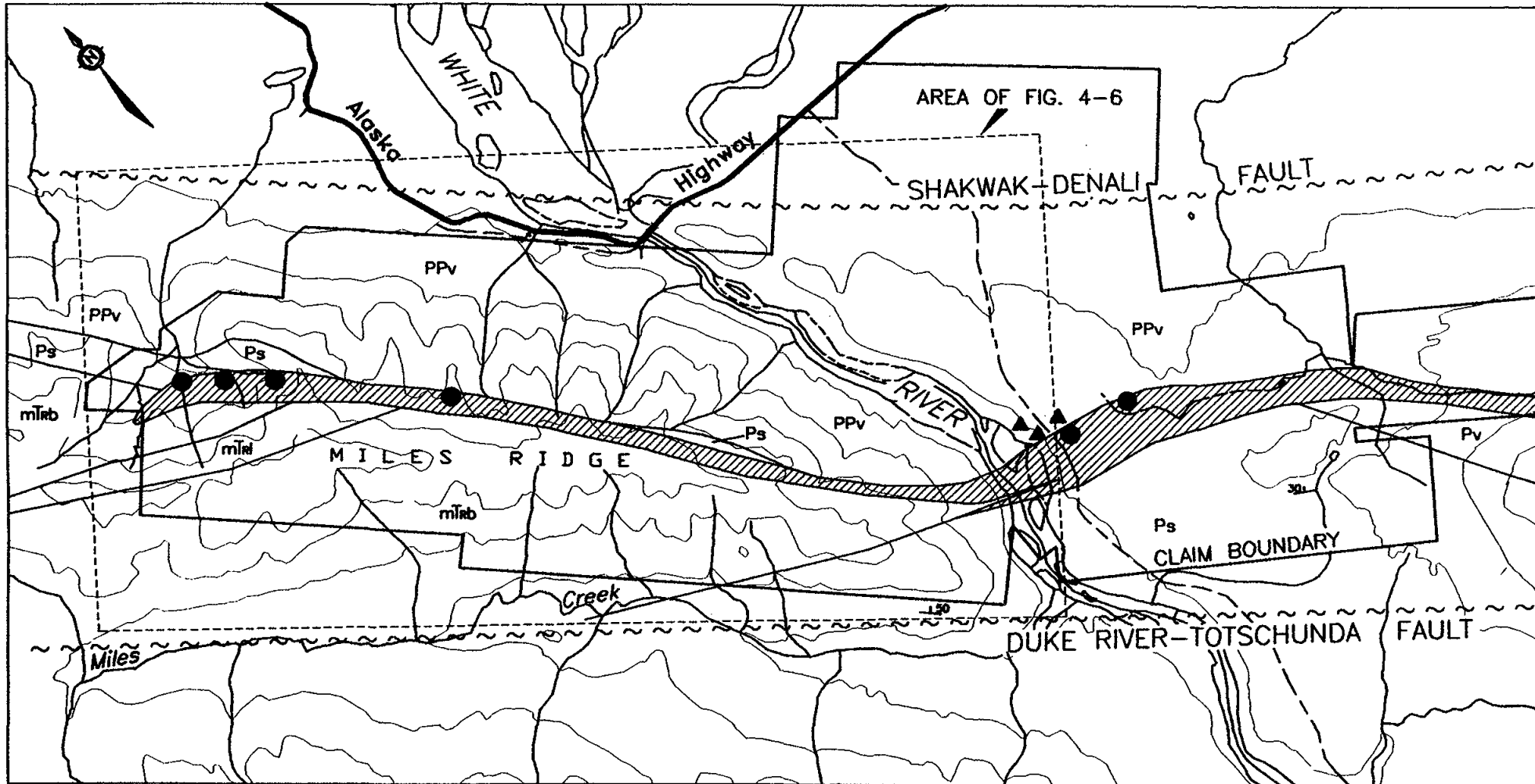
HISTORY AND ECONOMIC POTENTIAL OF NEARBY OCCURRENCES

The Wellgreen Mine surface showing is located in similar rocks 90 km to the southeast. It was discovered by prospecting in 1952 and immediately optioned by Hudson Bay Exploration and Development Company Limited which developed and eventually mined the deposit in 1972 and 1973.

Intense prospecting activity in the Kluane Ranges was spurred by the Wellgreen discovery. Nickel mineralization was discovered in Permian to Triassic volcanic sedimentary rocks forming a rusty bluff on the east side of the White River in 1952 by P. Eikland, W. Thierault and F. Hickey. This area, which eventually became known as the Canalask Discovery or Main Zone (Figure 3), received relatively intense surface and underground exploration between 1953 and 1984. Between 1986 and 1996 exploration focussed on adjacent areas in an attempt to expand the Main Zone reserves of 390,000 tonnes grading 1.35% nickel.

The Onion Zone occurrences (Figure 3) were originally staked by Prospectors Airways Ltd. in July 1952 and lie about 7 km northwest of the Main Zone. The showings were subsequently held by P. Johnson and W. Abraham in 1956, G. Harris in 1957, Conwest Exploration Co. Ltd. in 1960, Cominco Ltd. in 1966, J. Enoch in 1967, D. Backstrom in 1968 and by P. Verslucce and C. Gibbons in 1969. Despite the variety of operators during this period, exploration was limited to minor prospecting and hand trenching while higher profile surface and underground work was being carried out on the nearby Canalask Main Zone.

Early work on Miles Ridge was primarily directed at testing the nickel potential of the Onion Zone. The showing area was restaked as part of the current Onion claims in 1987 by



LEGEND

LITHOLOGIES

MIDDLE TRIASSIC

- mTrb amygdoloidal basalt
- mTrl massive limestone

WHITE RIVER MAFIC-ULTRAMAFIC COMPLEX

- mTrp / pendentite, dunite, pyroxenite, gabbro

**PENNSYLVANIAN TO LOWER PERMIAN
SKOLAI GROUP**

- Ps Hasan Creek Fm. - limestone, greywacke, phyllite
- PPv Station Creek Fm. - massive andesite flows, tuff

SYMBOLS

- approximate geological boundary
- major fault
- Ni-Cu±PGE magmatic mineralization
- Ni-Cu-Co exocontact mineralization
- bedding

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY GEOLOGY
CANALASK PROPERTY**

SCALE 1:50,000



Kluane Joint Venture (All-North Resources Ltd. and Chevron Minerals Ltd.) which carried out minor surface geochemical sampling the same year to evaluate the PGE potential. In 1988 systematic grid soil sampling and geophysical surveys continued under an option agreement with Rexford Minerals Ltd.

In 1988 Expatriate purchased a 100% interest in the Micro, Weng and Cana claims in the White River area (including the Main Zone) and the Onion claims at the west end of the current claim block. Intervening and surrounding ground was staked by Expatriate in 1993 (White and River claims) before carrying out geophysical surveys and trenching on the Main Zone. In 1994 and 1995 Expatriate optioned the property to Cachet Enterprises Corp. which drilled ten holes in the Main Zone area before relinquishing the property option.

Expatriate staked the WR claims in 1996 to acquire remaining areas of relatively unexplored potential between the Onion and Main Zones as well as areas along strike to the east. Airborne geophysical surveys flown by Dighem over the entire property in September 1996 were followed up in early 1997 with ground geophysical surveys in the Main Zone area to guide additional diamond drilling.

Both magmatic and epigenetic styles of nickel-copper-cobalt±PGE mineralization are present in the White River Mafic-Ultramafic Complex east of the White River. Disseminated pyrrhotite-pentlandite and chalcopyrite occur in the marginal facies gabbro-pyroxenite in a fashion similar to the former Wellgreen Mine located 90 km to the southeast. The best values of four or five trench and drill hole intersections were obtained from gabbro in Hole 73-07 about 2 km east of the river where a 7.0 m section assayed 0.76% nickel, 0.24% copper, 440 ppb platinum and

1370 ppb palladium. Because of glacial overburden cover and its relatively recessive nature, little additional exploration has been carried out for this type of mineralization.

The most significant mineralization discovered to date occurs just east of the river in footwall rocks north of the mafic-ultramafic complex in an area of extensive metasomatic alteration. Albitized andesite tuffs with intercalated limestone (often hosting calc-silicate skarns) and hornfelsed argillite are cut by small sill-like intrusions of gabbro. The altered rocks contain structurally controlled disseminations, fracture fillings, veins, breccia fillings and irregular replacements of pyrrhotite, pyrite, chalcopyrite and pentlandite in up to semi-massive or massive quantities. This style of mineralization was the focus of early exploration on the property.

Two parallel, en echelon zones of mineralization and alteration are present. The Main Zone forms a steeply dipping tabular body about 130 m long, averaging 23 m in width. The most recent resource calculation reported an inventory of 390,235 tonnes grading 1.35% nickel with only minor copper and PGE's.

Preliminary metallurgical studies of material from the Main Zone have returned very encouraging results, including one flotation test that yielded 94% recovery and produced a concentrate grading 19.7% nickel. Extensive surface and underground exploration of the Main Zone during the 1950's and 1960's has, however, limited opportunities for reserve expansion along strike although the deposit is still open to depth.

The Footwall Zone lies about 40 m north of, and stratigraphically below, the Main Zone although with a strike length greater than 600 m it is much more extensive. Mineralization consists of erratic narrow massive sulphide veins and replacements that are enveloped in zones of

fracture filling and disseminated sulphides. Although interesting widths of mineralization were encountered, the overall grade and economic potential of this zone are relatively low.

The former Wellgreen Mine is the most extensively explored nickel-copper-PGE deposit in the Kluane Range mineral belt. Following discovery in 1952, intensive underground exploration and development led to limited production in 1972-73 by Hudson-Yukon Mining Co. Limited, a subsidiary of Hudson Bay Exploration and Development Company Limited. The mine closed due to falling metal prices and excess dilution from bad ground conditions, compounded by unexpectedly erratic distribution of the massive sulphide ore lenses.

Kluane Joint Venture optioned the Wellgreen property in 1986 with the purpose of re-evaluating the PGE potential as well as establishing the viability of bulk surface mining a larger tonnage of lower grade material than attempted in the 1970's. All-North eventually acquired a 100% working interest in the project from Hudson-Yukon and Chevron. An extensive program of surface and underground exploration culminated in 1990 with an open pittable reserve estimated at 49.9 million tonnes grading 0.36% nickel, 0.35% copper, 510 ppb platinum and 340 ppb palladium. Assays as high as 4.57% nickel, 1.58% copper, 4140 ppb platinum and 3080 ppb palladium over 6 m have been recorded from drill intersections of massive sulphide lenses interpreted late stage as magmatic segregations within the larger mafic-ultramafic host. Metallurgical tests using conventional flotation techniques indicate recoveries of 80-85% for nickel, 95% for copper and 70% for platinum and palladium. A unique characteristic of the Wellgreen occurrence and others in the area is the unusually high proportion of the rare PGE's. For example, a 9.8 m chip sample across the East Zone surface discovery showing at Wellgreen

yielded a grade of 2.44% nickel, 2.07% copper, 0.94% cobalt, 2400 ppb platinum, 2200 ppb palladium, 1020 ppb gold, 560 ppb rhodium, 650 ppb ruthenium, 440 ppb osmium and 550 ppb iridium.

The Wellgreen Mine with adjacent Arch and Linda properties was optioned by Northern Platinum Ltd. from All-North in 1994. Only minor surface exploration has been carried out since.

1998 EXPLORATION PROGRAM

The 1998 program on the Canalask property was designed to explore for nickel-copper-PGE mafic and ultramafic hosted magmatic mineralization in the relatively unexplored portion of the intrusive complex on Miles Ridge between the Onion and Main Zones as well as to evaluate the potential for Main Zone type mineralization in the adjacent footwall rocks. No work was carried out to explore the relatively untested areas of previously known mineralization on Miles Ridge due to time constraints.

The sixteen day program (including mobilization and demobilization) was carried out by an experienced two-person crew under supervision of the author.

Each of the steep northeast-flowing creeks draining the White River mafic-ultramafic complex where it outcrops on Miles Ridge was prospected and silt sampled every 250 m (a total of 71 samples). In addition, 31 rock samples were collected during the course of geological mapping and prospecting.

GEOLOGY

Regional Geology

The Canalask property lies along the northwest edge of Wrangellia Terrane within a steeply dipping package of Late Paleozoic and Early Mesozoic volcanic and sedimentary rocks that is bounded on the northeast by the Shakwak-Denali Fault system and on the southwest by the Duke River Fault.

Skolai Group

The oldest rocks in the Miles Ridge area are pale green pyroclastic andesites and interbedded phyllites of the Pennsylvanian to Permian Station Creek Formation which forms the lower part of the Skolai Group. Pyroclastic rocks, consisting of lapilli and lapilli crystal tuff, are fine to medium grained and thin bedded to massive. Agglomerate horizons are also locally present. Crystal fragments within the tuff include plagioclase, augite, hornblende and infrequent pseudomorphs of serpentine after olivine. The upper Station Creek Formation is characterized by interbedded black phyllite, siltstone, argillaceous limestone and cherty argillites with minor tuff horizons that decrease up section. Total thickness of the formation regionally exceeds 1000 m.

The Lower Permian Hasen Creek Formation forms the upper part of the Skolai Group, attaining a maximum thickness of approximately 800 m. The unit consists of various sedimentary rocks including black phyllite, chert, siltstone, limestone and conglomerate. The basal contact with Station Creek Formation is gradational and arbitrarily placed at the uppermost volcanic unit.

Nikolai Group

The Middle to Late Triassic Nikolai Group is a kilometre or more thick sequence of basalt flows with minor interbedded limestone that overlies the Skolai Group rocks along an angular unconformity. Flows are thin (2 to 10 m), vesicular to amygdaloidal and are locally hematitic, indicating shallow water to subaerial deposition.

Mafic-Ultramafic Intrusions

Mafic and ultramafic intrusions are common throughout the Kluane front ranges but these are generally confined to near the contact between the Station Creek and Hasen Creek Formations or to within a short stratigraphic distance of the contact.

A significant number of these intrusions are ultramafic dominated complexes which are associated with anomalous magmatic sulphide concentrations. Intrusions with proven economic potential generally have thin or discontinuous marginal gabbro zones at their base or in areas of complex interdigitation with country rocks. The generally fine grained to phyrlic marginal gabbros can be overlain or flanked successively by melano-gabbro, clinopyroxenite, olivine clinopyroxenite, peridotite and dunite. Gabbro and pyroxenite-hosted magmatic sulphide concentrations, either as massive sulphide lenses or pods and heavy disseminations, carry potentially economic levels of nickel-copper±PGE±gold mineralization in a number of locations. These sill-like bodies vary in thickness from less than 10 m to 1000 m and may attain strike lengths up to 20 km. A Lower to Middle Triassic age for the intrusions is indicated by crosscutting relationships with the host rocks.

Property Geology

Geology of the west Canalask property is summarized on Figure 3. Detailed geology is given for the Miles Ridge area in particular on Figure 4.

Oldest rocks on the property are massive bedded andesite flows and crystal tuffs of the Pennsylvanian to Permian Station Creek Formation (Unit PPv). Porphyritic andesite flow rocks and/or subvolcanic intrusions that occur near the base of this unit have previously been mapped as diorite. Minor interbedded black carbonaceous phyllite present near the top of the unit is not subdivided on Figure 4. Skolai Formation volcanic rocks are overlain with apparent conformity by limestone, greywacke and black carbonaceous phyllite of the Lower Permian Hasen Creek Formation (Unit Ps).

Middle Triassic Nikolai Group amygdaloidal basalt (Unit mTrb) overlies the Skolai Group rocks along a pronounced angular unconformity. Lenses of massive limestone (Unit mTrl) occur within the basalt.

Both Skolai and Nikolai Group rocks are intruded by an elongate sill called the White River Mafic-Ultramafic Complex (Unit mTrp). The sill occupies the unconformity in the Miles Ridge area while east of the White River it appears to cut slightly down-section to the Hasen Creek Formation-Station Creek Formation contact. On Miles Ridge the sill varies in thickness from 100 to 250 m and dips to the southwest at about 50°. The intrusive rock is comprised of dunite, peridotite and clinopyroxenite which, due to a relatively high level of serpentinization, was not differentiated from one another in the field.

The north margin of the complex is the original floor of the sill while the south margin is the upper intrusive contact. The ultramafic rocks grade abruptly into a marginal quartz-carbonate alteration zone about 50 m thick at both footwall and hanging wall contacts. The sill appears to pinch out at the northwest end of the property.

The White River Mafic-Ultramafic Complex on Miles Ridge is dominated by ultramafic rock types which are largely recessive. Consequently, much of the complex is talus covered despite the relatively rugged terrain so that petrologic relationships can only be derived through float mapping.

A thin (30 cm to 3 m) zone of marginal gabbro is exposed in two old hand trenches along the basal contact in the Onion Zone area at the northwest end of Miles Ridge (Figure 4). This is possibly present along much of the entire base of the intrusion as well as along the upper contact. The gabbro is medium to coarse grained and highly oxidized at surface due to weathering of disseminated to semi-massive sulphide minerals. It typically consists of clinopyroxene (45-65%), plagioclase (30-50%), sulphide minerals (0-5%), phlogopite (0-1%) and chromite (0-0.2%). The gabbro grades upward over a very short distance to ultramafic rocks.

All ultramafic lithologies are medium to coarse grained and are a dark green to black due to extensive serpentinization. A lower layer of clinopyroxene rich poikilitic peridotite (or pyroxenite) about 40 to 60 m thick forms the base of the ultramafic assemblage. This zone often contains significant enrichments of intercumulus sulphide minerals, principally pyrrhotite.

About 50 m above the base of the complex a phase change is present where clinopyroxene disappears as a cumulus phase and the volume of poikilitic clinopyroxene decreases abruptly. Subsequent lithologies consist of feldspathic peridotite to dunite comprised of olivine±chromite cumulates with a variably high proportion of intercumulus plagioclase.

All varieties of ultramafic rocks contain magnetite as small grains, patches and anastomosing veins. The relative abundance of magnetite is proportional to the degree of serpentinization.

GEOCHEMISTRY AND MINERALIZATION

Introduction

Detailed grid soil sampling was carried out in 1988 over the Onion-Rex-Sax Zones and in the area of the Polestar Zone (Figure 6). That data is not reproduced on the maps attached to this report although a summary is provided below.

The 1988 Onion-Rex-Sax Zone survey results demonstrate that high nickel values are closely associated with the mafic-ultramafic complex. The average background value is about 1200 ppm nickel in the vicinity of the ultramafic rocks in contrast to less than 100 ppm in soils overlying wall rocks. Anomalous values, exceeding 2000 ppm nickel, are found intermittently along the entire length of the complex but there is a greater concentration of strongly anomalous values within the Onion and Sax Zones.

The average background value for copper in soil samples is about 150 ppm copper over all units. Anomalous copper response (>500 ppm) is concentrated in three areas that are slightly downhill from the Onion, Rex and Sax Zones in areas underlain by altered footwall rocks. Many of these samples are strongly anomalous, commonly exceeding 1000 ppm copper and ranging up to 17,000 ppm.

Background values for platinum and palladium in soil samples are about 30 ppb platinum and 40 ppb palladium, respectively. Anomalous platinum values (>100 ppb) tend to be coincident with anomalous palladium values (>100 ppb) and are concentrated in the Onion Zone and particularly in the Sax Zone where values up to 250 ppb platinum and 220 ppb palladium were obtained from soils.

The background value for gold in soil samples is less than 5 ppb. Anomalous values range up to 87 ppb and are almost entirely found in the immediate footwall of the Onion, Sax and Rex Zones. This may be due to footwall alteration-mineralization zones enriched in both copper and gold or downhill dispersion from magmatic mineralization at the footwall contact.

The 1988 soil sample survey at the southeast end of Miles Ridge revealed a 350 m long, continuous nickel, copper, platinum and palladium anomaly coincident with the mafic-ultramafic complex. The anomaly extends off the grid to the northwest in an unsampled area. Metal values are as high as 1730 ppm nickel, 205 ppm copper, 353 ppb platinum and 155 ppb palladium. The anomalous area coincides with the east half of the Polestar Zone where weathered and leached, mineralized gabbro was discovered in 1998.

Mineralization

On Miles Ridge nickel-copper-PGE mineralization has been noted at four locations along the northeast footwall contact of the mafic-ultramafic complex. Three of the occurrences are situated within the 700 m long Onion Zone at the head of Onion Creek. The fourth occurrence is found within the 500 m long Sax Zone at the south end of the 1988 soil sample grid (Figure 5) roughly 1 km to the southeast of the Onion Zone. The 400 m long Rex Zone lies along the footwall contact between the Onion and Sax Zones. The Rex Zone area has a number of coincident soil geochemical and geophysical anomalies. Further work may show that the Sax Zone and the Rex Zone are continuously mineralized or that all three zones are continuous at depth.

The Onion Zone contains the Discovery Showing which received most of the historical prospecting and trenching, plus two smaller showings, one 400 m to the northwest and the other 300 m to the southeast. In 1966 Cominco discovered near-massive, foliated pyrrhotite bands up

to 10 cm thick in both the Discovery and the Onion Northwest Showings. Old hand trenches, which are the only remaining evidence of this work, are sloughed in.

First record of mineralization on the Discovery Zone dates from 1956 when prospecting and hand trench sampling returned values tabulated below.

<u>Sample No.</u>	<u>Nickel (%)</u>	<u>Copper (%)</u>	<u>Other Metals</u>	<u>Thickness (cm)</u>
Possible 1	tr	22.2	1.3 opt silver	40
Possible 2	16.9	18.9	11.9% molybdenum	60
Possible 4a	17.1	tr	0.16% cobalt	45
Glacier 5/7	tr	23.9	---	75
Glacier 6/9	tr	18.9	1.0 opt silver	60

The copper-nickel values are similar to more recent assays of material from the Onion Zone.

The presence of high molybdenum values is unusual and not consistent with the Discovery Showing mineralization and may be due to analytical problems. In addition to pyrrhotite, pyrite and chalcopyrite, the Discovery Showing and the similar Onion Northwest Showing are reported to contain magnetite, pentlandite, heazlewoodite and niccolite.

The old trenches on the Discovery Showing are now largely sloughed in. In 1987 limonitic float containing a thin sulphide seam was collected from one of the old trenches and this specimen assayed 3.20% nickel, 0.65% copper, 440 ppb platinum, 1050 ppb palladium and 35 ppb gold. Three other float specimens of peridotite and gabbro containing traces of disseminated pyrrhotite returned values ranging up to 0.25% nickel, 0.06% copper, 150 ppb platinum, 280 ppb palladium and 55 ppb gold. A 2 m deep hand pit was dug at one of the old trench locations and rocky soil samples taken over 0.5 m intervals along the pit wall assayed up to 0.68% nickel, 0.30% copper, 820 ppb platinum, 1200 ppb palladium and 160 ppb gold.

In 1988 one of the old Discovery Zone trenches was cleaned out exposing 3 m of gabbro at the footwall contact of the complex with quartz-carbonate altered sedimentary rocks. This gabbro which contains up to 2% disseminated sulphides produced the assays shown below.

<u>Sample No.</u>	<u>Nickel (%)</u>	<u>Copper (%)</u>	<u>Platinum (ppb)</u>	<u>Palladium (ppb)</u>
Selected sample	2.66	1.08	1131	1611
Best 2 m interval				
floor	0.38	0.13	240	411
rib	0.36	0.15	926	1989

L. Hulbert of the GSC visited this showing and considered the sulphides to be due to primary magmatic segregation. Hulbert also took samples which returned up to 2000 ppb platinum, 1700 ppb palladium, 780 ppb rhodium, 840 ppb iridium, 2500 ppb ruthenium and 1000 ppb osmium.

The Onion Southeast Showing was found in 1987 and consists of strongly sheared and weathered, brown to dark green gabbro(?) containing malachite and minor limonite stains but no visible sulphides. A specimen of this mineralization assayed 19.2% nickel, 0.02% copper and 4100 ppb gold but only 50 ppb platinum and 100 ppb palladium. The anomalous metal content is believed to be due to the supergene enrichment (of nickel and gold) and leaching (of copper and PGE's).

The other significant nickel occurrence on the property is the Sax Showing, a 1988 discovery located 1800 m southeast of the Discovery Showing. A specimen of fine grained, limonitic gabbro float containing a trace of disseminated pyrrhotite and chalcopyrite returned values of 0.44% nickel, 0.22% copper, 140 ppb platinum, 440 ppb palladium and 35 ppb gold.

The quartz-carbonate alteration zone which lies along both the footwall and hanging wall contacts of the intrusion appear to be a metasomatic alteration front in which magnesium and iron are removed and silicon, calcium and carbon dioxide are introduced. In general this rock type has high precious metal contents. Samples taken by the GSC have returned up to 330 ppb platinum, 510 ppb palladium and 10 ppb gold from relatively sulphur-poor (0.37%) samples with about 1400 ppm chromium, 1600 ppm nickel and 2600 ppm copper. These samples are also characteristically arsenic rich (greater than 400 ppm).

Results of Geochemical Sampling

The 1998 exploration program was designed to evaluate the poorly exposed eastern part of the Miles Ridge portion of the Canalask property for both magmatic and exocontact styles of mineralization. Detailed silt sampling and prospecting were selected as tools for the initial approach. The better explored northwest part of the White River Mafic-Ultramafic Complex was not prospected because of time constraints although earlier surface exploration had outlined a number of areas of potential mineralization that still deserve additional follow up on a priority basis.

Results of the 1998 rock sampling program are summarized in Appendix III while Analytical Certificates for both rock and silt samples are included as Appendix IV. Rock sample locations are shown on Figure 5 while copper and nickel values are shown with silt sample results on Figure 6.

Two new areas of exploration interest on Miles Ridge are revealed from the 1998 rock sampling program. In the headwaters of Creek 5 in an area termed the Cessna Zone (after the

original claim name), a poorly exposed sheared limonitic rock tentatively identified as gabbro occurs along the footwall contact of the mafic-ultramafic complex. A chip sample across a 4 m wide exposure returned values of 2090 ppm nickel, 1770 ppm copper, 0.14 g/t (140 ppb) platinum and 0.63 g/t (630 ppb) palladium (Sample 59376). Several hundred metres southeast of this area a grab sample of green stained peridotite with pale coloured xenoliths gave values of 3090 ppm nickel and 2040 ppm copper as well as 2140 ppm chromium (Sample 59381). Precious metal analyses were not carried out on this sample.

Two anomalous samples were collected from the Polestar Zone at the southeast edge of the area explored in 1998. Sample 59384, a 1.5 m composite chip of sheared rock (possibly gabbro), returned values of 2080 ppm nickel, 1770 ppm copper, < 0.14 g/t (140 ppb) platinum and 0.42 g/t (420 ppb) palladium. This outcrop is highly oxidized and probably leached of some of the original copper and nickel values. A grab sample (59385) of siliceous altered footwall collected rock adjacent to this carried anomalous nickel (1010 ppm) and copper (1065 ppm) values.

Anomalous, but sub-economic, values of copper were returned from rock chip, outcrop grab and float samples of andesites in the footwall of the mafic-ultramafic complex. Prospecting revealed widespread chalcopyrite in calcite veinlets with pyrite in silicified and slightly hornfelsed Station Creek Formation volcanic rocks. This is supported by results of silt sampling carried out concurrently. Copper mineralization of a similar style and tenor is a common occurrence in footwall rocks beneath magmatic sulphide mineralization in other areas of the Kluane Ranges.

The strongest silt geochemical response from the survey of Miles Ridge creeks is from the Rex Zone area in the headwaters of Creek 1. Silt samples collected immediately below the footwall contact of the sill returned highly anomalous values of 831 and 1195 ppm nickel as well as 1095 and 1430 ppm copper. No mineralization has yet been found to explain these values as well as nearby soil geochemical and geophysical anomalies resulting from 1988 surveys.

A common characteristic of all five identified areas of mineralization or potential mineralization on Miles Ridge are pronounced embayments on the floor of the sill. These are known to be important controls on localization of massive sulphide-enriched gabbros at the Wellgreen Mine although the mechanism for this is not known. It may be that they simply "placer" out immiscible sulphides during emplacement of the complexes. A more likely model is that irregularities in the floor of the sill provide greater contact with sulphur bearing wallrocks causing formation of nickel and copper bearing sulphides. All five areas of mineralization are reflected in the airborne geophysical survey data as resistivity lows. This is probably due to a higher than average sulphide mineral content. Interactions with reactive sedimentary rocks, such as limestones and calcareous shales, are also regionally important mechanisms for controlling sulphide mineral concentration and these rocks form the footwall to the intrusive complex at the Onion, Rex and Cessna Zones.

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Carne, R.C.

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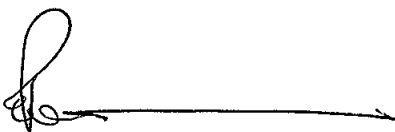
APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with an M.Sc. majoring in Geological Sciences.
2. I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (registration number 19868).
3. From 1974 to present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981 became a partner of Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Robert C. Carne, M.Sc., P.Geo.

APPENDIX II
PROJECT PERSONNEL

APPENDIX II

LIST OF PERSONNEL

<u>Name</u>	<u>Position</u>	<u>Period</u>
Rob Carne	Geologist/Supervisor	July 1-3
Greg Duso	Geologist/party Chief	July 1-15
Iain Weatherston	Field Assistant	July 1-15

All are employees of Archer, Cathro & Associates (1981) Limited with address at:
1016 - 510 West Hastings Street
Vancouver, BC V6B 1L8

APPENDIX III
DESCRIPTIONS OF ROCK SAMPLES

APPENDIX III
DESCRIPTIONS OF ROCK SAMPLES WITH METAL VALUES

Sample Number	Description	Cu ppm	Ni ppm	Pt g/t	Pd g/t
59362	composite grab of 4 m wide zone of qz-py veins in ANDS	120	<5		
59363	composite grab of pale bleached QZCB after ANDS	5	25		
59364	grab of limonitic, siliceous, sheared ANDS; 1-2% py-cp	2390	<5		
59365	float, GABR(?) with semi-stratified sx blebs <3 mm	13000	95	<0.07	<0.07
59366	grab hanging wall QZCB	145	690		
59367	DUNT float, ~1% disseminated sx	30	2240		
59368	DUNT grab, net textured <1% sx over 30 m	<5	2240		
59369	ANDS float with ml stain and 5% py, tr cp	4560	20		
59370	DUNT float, ~1% net textured sx	55	1480		
59371	grab, sheared QZCB, ~1% sx over 2x30 m	40	2060	<0.14	<0.14
59372	grab, small <1m ² MSSX injection in QZCB	745	45	<0.21	<0.21
59373	DUNT grab, ~1% net textured sx	<5	2370		
59374	DUNT grab, ~1% net textured sx	20	2090		
59375	greenish PERD near hanging wall, ~1% sx	15	55		
59376	4 m composite chip of sheared limonitic GABR(?)	1770	2090	0.14	0.63
59377	grab from oxidized PERD at footwall, 3x15 m exposure with ~1% sx	55	2580	<0.14	0.14
59378	grab, ml stained ANDS	525	5		
59379	grab, ml stained ANDS, >1% py, tr cp	765	<5		
59380	DUNT grab, <1% sx	<5	1935		
59381	green stained, pale coloured xenolith in PERD, float	2040	3090		
59382	grey siliceous rock (altered ANDS?), ~2% po	75	85		
59383	DUNT grab, brown, oxidized, ~1% net textured sx	<5	2330		
59384	1.5 m chip, sheared limonitic footwall GABR(?); trace sx	1770	2080	<0.14	0.42
59385	grab siliceous altered footwall rock adjacent to 59384	1065	1010		
59386	grab siliceous altered footwall rock, 2% po	70	200	<0.07	<0.07
59387	limonitic, grey, siliceous ANDS(?) float boulder, 2% po	50	40	<0.07	0.14

APPENDIX III (cont'd)

<u>Sample Number</u>	<u>Description</u>	<u>Cu</u> <u>ppm</u>	<u>Ni</u> <u>ppm</u>	<u>Pt</u> <u>g/t</u>	<u>Pd</u> <u>g/t</u>
59388	sheared, slightly limonitic PERD near footwall, grab	85	65		
59389	hanging wall QZCB, grab	80	105		
59390	fine black sulphide in PERD, grab	40	850		
59391	limonitic float boulder, fs and sx in matrix	95	785		
59392	2 m chip sample, trace secondary green nickel stain, limonitic GABR(?)	<5	2070	<0.14	<0.14

ABBREVIATIONS

cp	chalcopyrite	py	pyrite
fs	feldspar	qz	quartz
ml	malachite	sx	sulphide
po	pyrrhotite	tr	trace
ANDS	andesite		
DUNT	dunite		
GABR	gabbro		
MSSX	massive sulphide		
PERD	undifferentiated peridotite or other ultramafic rock		
QZCB	quartz-carbonate rock (altered country rock)		

APPENDIX IV
ANALYTICAL CERTIFICATES



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 : 1-A
 Total Pages : 2
 Certificate Date: 26-JUL-98
 Invoice No. : 19825239
 P.O. Number :
 Account : MPO

Project : (EXR)ONION PROPERTY
 Comments:

CERTIFICATE OF ANALYSIS A9825239

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
AA4546	201 202	< 0.2	3.56	< 2	100	< 0.5	< 2	2.01	< 0.5	43	279	88	5.95	< 10	< 1	0.04	< 10	5.96	675	4
AA4547	201 202	< 0.2	3.89	< 2	90	< 0.5	< 2	2.10	< 0.5	43	253	94	6.03	< 10	< 1	0.04	< 10	5.67	690	2
AA4548	201 202	< 0.2	3.53	< 2	80	< 0.5	< 2	1.82	< 0.5	46	308	108	5.92	< 10	< 1	0.03	< 10	6.45	715	3
AA4549	201 202	< 0.2	3.72	< 2	30	< 0.5	< 2	1.96	< 0.5	48	304	92	6.06	< 10	< 1	0.03	< 10	6.68	725	4
AA4550	201 202	< 0.2	0.81	24	250	< 0.5	2	0.65	< 0.5	82	1105	143	6.97	< 10	< 1	0.03	< 10	10.80	945	3
AA4596	201 202	< 0.2	0.58	30	20	< 0.5	2	0.48	< 0.5	132	1400	94	8.49	< 10	< 1	0.01	< 10	12.35	1105	1
AA4597	201 202	< 0.2	0.90	36	100	< 0.5	< 2	2.08	< 0.5	31	250	115	4.79	< 10	< 1	0.05	< 10	3.58	655	5
AA4598	201 202	< 0.2	0.63	12	80	< 0.5	2	0.78	< 0.5	89	1440	88	6.52	< 10	< 1	0.01	< 10	13.40	905	1
AA4599	201 202	< 0.2	0.96	10	210	< 0.5	2	1.16	< 0.5	87	1190	127	7.48	< 10	< 1	0.03	< 10	11.25	905	5
AA4600	201 202	< 0.2	1.14	12	140	< 0.5	2	1.08	< 0.5	83	1195	106	7.06	< 10	< 1	0.03	< 10	11.65	880	4
AA4667	201 202	0.2	1.68	12	420	0.5	< 2	2.00	< 0.5	22	123	586	4.11	< 10	< 1	0.11	10	1.88	795	29
AA4668	201 202	< 0.2	1.09	34	180	< 0.5	4	1.16	< 0.5	87	1145	143	6.91	< 10	< 1	0.04	< 10	10.75	950	4
AA4669	201 202	< 0.2	1.72	10	120	< 0.5	< 2	1.59	< 0.5	83	970	115	7.36	< 10	< 1	0.03	< 10	10.15	935	3
AA4670	201 202	< 0.2	0.46	114	10	< 0.5	2	0.55	< 0.5	100	1610	77	7.54	< 10	< 1	< 0.01	< 10	14.10	970	2
AA4671	201 202	< 0.2	0.50	2	90	< 0.5	6	5.11	< 0.5	94	1315	57	5.59	< 10	< 1	< 0.01	< 10	12.90	1140	2
AA4674	201 202	< 0.2	1.56	6	250	< 0.5	< 2	1.57	< 0.5	18	49	215	3.56	< 10	1	0.09	< 10	0.86	940	12
AA4675	201 202	< 0.2	1.52	6	250	< 0.5	< 2	2.13	< 0.5	49	474	646	5.50	< 10	< 1	0.07	< 10	5.34	950	23
AA4676	201 202	< 0.2	1.08	12	130	< 0.5	< 2	1.45	< 0.5	71	1100	289	5.90	< 10	< 1	0.04	< 10	10.40	905	7
AA4677	201 202	< 0.2	0.91	20	70	< 0.5	< 2	1.27	< 0.5	90	1285	179	7.52	< 10	< 1	0.02	< 10	11.15	870	3
AA4678	201 202	< 0.2	0.77	20	40	< 0.5	< 2	1.23	< 0.5	98	1370	126	6.91	< 10	< 1	0.02	< 10	11.75	970	3
AA4679	201 202	< 0.2	1.30	10	30	< 0.5	2	0.93	< 0.5	115	1465	145	7.46	< 10	< 1	0.02	< 10	12.00	1105	1
AA4680	201 202	< 0.2	1.34	12	170	< 0.5	< 2	4.04	< 0.5	37	299	228	4.54	< 10	< 1	0.09	< 10	4.78	885	10
AA4681	201 202	< 0.2	1.34	18	130	< 0.5	< 2	3.94	< 0.5	52	407	206	5.44	< 10	< 1	0.07	< 10	5.89	665	9
AA4682	201 202	< 0.2	1.35	14	150	< 0.5	< 2	4.75	< 0.5	50	478	482	5.12	< 10	< 1	0.06	< 10	6.82	795	21
AA4683	201 202	0.6	1.65	40	200	0.5	< 2	1.65	0.5	39	134	843	6.41	< 10	< 1	0.09	< 10	2.32	920	28
AA4684	201 202	0.2	1.94	8	280	0.5	< 2	2.09	< 0.5	27	69	739	4.79	< 10	< 1	0.12	< 10	1.63	1135	36
AA4685	201 202	< 0.2	1.66	24	50	< 0.5	< 2	2.35	< 0.5	54	457	71	5.33	< 10	< 1	0.04	< 10	6.81	725	3
AA4686	201 202	< 0.2	0.43	< 2	10	< 0.5	4	0.53	< 0.5	107	1590	48	5.98	< 10	< 1	0.01	< 10	14.80	1045	1
AA4687	201 202	< 0.2	0.79	4	80	< 0.5	8	0.61	< 0.5	109	1330	124	8.63	< 10	< 1	0.02	< 10	12.80	955	4
AA4688	201 202	< 0.2	0.98	4	60	< 0.5	2	0.80	< 0.5	113	1220	146	9.03	< 10	< 1	0.03	< 10	11.85	990	5
AA4689	201 202	< 0.2	0.69	2	40	< 0.5	6	0.63	< 0.5	122	1300	98	8.45	< 10	< 1	0.01	< 10	12.50	1005	1
AA4690	201 202	< 0.2	0.81	6	40	< 0.5	2	0.76	< 0.5	119	1215	93	7.75	< 10	< 1	0.02	< 10	11.85	990	1
AA4691	201 202	< 0.2	0.46	< 2	30	< 0.5	6	0.74	< 0.5	120	1080	59	7.71	< 10	< 1	0.02	< 10	13.85	1185	2
AA4692	201 202	< 0.2	0.37	6	10	< 0.5	8	0.46	< 0.5	115	1820	45	4.89	< 10	< 1	< 0.01	< 10	>15.00	920	< 1
AA4693	201 202	< 0.2	0.25	6	< 10	< 0.5	8	0.34	< 0.5	124	1515	39	6.47	< 10	< 1	< 0.01	< 10	>15.00	1125	1
AA4694	201 202	< 0.2	1.50	< 2	110	< 0.5	< 2	1.07	< 0.5	16	79	43	3.15	< 10	< 1	0.06	< 10	1.29	455	1
AA4695	201 202	< 0.2	1.97	12	180	< 0.5	< 2	1.93	< 0.5	45	336	65	5.22	< 10	< 1	0.08	< 10	4.53	785	2
AA4696	201 202	< 0.2	1.74	< 2	200	< 0.5	< 2	1.48	< 0.5	45	342	62	5.43	< 10	< 1	0.07	< 10	4.54	785	3
AA4697	201 202	< 0.2	1.36	12	140	< 0.5	< 2	1.27	< 0.5	61	576	64	5.56	< 10	< 1	0.07	< 10	6.32	775	3
AA4698	201 202	< 0.2	1.43	4	140	< 0.5	< 2	1.35	< 0.5	45	367	79	4.33	< 10	< 1	0.05	< 10	4.38	835	1

CERTIFICATION: *Jan Biddle*



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

Project: (EXR)ONION PROPERTY
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CERTIFICATE OF ANALYSIS

A9825239

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
AA4546	201	202	< 0.01	313	300	4	< 2	13	91	0.21	< 10	< 10	158	< 10	68
AA4547	201	202	< 0.01	266	270	6	2	14	93	0.24	< 10	< 10	173	< 10	68
AA4548	201	202	< 0.01	354	310	2	< 2	12	83	0.19	< 10	< 10	146	< 10	72
AA4549	201	202	< 0.01	360	270	8	< 2	12	71	0.19	< 10	< 10	149	< 10	70
AA4550	201	202	< 0.01	1175	210	< 2	< 2	5	47	0.01	< 10	10	28	< 10	96
AA4596	201	202	< 0.01	1600	120	< 2	< 2	6	34	0.01	< 10	< 10	22	< 10	96
AA4597	201	202	0.01	303	600	10	< 2	6	107	< 0.01	< 10	< 10	34	< 10	102
AA4598	201	202	< 0.01	1400	90	8	< 2	5	47	0.02	< 10	< 10	25	< 10	72
AA4599	201	202	< 0.01	1190	210	6	2	6	95	0.04	< 10	10	36	< 10	78
AA4600	201	202	< 0.01	1165	170	< 2	< 2	7	78	0.06	< 10	10	44	< 10	78
AA4667	201	202	0.03	102	970	8	< 2	7	278	0.02	< 10	< 10	47	< 10	70
AA4668	201	202	0.01	1120	220	< 2	< 2	6	106	0.05	< 10	< 10	42	< 10	90
AA4669	201	202	0.01	961	220	< 2	2	8	61	0.10	< 10	< 10	75	< 10	88
AA4670	201	202	< 0.01	1495	30	10	< 2	5	31	0.01	< 10	10	16	< 10	78
AA4671	201	202	0.01	1255	40	< 2	< 2	4	172	0.01	< 10	< 10	15	< 10	82
AA4674	201	202	0.03	39	750	2	2	6	119	0.03	< 10	< 10	52	< 10	66
AA4675	201	202	0.01	451	600	6	< 2	7	142	0.03	< 10	< 10	49	< 10	86
AA4676	201	202	0.01	1005	250	< 2	2	7	75	0.03	< 10	< 10	40	< 10	86
AA4677	201	202	< 0.01	1180	170	< 2	2	7	53	0.02	< 10	< 10	38	< 10	82
AA4678	201	202	< 0.01	1290	140	2	< 2	7	55	0.01	< 10	< 10	34	< 10	82
AA4679	201	202	< 0.01	1295	120	2	< 2	8	26	0.05	< 10	10	54	< 10	80
AA4680	201	202	0.01	369	630	6	2	6	234	0.02	< 10	< 10	38	< 10	78
AA4681	201	202	0.01	521	340	6	2	6	196	0.03	< 10	< 10	40	< 10	66
AA4682	201	202	0.01	565	440	8	< 2	6	271	0.02	< 10	< 10	36	< 10	70
AA4683	201	202	0.02	150	770	18	2	9	75	< 0.01	< 10	< 10	50	< 10	134
AA4684	201	202	0.02	60	910	6	2	6	187	0.07	< 10	< 10	61	< 10	80
AA4685	201	202	0.01	532	300	< 2	< 2	7	117	0.02	< 10	< 10	41	< 10	78
AA4686	201	202	< 0.01	1535	60	4	< 2	5	18	0.01	< 10	< 10	21	< 10	66
AA4687	201	202	< 0.01	1495	120	2	2	5	25	0.04	< 10	< 10	27	< 10	88
AA4688	201	202	< 0.01	1420	150	< 2	< 2	6	27	0.05	< 10	10	33	< 10	98
AA4689	201	202	< 0.01	1600	120	2	< 2	5	19	0.04	< 10	10	26	< 10	76
AA4690	201	202	0.01	1540	160	< 2	< 2	5	24	0.04	< 10	10	31	< 10	78
AA4691	201	202	< 0.01	1610	140	4	2	5	30	0.01	< 10	10	22	< 10	72
AA4692	201	202	< 0.01	1955	40	< 2	2	5	17	0.01	< 10	< 10	15	< 10	64
AA4693	201	202	< 0.01	1680	40	2	< 2	4	8	0.01	< 10	10	13	< 10	66
AA4694	201	202	0.03	68	500	2	2	5	42	0.11	< 10	< 10	69	< 10	66
AA4695	201	202	0.02	358	330	6	< 2	11	52	0.05	< 10	< 10	80	< 10	104
AA4696	201	202	0.02	397	370	4	< 2	9	47	0.05	< 10	< 10	75	< 10	102
AA4697	201	202	0.02	702	320	2	2	8	42	0.04	< 10	< 10	59	< 10	106
AA4698	201	202	0.02	407	450	< 2	< 2	11	38	0.05	< 10	< 10	74	< 10	76

CERTIFICATION:

Jan Biddle



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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EXPATRIATE RESOURCES LTD.
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CERTIFICATE OF ANALYSIS A9825239

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
AA4699	201	202	0.2	1.98	16	200	< 0.5	< 2	1.59	< 0.5	25	78	76	4.45	< 10	< 1	0.09	< 10	1.58	815	4
AA4700	201	202	0.2	1.52	32	210	0.5	< 2	1.41	< 0.5	22	50	58	4.49	< 10	< 1	0.12	< 10	1.05	780	4
AA4701	201	202	< 0.2	1.74	< 2	190	< 0.5	2	1.11	< 0.5	90	1345	73	6.57	< 10	< 1	0.01	< 10	11.30	910	3
AA4702	201	202	< 0.2	2.04	6	120	< 0.5	< 2	1.18	< 0.5	51	460	53	5.00	< 10	< 1	0.04	< 10	6.05	610	3
AA4703	201	202	< 0.2	2.11	16	170	< 0.5	< 2	1.28	< 0.5	66	587	95	5.31	< 10	< 1	0.04	< 10	6.73	865	3
AA4704	201	202	< 0.2	2.09	10	150	< 0.5	< 2	1.54	< 0.5	64	601	85	5.25	< 10	< 1	0.04	< 10	7.25	770	3
AA4705	201	202	< 0.2	0.25	< 2	< 10	< 0.5	8	1.47	< 0.5	117	1305	60	5.82	< 10	< 1	< 0.01	< 10	>15.00	975	1
AA4706	201	202	< 0.2	1.49	12	100	< 0.5	< 2	1.56	< 0.5	31	278	53	3.75	< 10	< 1	0.05	< 10	3.51	490	3
AA4707	201	202	< 0.2	2.05	< 2	150	< 0.5	< 2	1.78	< 0.5	39	298	65	4.43	< 10	< 1	0.06	< 10	3.75	680	3
AA4708	201	202	< 0.2	2.66	< 2	250	< 0.5	2	1.52	< 0.5	72	609	71	6.43	< 10	< 1	0.03	< 10	7.88	730	2
AA4709	201	202	< 0.2	1.43	8	110	< 0.5	< 2	1.15	< 0.5	15	63	33	3.25	< 10	< 1	0.06	< 10	1.13	570	2
AA4710	201	202	< 0.2	1.16	34	110	< 0.5	< 2	1.28	< 0.5	55	589	103	4.88	< 10	< 1	0.04	< 10	5.96	890	4
AA4711	201	202	0.2	1.32	16	400	0.5	< 2	3.59	< 0.5	16	25	255	3.74	< 10	< 1	0.11	10	0.98	975	13
AA4712	201	202	< 0.2	1.52	10	350	0.5	< 2	2.41	< 0.5	18	42	273	3.60	< 10	< 1	0.10	< 10	1.02	885	11
AA4713	201	202	0.2	0.97	24	160	0.5	< 2	2.95	< 0.5	15	21	148	2.96	< 10	< 1	0.11	< 10	0.76	695	12
AA4714	201	202	< 0.2	2.43	< 2	50	< 0.5	< 2	2.94	< 0.5	63	355	155	7.51	< 10	< 1	0.06	< 10	7.23	855	2
AA4715	201	202	< 0.2	1.14	58	100	< 0.5	< 2	1.03	< 0.5	85	808	96	7.23	< 10	< 1	0.07	< 10	8.63	1000	2
AA4716	201	202	< 0.2	2.09	< 2	70	< 0.5	< 2	2.75	< 0.5	62	357	161	7.60	< 10	< 1	0.06	< 10	6.87	825	3
AA4717	201	202	< 0.2	3.57	< 2	70	< 0.5	< 2	4.09	< 0.5	32	95	132	6.85	10	< 1	0.06	< 10	2.60	830	5
AA4718	201	202	< 0.2	2.88	6	70	< 0.5	< 2	1.87	< 0.5	46	293	123	6.41	< 10	< 1	0.05	< 10	4.65	785	2
AA4719	201	202	< 0.2	2.33	< 2	90	< 0.5	< 2	3.64	< 0.5	33	107	147	7.24	< 10	< 1	0.12	< 10	2.48	870	4
AA4720	201	202	< 0.2	3.01	< 2	90	< 0.5	< 2	4.70	< 0.5	31	88	137	6.79	10	< 1	0.08	< 10	2.39	810	3
AA4721	201	202	< 0.2	2.81	< 2	100	< 0.5	< 2	4.17	< 0.5	39	164	146	7.13	10	< 1	0.07	< 10	3.67	820	2
AA4722	201	202	< 0.2	2.41	< 2	100	< 0.5	< 2	3.65	< 0.5	41	177	146	6.80	< 10	< 1	0.07	< 10	3.71	770	5
AA4723	201	202	< 0.2	1.38	12	230	< 0.5	< 2	1.71	< 0.5	20	38	170	4.33	< 10	< 1	0.09	< 10	1.12	770	9
AA4724	201	202	< 0.2	2.28	< 2	100	< 0.5	< 2	3.83	< 0.5	34	142	126	6.06	< 10	< 1	0.07	< 10	3.36	780	4
R15195	201	202	< 0.2	1.18	44	160	< 0.5	< 2	2.22	< 0.5	34	284	161	5.26	< 10	< 1	0.09	< 10	3.61	755	6
R15196	201	202	< 0.2	1.34	24	110	< 0.5	< 2	2.13	< 0.5	64	685	169	6.35	< 10	< 1	0.06	< 10	8.66	885	5
R15197	201	202	< 0.2	1.26	102	110	< 0.5	< 2	1.26	< 0.5	63	660	489	7.15	< 10	< 1	0.07	< 10	7.89	855	4
R15198	201	202	< 0.2	0.69	18	40	< 0.5	6	1.12	< 0.5	88	1215	86	7.10	< 10	< 1	0.02	< 10	13.50	1000	< 1
R15199	201	202	< 0.2	0.92	48	110	< 0.5	2	1.73	< 0.5	74	831	127	5.84	< 10	< 1	0.05	< 10	10.25	865	2
R15200	201	202	< 0.2	0.67	8	60	< 0.5	4	1.08	< 0.5	96	1195	80	6.88	< 10	< 1	0.02	< 10	13.40	1090	1

CERTIFICATION:

Paul Biddle



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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To: EXPATRIATE RESOURCES LTD.
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
 P.O. BOX 4127
 WHITEHORSE, YT
 Y1A 3S9

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CERTIFICATE OF ANALYSIS A9825239

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
AA4699	201	202	0.03	82	510	6	2	11	54	0.06	< 10	< 10	87	< 10	132
AA4700	201	202	0.02	79	560	14	< 2	9	55	0.02	< 10	< 10	66	< 10	210
AA4701	201	202	0.01	1120	90	2	2	5	41	0.05	< 10	< 10	45	< 10	76
AA4702	201	202	0.03	523	300	< 2	2	5	36	0.07	< 10	< 10	48	< 10	76
AA4703	201	202	0.02	650	390	< 2	< 2	6	41	0.06	< 10	< 10	51	< 10	80
AA4704	201	202	0.02	683	310	< 2	< 2	5	45	0.05	< 10	< 10	47	< 10	80
AA4705	201	202	< 0.01	1785	< 10	2	< 2	4	80	0.01	< 10	10	13	< 10	60
AA4706	201	202	0.04	294	570	2	2	4	45	0.11	< 10	< 10	63	< 10	64
AA4707	201	202	0.04	318	430	2	< 2	8	50	0.09	< 10	< 10	74	< 10	70
AA4708	201	202	0.01	740	140	< 2	< 2	5	36	0.06	< 10	< 10	46	< 10	70
AA4709	201	202	0.04	62	550	6	< 2	5	40	0.10	< 10	< 10	68	< 10	62
AA4710	201	202	0.01	661	410	10	< 2	5	48	0.03	< 10	< 10	33	< 10	120
AA4711	201	202	0.01	19	1130	6	< 2	9	417	< 0.01	< 10	10	46	< 10	94
AA4712	201	202	0.01	33	980	2	< 2	9	268	< 0.01	< 10	< 10	47	< 10	76
AA4713	201	202	0.01	22	1230	< 2	4	8	288	< 0.01	< 10	< 10	28	< 10	46
AA4714	201	202	< 0.01	569	290	4	< 2	12	54	0.18	< 10	< 10	127	< 10	82
AA4715	201	202	0.01	999	380	12	< 2	8	26	0.03	< 10	< 10	39	< 10	118
AA4716	201	202	0.01	576	330	2	< 2	12	57	0.17	< 10	< 10	116	< 10	88
AA4717	201	202	< 0.01	74	450	< 2	< 2	17	61	0.38	< 10	10	196	< 10	88
AA4718	201	202	0.01	284	320	< 2	2	12	37	0.20	< 10	< 10	118	< 10	92
AA4719	201	202	< 0.01	68	520	6	2	18	68	0.19	< 10	< 10	177	< 10	90
AA4720	201	202	< 0.01	58	480	2	< 2	18	63	0.34	< 10	< 10	184	< 10	90
AA4721	201	202	< 0.01	204	440	2	< 2	16	72	0.30	< 10	< 10	176	< 10	88
AA4722	201	202	< 0.01	240	480	< 2	< 2	14	83	0.25	< 10	< 10	157	< 10	86
AA4723	201	202	0.01	32	940	2	< 2	10	137	0.01	< 10	< 10	68	< 10	60
AA4724	201	202	< 0.01	177	480	< 2	< 2	14	77	0.23	< 10	< 10	138	< 10	78
R15195	201	202	0.01	328	680	10	2	7	168	< 0.01	< 10	< 10	43	< 10	116
R15196	201	202	< 0.01	807	320	< 2	< 2	8	94	0.04	< 10	< 10	56	< 10	78
R15197	201	202	0.01	805	470	< 2	< 2	8	98	0.03	< 10	< 10	44	< 10	84
R15198	201	202	< 0.01	1365	80	< 2	2	6	27	0.01	< 10	< 10	23	< 10	82
R15199	201	202	0.01	1095	400	2	< 2	8	50	0.01	< 10	< 10	35	< 10	110
R15200	201	202	< 0.01	1430	80	2	< 2	5	27	0.01	< 10	10	22	< 10	98

CERTIFICATION: *Paul Biddle*



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SAMPLE	PREP CODE	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %
59365	208 226	< 0.03	< 0.07	< 0.07	< 0.03	1	4.68	< 10	< 20	< 5	< 10	1.66	< 5	50	210	13000	5.75	10	0.03	7.00
59371	208 226	< 0.06	< 0.14	< 0.14	< 0.06	< 1	0.60	< 10	< 20	< 5	< 10	0.33	< 5	110	840	40	7.15	10	0.02	21.5
59372	208 226	< 0.09	< 0.21	< 0.21	< 0.09	1	3.22	70	4140	< 5	< 10	3.51	< 5	40	30	745	10.70	< 10	0.04	1.33
59376	208 226	< 0.06	0.14	0.63	< 0.06	1	2.39	< 10	100	< 5	10	1.34	< 5	95	730	1770	9.68	< 10	0.11	13.90
59377	208 226	< 0.06	< 0.14	0.14	< 0.06	< 1	0.55	< 10	20	< 5	< 10	0.36	< 5	130	880	55	7.45	< 10	0.01	21.3
59384	208 226	< 0.06	< 0.14	0.42	< 0.06	1	2.55	< 10	20	< 5	20	0.27	< 5	100	930	1770	9.11	< 10	0.08	13.85
59386	208 226	< 0.03	< 0.07	< 0.07	< 0.03	1	0.58	< 10	80	< 5	< 10	1.06	< 5	20	30	70	3.50	< 10	0.08	0.24
59387	208 226	0.03	< 0.07	0.14	< 0.03	< 1	1.54	< 10	60	< 5	10	2.30	< 5	15	50	50	3.63	< 10	0.10	0.16
59392	208 226	< 0.06	< 0.14	< 0.14	< 0.06	< 1	0.75	30	20	< 5	< 10	1.19	< 5	100	1410	< 5	6.87	10	0.06	20.9

CERTIFICATION: Hart Bickler +



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SAMPLE	PREP		Mn	Mo	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	ppm	ppm
59365	208	226	770	< 5	0.05	95	700	40	< 10	5	30	0.21	< 20	< 20	260	< 20	165
59371	208	226	1270	< 5	0.03	2060	500	55	< 10	5	30	0.04	< 20	< 20	< 20	< 20	95
59372	208	226	600	< 5	0.03	45	1300	15	< 10	< 5	165	0.08	< 20	< 20	40	< 20	70
59376	208	226	890	< 5	0.04	2090	400	35	< 10	5	5	0.12	< 20	< 20	60	< 20	50
59377	208	226	990	< 5	0.03	2580	300	35	10	5	20	0.03	< 20	< 20	< 20	< 20	40
59384	208	226	790	< 5	0.03	2080	300	< 5	< 10	5	5	0.10	< 20	< 20	60	< 20	60
59386	208	226	50	< 5	0.11	200	600	30	< 10	5	10	0.30	< 20	< 20	60	< 20	80
59387	208	226	70	< 5	0.08	40	600	10	< 10	5	10	0.30	< 20	< 20	80	< 20	90
59392	208	226	1040	< 5	0.03	2070	100	15	< 10	5	20	0.06	< 20	< 20	20	20	40

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

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

Page: 1 of 1-A
 Total Pages: 1
 Certificate Date: 26-JUL-98
 Invoice No.: 19825235
 P.O. Number:
 Account: MPO

Project: (EXR)ONION PROPERTY
 Comments:

CERTIFICATE OF ANALYSIS A9825235

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm	Na %
59362	208 226	< 5	1	1.53	< 10	140	< 5	< 10	0.30	< 5	10	60	120	3.48	< 10	0.26	1.13	560	< 5	0.10
59363	208 226	< 5	< 1	0.48	70	160	< 5	< 10	6.48	< 5	5	20	5	2.03	< 10	0.14	1.94	570	< 5	0.08
59364	208 226	-----	14	0.10	< 10	5040	< 5	< 10	0.14	< 5	5	130	2390	2.91	10	0.04	0.07	20	< 5	0.04
59366	208 226	< 5	< 1	0.24	< 10	20	< 5	10	3.95	< 5	55	150	145	6.27	10	0.01	9.16	890	< 5	0.04
59367	208 226	-----	< 1	0.47	< 10	20	< 5	< 10	0.19	< 5	125	250	30	7.01	10	0.01	21.8	1050	5	0.03
59368	208 226	-----	1	0.25	< 10	< 20	< 5	10	0.22	< 5	125	1350	< 5	7.90	< 10	0.01	22.5	1200	< 5	0.03
59369	208 226	-----	1	1.92	< 10	920	< 5	< 10	0.66	< 5	10	70	4560	2.77	10	0.17	1.52	540	< 5	0.12
59370	208 226	-----	< 1	1.09	< 10	360	< 5	10	1.82	< 5	95	1190	55	7.48	< 10	0.12	17.75	1090	< 5	0.03
59373	208 226	-----	< 1	0.15	< 10	< 20	< 5	< 10	0.08	< 5	125	2070	< 5	6.57	10	< 0.01	23.4	1010	< 5	0.02
59374	208 226	-----	< 1	0.16	< 10	< 20	< 5	< 10	0.17	< 5	130	1150	20	7.98	10	< 0.01	22.2	1180	< 5	0.03
59375	208 226	-----	< 1	4.51	< 10	< 20	< 5	< 10	4.72	< 5	30	80	15	6.94	< 10	0.03	3.92	1280	< 5	0.05
59378	208 226	-----	< 1	1.65	< 10	2240	< 5	< 10	0.70	< 5	15	50	525	4.24	< 10	0.16	1.53	470	20	0.08
59379	208 226	-----	< 1	1.06	< 10	100	< 5	10	3.24	< 5	< 5	80	765	0.93	< 10	0.21	0.32	430	145	0.04
59380	208 226	-----	< 1	0.12	< 10	60	< 5	10	0.48	< 5	105	2140	< 5	7.39	< 10	0.01	21.3	1330	< 5	0.03
59381	208 226	-----	10	0.15	< 10	< 20	< 5	< 10	1.80	< 5	125	2140	2040	2.78	< 10	< 0.01	3.73	120	< 5	0.03
59382	208 226	-----	< 1	0.80	40	60	< 5	< 10	0.67	< 5	25	80	75	4.89	< 10	0.08	0.83	240	< 5	0.11
59383	208 226	-----	< 1	0.06	< 10	< 20	< 5	< 10	0.06	< 5	130	1010	< 5	7.78	< 10	< 0.01	22.5	1090	< 5	0.03
59385	208 226	-----	< 1	2.25	30	60	< 5	< 10	6.08	< 5	40	30	1065	0.57	< 10	0.03	0.24	100	< 5	0.05
59388	208 226	-----	< 1	3.10	< 10	< 20	< 5	< 10	1.84	< 5	30	20	85	4.82	< 10	0.02	2.47	520	< 5	0.08
59389	208 226	-----	< 1	1.34	60	20	< 5	< 10	4.12	< 5	35	240	80	5.02	< 10	0.05	3.25	860	< 5	0.08
59390	208 226	-----	< 1	2.78	< 10	< 20	< 5	< 10	1.50	< 5	90	400	40	6.44	< 10	0.11	8.51	580	< 5	0.15
59391	208 226	-----	< 1	2.56	< 10	20	< 5	< 10	1.11	< 5	100	220	95	7.74	< 10	0.07	9.77	830	< 5	0.09

CERTIFICATION:

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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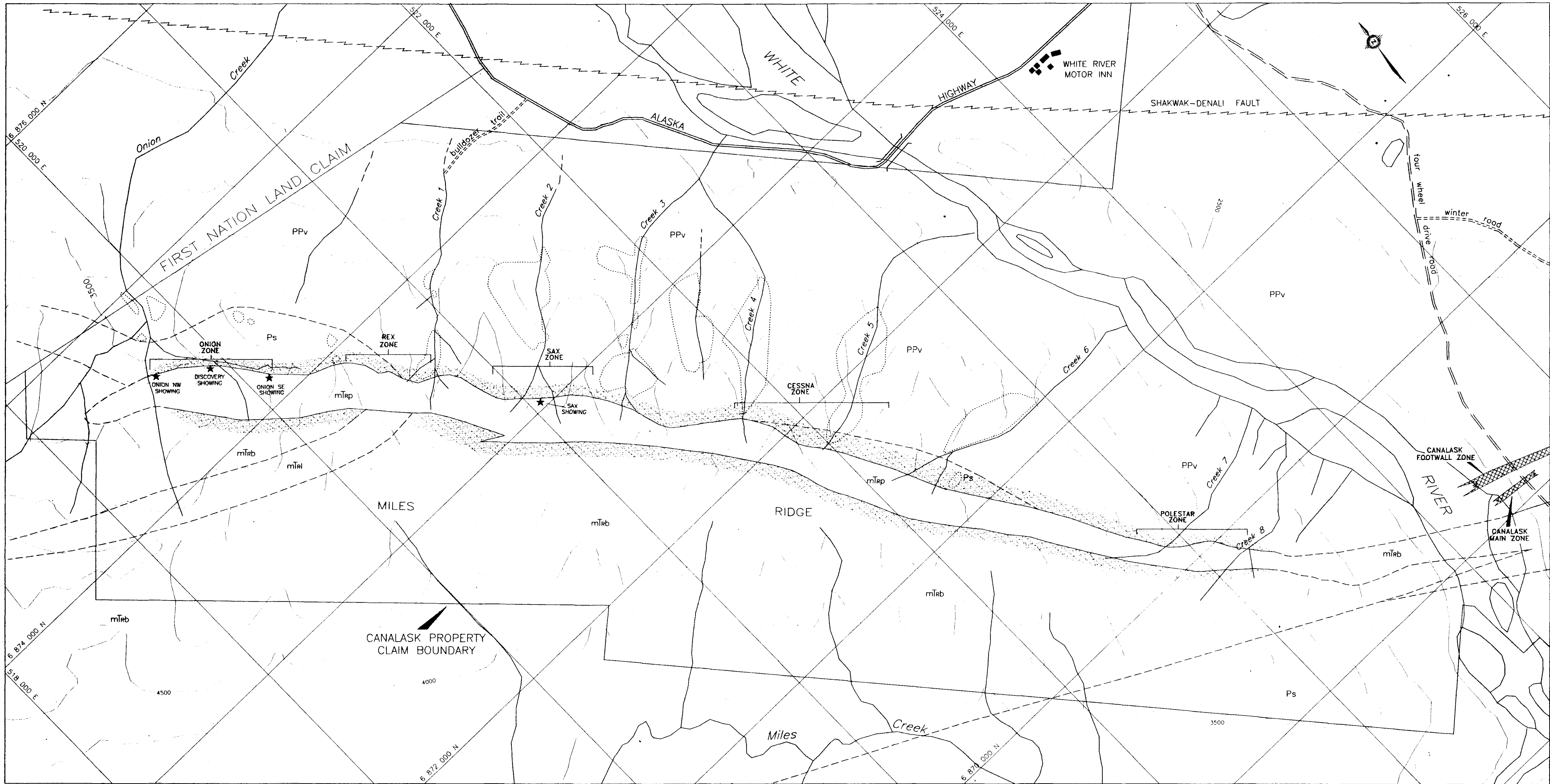
CERTIFICATE OF ANALYSIS

A9825235

SAMPLE	PREP CODE	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
59362	208 226	< 5	1000	10	< 10	< 5	30	0.03	< 20	< 20	40	< 20	45
59363	208 226	25	700	< 5	< 10	5	80	< 0.01	< 20	< 20	20	< 20	20
59364	208 226	< 5	100	25	< 10	< 5	130	< 0.01	< 20	< 20	< 20	< 20	5
59366	208 226	690	< 100	15	< 10	15	65	< 0.01	< 20	< 20	40	< 20	40
59367	208 226	2240	100	5	< 10	5	30	0.02	< 20	< 20	< 20	< 20	30
59368	208 226	2240	< 100	20	< 10	5	< 5	0.01	< 20	< 20	< 20	20	20
59369	208 226	20	700	30	< 10	< 5	65	0.04	< 20	< 20	20	< 20	30
59370	208 226	1480	< 100	< 5	< 10	5	130	0.08	< 20	< 20	20	< 20	95
59373	208 226	2370	< 100	< 5	< 10	5	< 5	0.01	< 20	< 20	< 20	< 20	30
59374	208 226	2090	< 100	5	< 10	5	< 5	0.01	< 20	< 20	< 20	< 20	25
59375	208 226	55	600	15	< 10	30	35	0.30	< 20	< 20	240	< 20	60
59378	208 226	5	1000	20	< 10	< 5	100	0.06	< 20	< 20	20	< 20	85
59379	208 226	< 5	900	5	< 10	< 5	135	0.08	< 20	< 20	< 20	< 20	< 5
59380	208 226	1935	< 100	< 5	< 10	< 5	35	< 0.01	< 20	< 20	< 20	< 20	30
59381	208 226	3090	< 100	< 5	< 10	< 5	< 5	0.01	< 20	< 20	< 20	< 20	1745
59382	208 226	85	400	25	< 10	10	15	0.23	< 20	< 20	120	< 20	70
59383	208 226	2330	< 100	5	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	20
59385	208 226	1010	1200	< 5	< 10	< 5	75	0.11	< 20	< 20	< 20	< 20	45
59388	208 226	65	1200	10	< 10	< 5	10	0.15	< 20	< 20	80	< 20	25
59389	208 226	105	1100	< 5	< 10	25	45	0.01	20	< 20	200	< 20	80
59390	208 226	850	400	65	< 10	5	55	0.03	< 20	< 20	20	< 20	60
59391	208 226	785	400	< 5	250	5	25	0.04	< 20	< 20	20	< 20	55

CERTIFICATION:

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LITHOLOGIES

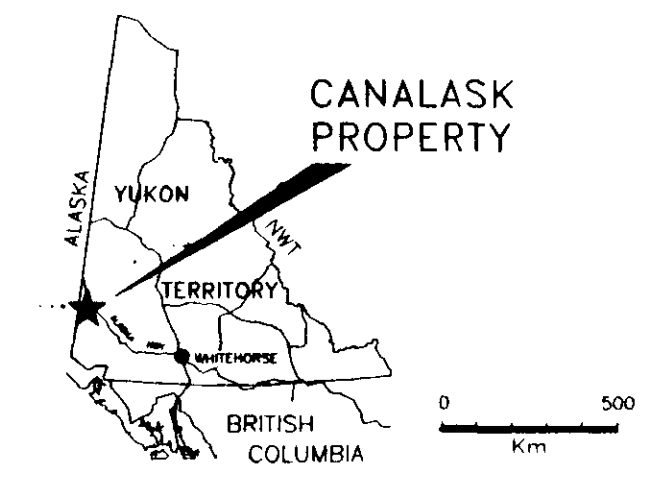
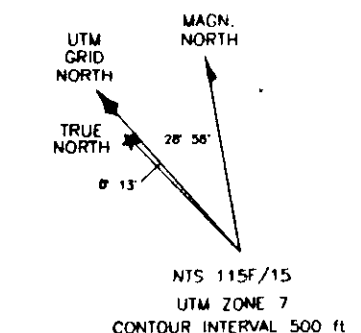
- MIDDLE TRIASSIC**
- mīrb amygdaloidal basalt
 - mīrl massive limestone
- WHITE RIVER MAFIC-ULTRAMAFIC COMPLEX**
- mīrp peridotite, dunite, pyroxenite, gabbro
- PENNSYLVANIAN TO LOWER PERMIAN**
- SKOLAI GROUP**
- Ps Hasen Creek Fm. - limestone, greywacke, phyllite
 - PPv Station Creek Fm. - massive andesite flows, tuff

LEGEND

quartz-carbonate alteration

SYMBOLS

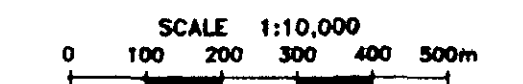
- geological contact (defined, assumed)
- major strike-slip fault
- ★ Ni-Cu-PGE magmatic mineralization
- ✱ Ni-Cu-Co exocontact mineralization



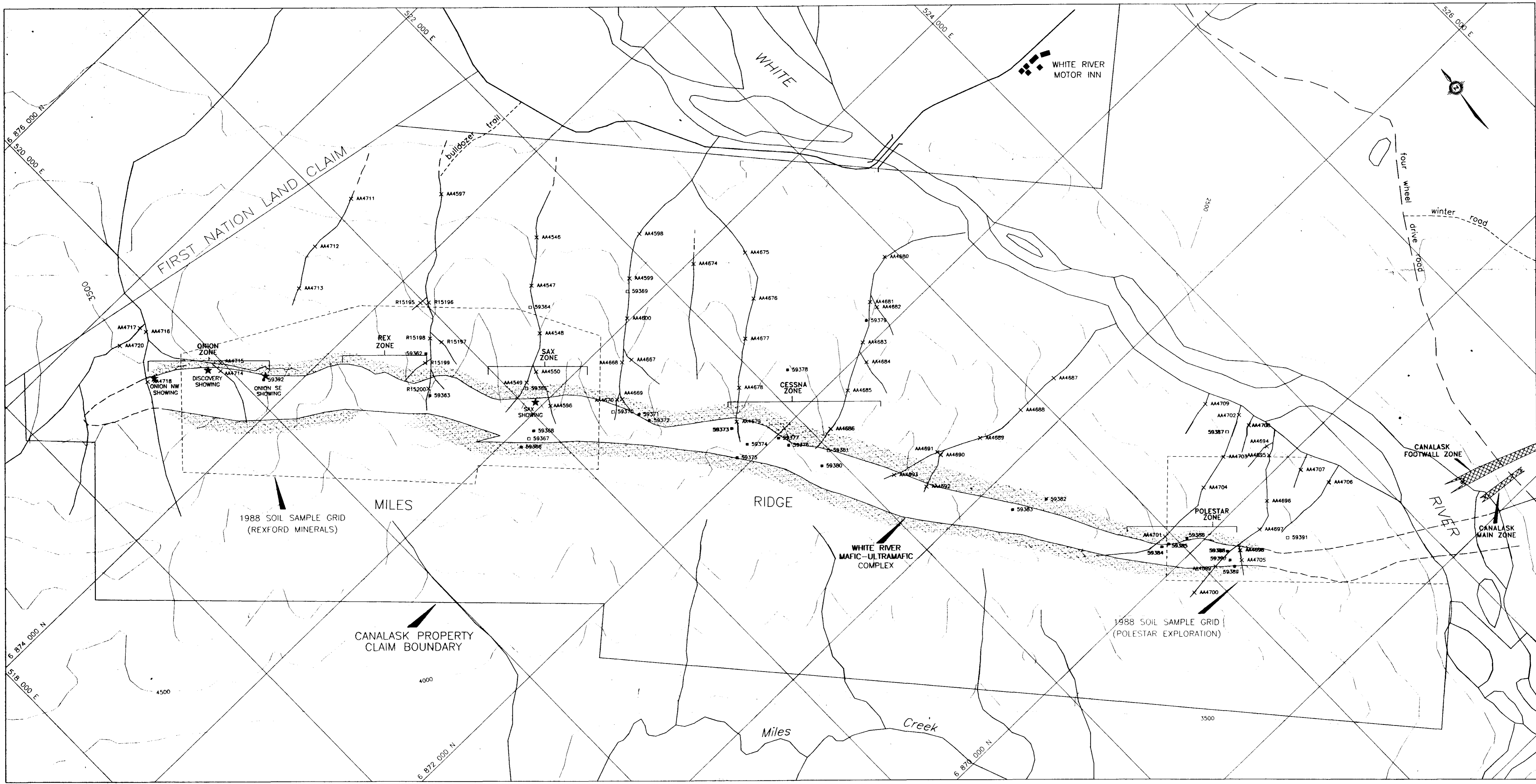
EXPATRIATE RESOURCES LTD.

FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY
CANALASK PROPERTY
MILES RIDGE

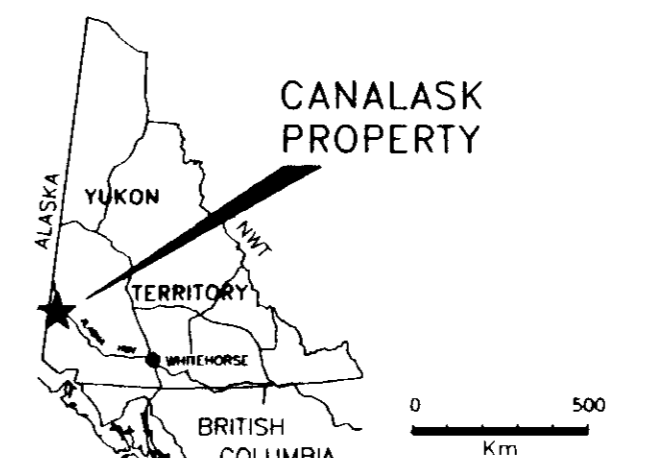
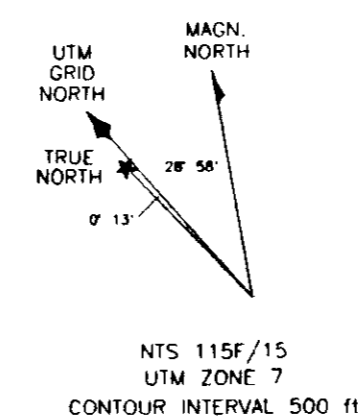


DRAWN/REVISED BY: AG PROJECT: CANALASK
FILE: CA10-GEO.DWG DATE: FEBRUARY, 1999



SYMBOLS

- | | | | |
|--|---------------------------------------|--|---------------------------------------|
| | geological contact (defined, assumed) | | 1998 silt sample and number |
| | Ni-Cu±PGE magmatic mineralization | | 1998 rock sample (float) and number |
| | Ni-Cu-Co exocontact mineralization | | 1998 rock sample (outcrop) and number |
| | quartz-carbonate alteration | | |

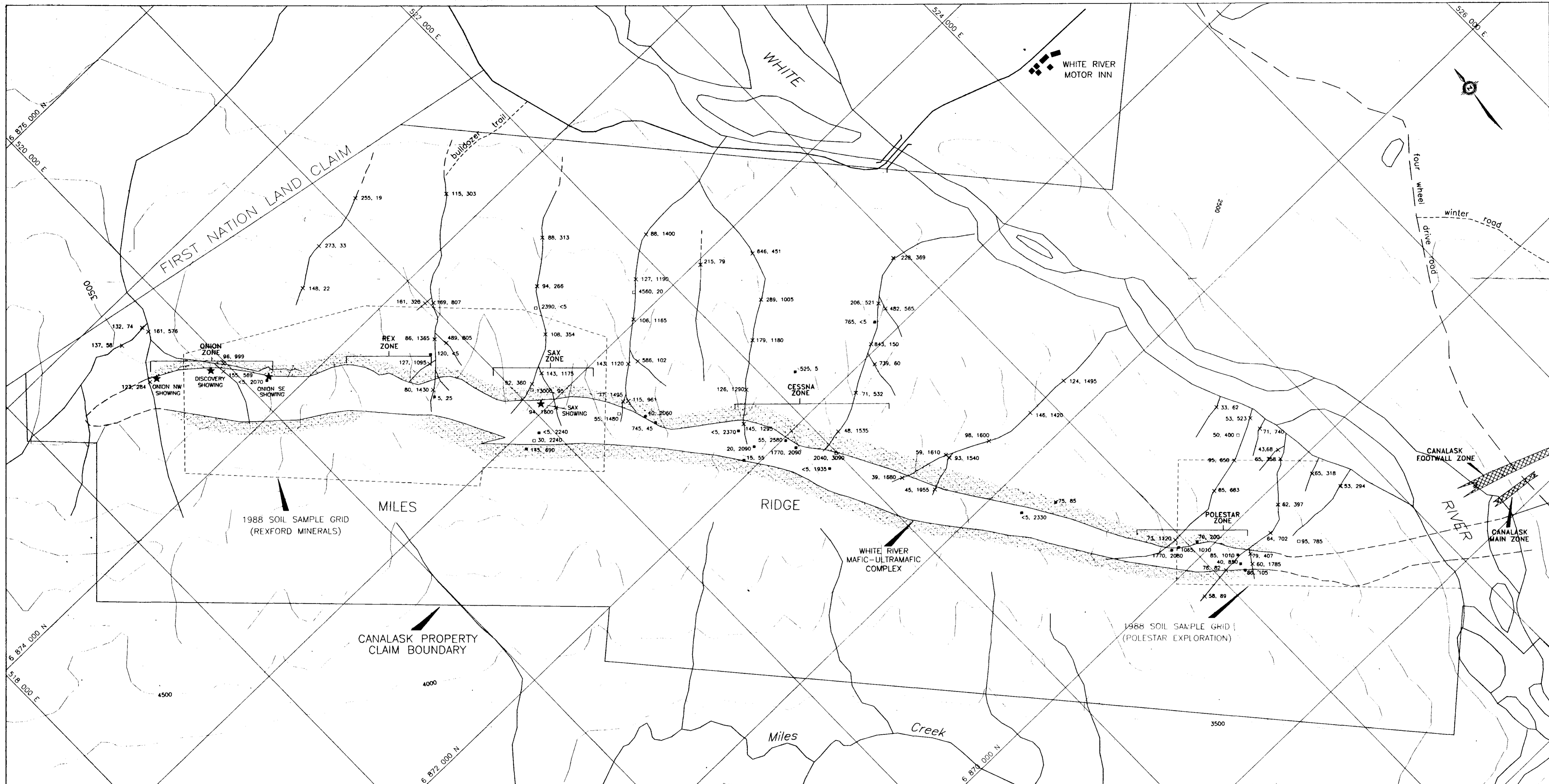


EXPATRIATE RESOURCES LTD.

FIGURE 5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SAMPLE LOCATION
 CANALASK PROPERTY
 MILES RIDGE

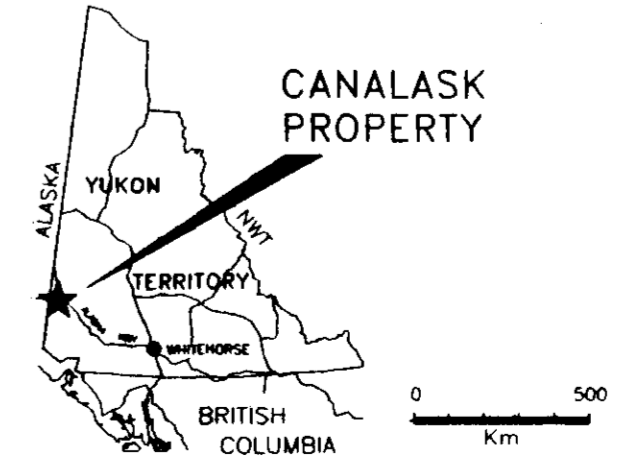
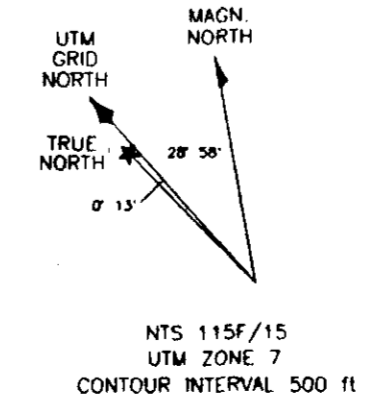
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DRAWN/REVISED BY: AG PROJECT: CANALASK
 FILE: EXPAT/CLASK/ACAD98/CA10-SL.DWG DATE: FEBRUARY, 1999



SYMBOLS

- | | | | |
|--|---------------------------------------|--|--|
| | geological contact (defined, assumed) | | 1998 silt sample with copper and nickel in ppm |
| | Ni-Cu±PGE magmatic mineralization | | 1998 rock sample (float) with copper and nickel in ppm |
| | Ni-Cu-Co exocontact mineralization | | 1998 rock sample (outcrop) with copper and nickel in ppm |
| | quartz-carbonate alteration | | |



EXPATRIATE RESOURCES LTD.

FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER, NICKEL GEOCHEMISTRY
CANALASK PROPERTY
MILES RIDGE

093957 DWG 3

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

DRAWN/REVISED BY: AC	PROJECT: CANALASK
FILE: EXPAT\CLASK\ACAD98\CA10-CH.DWG	DATE: FEBRUARY, 1999