MAP NO.: 105D 3,4	**ASSESSMENT REPORT** X **PROSPECTUS** **CONFIDENTIAL** X **OPEN FILE**	**DOCUMENT NO:** 092595 **MINING DISTRICT:** Whitehorse **TYPE OF WORK:** Trenching, Geochemistry	

REPORT FILED UNDER: Aurum Geological Consultants Inc.

DATE PERFORMED: 26-30 August, 1988 **DATE FILED:** 12 December 1988

LOCATION: **LAT.:** 60 11'N **AREA:** Wheaton River

LONG.: 135 30'W **VALUE $:** 3200.00

CLAIM NAME & NO.: EARL 1-32 (YA77893-924)

WORK DONE BY: L. Walton, T. Garagan

WORK DONE FOR: Pacific Trans-Ocean Resources Ltd.

DATE TO GOOD STANDING:

REMARKS: #229 EARL The TWIST zone consists of two quartz-pyrite-galena veins containing minor amounts of arsenopyrite, sphalerite and tetrahedrite. The veins are 50m apart and can be traced for 450m. Blast trenching on the TWIST zone in 1988 exposed a 2m wide area of quartz vein material containing 1.14 g/t Au and 32.6 g/t Ag.

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

M.R. file no.	
R.M.M.R. file no.	
Date forwarded	12 Dec 1988

TRANSMITTAL FORM

From ▶ Mining Recorder at: Whitehorse

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☑ QUARTZ ASSESSMENT REPORT — Claims: EARL 1-32, YA77893-YA77924 — Claim sheet no.

Type of report: Geochemical / Trenching — Submitted by: Aurum Geological

Cls. work performed on: EARL 15 YA77907 — $ req. for ren. application: $200.00

OFFICE OF THE REGIONAL MANAGER MINERAL RIGHTS DEC 12 1988 WHITEHORSE YUKON TERRITORY

TRAVER

Note: Report is filed for INFORMATION only. Note that 4,593.84 is bank that is changed to Trenching and that amount of work is being put toward renewal of claim.

Signature

REPLY ACTION

Date returned

Earl ⇔ Claims recorded in 1983

Signature

802-6027-26 (6-86)

GEOCHEMICAL AND TRENCHING REPORT
on the
EARL 1 to 32 CLAIMS
YA77893 - 77924
Whitehorse Mining District

Location: 1. Wheaton River Area, Yukon
2. NTS 105D 3,4
3. Latitude: 60 11'N
Longitude: 135 30'W

For
PACIFIC TRANS-OCEAN RESOURCES LTD.
1500 10250-101 Street
Edmonton, Alberta
T5J 3P4

by
LORI WALTON; M.Sc and TOM GARAGAN; B.Sc, FGAC.
AURUM GEOLOGICAL CONSULTANTS INC.
604-675 West Hastings Street,
Vancouver,B.C.,V6B 4W3

NOVEMBER 3, 1988

092595

SUMMARY

The EARL claims consist of 32 claims, located in the Wheaton River District, approximately 65 kilometers southwest of Whitehorse. The Mt. Skukum gold-silver mine is located 4 kilometers north of the property and Omni's Skukum Creek silver-gold deposit is located 8 kilometers southeast of the property. Access to the claims is via helicopter. A little used 4 by 4 tote road from Omni's Skukum Creek property passes within 500 meters of the property.

Exploration during the 1988 field season consisted of minor prospecting, blast trenching, geochemical sampling and claim surveying. Fieldwork was carried out between August 26 and August 30, 1988.

The EARL claims are underlain by Hadrynian to Early Paleozoic phyllites and clastic metasediments which are intruded by a Cretaceous quartz diorite and several Tertiary rhyolite dykes. The rhyolite dykes are parallel to a Mt. Skukum boundary fault separating Tertiary conglomerates and volcanics from the metasediments. Mineralization located on the property in the Twist zone is subparallel to this fault.

The Twist zone consists of at least two poorly exposed quartz-pyrite-galena (arsenopyrite-sphalerite-tetrahedrite) veins located 50 meters apart. The veins cut the metasediments and can be traced in subcrop and float for at least 400 meters. Soil geochemical values from Trenches 88-1 and 88-2 are up to 380 ppb gold and 10.4 ppm silver. A 2 meter wide area of quartz vein float exposed in Trench 88-2 contained 1140 ppb gold and 0.95 opt silver. Quartz vein grab samples from the trench contain up to 1040 ppb gold and 1.01 opt silver. Quartz vein float samples collected in 1988 from the south boundary of the Twist zone grid contain up to 1520 ppb gold and 14.12 opt silver. Float samples collected in this area in 1987 contained up to 0.185 opt gold and 103 opt silver.

The Charleston quartz-galena-gold vein consists of a 700 meter long vein (0.2 to 2 meters wide) which outcrops within 25 meters south of the EARL claims on adjoining ground. The vein trends under talus towards the claims and probably exists under talus within the EARL claims.

The potential for locating economic Omni style mineralization in the Twist zone or along an extension of the Charleston vein is good and more exploration is warranted. A 2 phase succes contingent program consisting of trenching followed by drilling is recommended for 1989. The cost of the trenching part of the program would be $ 131,000.

TABLE OF CONTENTS

List of Appendices

INTRODUCTION

This report was prepared at the request of Mr. E. Stewart of Pacific Trans-Ocean Resources Ltd. and describes the exploration carried out on the EARL claims during the 1988 field season. Exploration consisted of prospecting, trenching and claim surveying and was done between August 26 and August 30, 1988. Most of the following sections (up to Exploration) are modified from Garagan (1987).

LOCATION and ACCESS

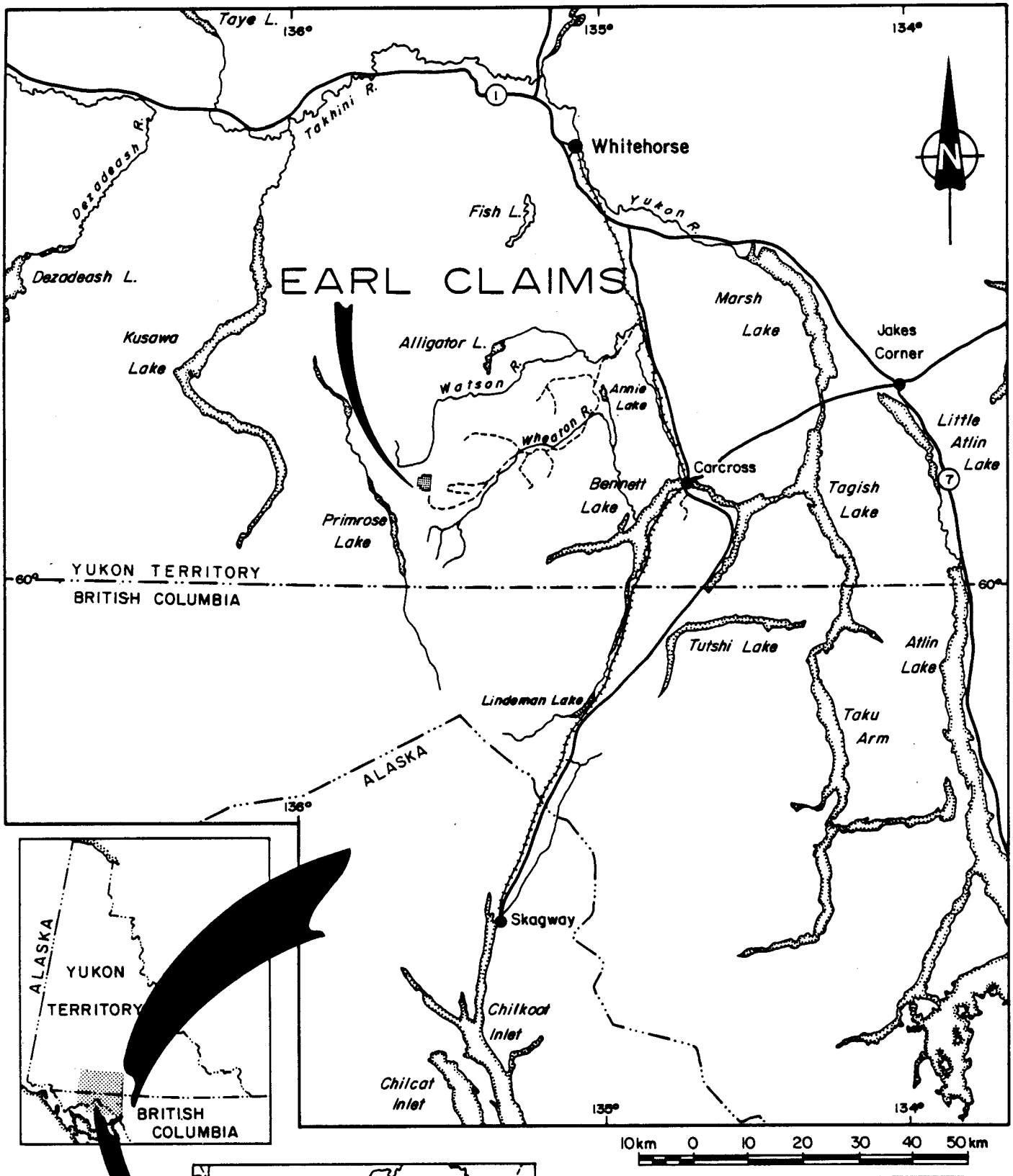
The EARL claims are located at the headwaters of the Watson River and Skukum Creek in the Wheaton River district, Yukon Territory. The property is located approximately 65 kilometers southwest of Whitehorse. It is 4 kilometers south of the Mt. Skukum gold-silver mine and 8 kilometers northwest of Omni's Skukum Creek silver-gold deposit. The property is at 60 11'N latitude and 135 30'W longitude (Figure 1).

Access to the property is via helicopter from Whitehorse or a seasonal base at the Mt. Skukum millsite, located 10 kilometers east of the property. A little used 4 by 4 tote road links Omni/Skukum Venture's Skukum Creek camp up Berney Creek to Total Energold's Charleston property (adjacent to the EARL claims). The road passes within 500 meters of the EARL claims. Access to the 4 by 4 tote road is via a 5 kilometer long road which leaves the Annie Lake road near the Mt. Skukum mill. This 5 kilometer road is presently being upgraded to prepare for production on the Skukum Creek deposit. The Annie Lake road is a 40 kilometer long all weather road which leads from the Klondike highway through the Wheaton River district to the Mt. Skukum millsite.

CLIMATE, TOPOGRAPHY and VEGETATION

The climate in the Wheaton River area is variable, with cool summers and long, cold winters. Precipitation is light (40 cm annually), with moderate snow falls during the winter months. The area is susceptible to periodic high winds from moist Pacific systems rising over the Coast Mountains. The exploration season extends from mid-May through to September/October.

The topography of the property is rugged; a mixture of steep cliffs with large talus slopes and some rounded ridges. The Twist zone occurs on a steep grass covered south facing slope leading from a rounded ridge (cliff forms north slope). Elevations on the property vary between 1370 meters and 2200 meters. Creek water flows between June and September and a small glacial fed lake occurs in the south central part of the claims (see Figure 3).

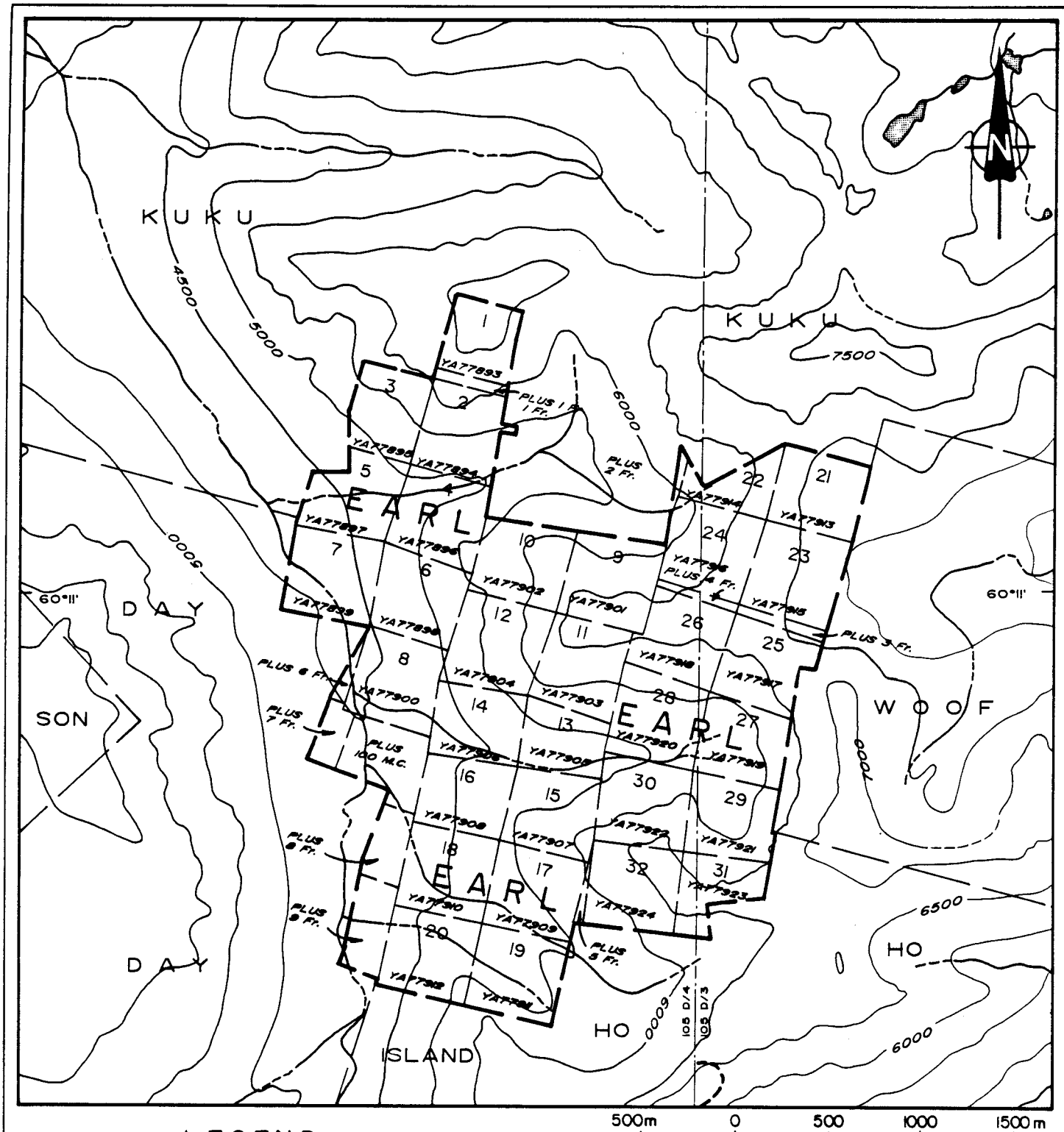


PACIFIC TRANS - OCEAN RESOURCES LTD.

EARL CLAIMS
WHITEHORSE MINING DISTRICT

LOCATION

Aurum Geological Consultants Inc.			NOVEMBER, 1988
	Drawn by NH	Scale 1:1,000,000	FIGURE : 1



500m 0 500 1000 1500 m

SCALE IN METRES

LEGEND

- 19 — claim boundary
- claim number
- YA77911 — tag number
- 4WD trail
- creek, lake
- 5500 — elevation contour; interval 500 ft.

Note: adapted from D.I.A.N.D. map sheets 105 D-3 & 105 D-4

PACIFIC TRANS - OCEAN RESOURCES LTD.

EARL CLAIMS
WHITEHORSE MINING DISTRICT

CLAIM MAP

Aurum Geological Consultants Inc.			NOVEMBER, 1988
NTS 105 D/3&4	DRAWN BY NH	SCALE 1:30,000	FIGURE: 2

The property is above treeline and the vegetation consists of alpine grasses and shrubs.

CLAIM STATUS

The EARL claims consist of 33 surveyed contiguous mineral claims and 9 fractional claims located within 105D 3 and 4 of the Whitehorse Mining district, Yukon. The claims are owned by AGIP Resources Ltd. of Toronto, Ontario and are held under option by Pacific Trans-Ocean Resources Ltd. of Edmonton, Alberta.

The following is a summary of the claim status:

Claim Name	Grant Number	Expiry Date
EARL 1-32	YA77893-77924	28 January, 1990
PLUS 100		25 August, 1989
PLUS 1-9 fr		25 August, 1989

The claim distribution is shown on Figure 2.

HISTORY

The EARL claims are located immediately north of the Charleston Crown Grant, which contains the historically explored Charleston vein. The Charleston vein was discovered in 1907 following the staking and prospecting rush brought on by the discovery of free gold and tellurides on Gold Hill. The property was acquired by Mathew Watson from J. Hume in 1912. Trenching and prospecting was carried out until 1921 when the Slate Creek Mining Company under J.M. Elmer optioned the property (Cockfield, 1922). A 61 meter (200 ft) adit was driven into the vein in 1921. The vein pinched to 6 inches (15 cm) near the back of the adit and no work was done to determine whether the vein actually died out or swelled again. A second 30 meter (100 ft) adit located approximately 40 meters (130 ft) north of the original adit, is presumed to have been driven in the vein shortly after 1921 (equipment is still there), although the exact date has not been reported. The property was returned to the Watson family in 1922. Twenty-five samples taken over "2000 feet" of the vein by W.M. Ross in 1934 were reported to average 0.344 ounces per ton gold and 8.36 ounces per ton silver over an average width of 2.1 feet (Wheeler,1961). The CHARLESTON Mineral Claim was surveyed in August, 1955 and approved for lease on August 7, 1957. The BUD claims were staked by Yukon Antimony Corp. immediately south of the Crown Grant in 1964 and were subsequently allowed to lapse.

Very little work was carried out in the area until the 1980's when the Nat joint venture staked a gold, arsenic and lead stream sediment anomaly immediately north of the Crown Grant (present EARL claims). The source of the anomaly was not located and the claims were allowed to lapse (Onasick and Archer, 1981). Exploration in the area dramatically increased in 1982-1986 with the discovery of the Mt. Skukum gold deposit by AGIP Canada in 1981-1983 (164,000 tons at 0.73 opt gold and 0.63 opt silver: Total Erickson 1985 Annual Report). Mining operations were suspended in 1988, pending discovery of additional ore reserves. Omni Resources' and Skukum Venture's Skukum Creek deposit (821,000 tons @ 0.225 opt gold and 8.96 opt silver; 1988-89 Canadian Mines Handbook) discovered in 1985 is scheduled to commence production at the end of 1988.

The EARL claims were staked adjacent to the Charleston Crown Grant (currently under option to Total Energold) in July, 1983 by AGIP Canada and optioned to Kerr Addison Mines Ltd. in 1984. Exploration carried out by AGIP Canada and Kerr Addison from 1983 to 1986 consisted of geological mapping, soil and rock sampling, grid establishment and hand trenching (Pautler, 1986). Although a 1000 to 1500 foot drill program was recommended for 1987, Kerr Addison dropped their option in the spring of 1987. Pacific Trans-Ocean Resources Ltd. subsequently optioned the claims, and in 1987 carried out a geological mapping, grid establishment, soil and rock sampling, VLF-EM and magnetometer surveys and trenching program. In 1988, Pacific Trans- Ocean Resources Ltd. carried out the program described within this report.

REGIONAL GEOLOGY

The EARL claims are situated near the eastern margin of the Coast Plutonic Complex. The regional geology has been described by Cairnes, 1912, Wheeler, 1961 and Lambert, 1974 and will only be summarized here.

The Jurassic to Cretaceous Coast Plutonic Complex consists of foliated and non-foliated granitoid rocks which intrude and underlie low grade metamorphosed sediments and volcanics of the Mesozoic Whitehorse-Nechako Trough and quartzites, schists and gniesses of the Early Paleozoic Yukon Group.

Subaerial rhyolite andesite flows and pyroclastics of the Tertiary Skukum Group occur in two isolated areas in the region. The two isolated areas, Mt. Skukum and Bennett Lake, have been interpreted to represent paleovolcanic centers (Lambert, 1974; Doherty, pers comm, 1982 and Pride, 1985). The EARL claims occur near the southwest corner of the Mt. Skukum complex. Late stage rhyolite and andesite dykes and plugs

related to the Skukum volcanics cut the Skukum Group and surrounding rocks. The regional structural trend is northwest which is cut by later Tertiary structures. The EARL claims occur near the junction of the Tertiary Berney Creek fault (east-west) and an unnamed north-south fault. Both appear to be marginal faults to the Mt. Skukum caldera (Pride, 1985). The Charleston vein and the Twist zone veins are parallel to this north-south fault.

The Mt. Skukum gold-silver deposit occurs in fault hosted sulphide free calcite-quartz veins within the Mt. Skukum paleovolcanic complex. Omni's Skukum Creek silver-gold deposit consists of a quartz-galena-pyrite-arsenopyrite vein occurring in a splay of the Berney Creek fault system. The vein is hosted by granodiorite of the Coast Plutonic complex.

GEOLOGY of the EARL CLAIMS

The EARL claims are underlain by Yukon Group phyllites, quartzites and schists which are intruded by granodiorite and quartz diorite of the Coast Plutonic complex. Tertiary boulder conglomerates overlain by Mt. Skukum volcanics unconformably overlay and are in fault contact with the Yukon Group on the northeast corner of the property. Rhyolite and andesite dykes cut all units. The dykes appear to follow pre-existing north-south structures and are cut by later east-west faults.

The Yukon Group outcrops throughout most of the property. It consists of grey to rusty weathering phyllite, quartzite, quartz-feldspar-biotite (garnet) schist, marble, skarn and minor amphibolite. The phyllite, schists and quartzites are the predominant units within the Yukon Group. The phyllites are locally graphitic and grade into the schists. The quartzites weather resistantly and form a "ribbed" weathering pattern when interbedded with the phyllites. The skarns consist of two types; diopside-garnet and garnet-actinolite-magnetite. They outcrop on the northeast and south central part of the claims and form localized pods and beds.

The foliation trends between 140 and 195 (average 150) and dips between 40 and 80 east (average 60) with local shallow westerly dips occurring on limbs of minor folds. The foliation is parallel to bedding. Several pods and seams of bull quartz, parallel to the foliation, occur throughout the unit.

The Yukon Group is intruded by and is in fault contact with quartz diorite and granodiorite of the Cretaceous Coast Plutonic complex along the southern edge of the claim group. The quartz diorite is the most common unit with granodiorite occurring in the southwestern parts of the property. The quartz diorite con-

sists of a medium to coarse grained equigranular granitoid rock with interstitial mafics (hornblende-biotite) and approximately 5% quartz. The intrusive is weakly to moderately chlorite-epidote altered in the areas of dyking and veining and is moderately to strongly sericitized adjacent to veins.

Tertiary polymictic conglomerates overlain by intermediate Mt. Skukum Group pyroclastic rocks are in fault contact (also locally unconformably overlie) with the Yukon Group on the eastern and northeastern side of the claims. The conglomerate is clast supported in a matrix of dark green to brown sand and carbonaceous sand. Subrounded clasts (up to 20 cm in diameter) consist of 60 to 70% metasediments, 25 to 35% granodiorite and minor to 5% bull quartz vein material (from quartz sweats in the metasediments).

The Tertiary pyroclastic rocks consist of light to medium brown, well bedded dacite and andesite ash tuffs and lapilli tuffs. Some epiclastic sediments are interbedded with the volcanics. The tuffs trend 150 to 160 and dip between 25 and 50 E (average 25 to 30). The steeper dips occur adjacent to faults.

Several light brown and platey weathering rhyolite dykes cut all units on the property. The dykes trend northwesterly and dip between 50 and 85 eastward. Dyke widths are between 1 and 5 meters. The rhyolite dykes are fine grained with 5 to 15% fine to medium grained feldspar phenocrysts and 0 to 10% fine to medium grained quartz eyes. They contain 5 to 10% fine grained disseminated pyrite which weathers to give the orange-brown colour.

A few narrow andesite dykes trend obliquely to the rhyolite dyke trend. They occur mainly on the east side of the claims. The andesite dykes have been observed to cut all units on the property except the rhyolite dykes.

A major northwest trending fault separates the Yukon Group from the Tertiary volcanics on the east side of the property. This fault probably formed at the same time as the Berney Creek fault during the collapse of the Mt. Skukum caldera.

A 120 trending airphoto linear associated with a strong VLF anomaly cuts across the Twist zone in the central part of the claims (Figure 4). The linear extends from at least 54+75W/30+00N to 53+00W/29+75N. Fault gouge in Trench 87-2 (across airphoto linear) is parallel to the airphoto linear indicating the presence of an east-west trending fault. The offset in this fault is not known, due to poor exposure, but contoured geochemical patterns suggests some left lateral movement (Figure 6, Garagan, 1987).

MINERALIZATION and ALTERATION

Introduction

Three major zones of interest have been located on the EARL claims: the Twist, Rumba and Skarn zones. The Rumba and Skarn zones have limited economic potential (Rumba is too narrow, Skarn has no mineralization), were previously described by Pautler (1986) and will not be described here. The Charleston vein outcrops 25 meters south of the property boundary and trends under a talus slope towards the EARL claims. It is likely that the vein continues onto the property; therefore a description of the Charleston vein is given here. Fieldwork done in 1988 was carried out on the Twist zone (described below).

Twist Zone

The Twist zone consists of at least 2 poorly exposed (veins 1 & 3 of Kerr Addison) quartz-galena-pyrite-arsenopyrite (tetrahedrite-sphalerite) veins located approximately 50 meters apart. The veins trend northwesterly and can be traced in subcrop (1986 trenches) and in float for at least 450 meters (55+50W/31+25N to 52+00W/29+00N). Prospecting in 1988 traced mineralized vein material 50 meters south beyond the grid. The veins appear to cut the foliation at an acute angle (locally parellel) and dip northeast. The widths of the veins are not known, but the boulders of vein material along the Twist zone are up to 1.2 meters and 0.5 meters wide (Pautler, 1986). The veins likely pinch and swell.

The vein material consists of rusty weathering bull quartz and drusy quartz with trace to 5% sulphides occurring along vague bands. The sulphides consist of predominantly galena, pyrite, sphalerite and arsenopyrite with trace of possibly tetrahedrite. The veins also contain abundant limonite bearing microfractures. A narrow sericitized rhyolite dyke appears to be related to the east vein (Kerr Addison's vein #3) and Pautler (1986) reported a pyritic andesite dyke in the footwall of the western vein (vein #1).

A quartz-pyrite (+ trace galena-arsenopyrite) vein was found in the metasediments 400 meters northeast of the Twist zone and may represent a northerly extension of the vein zone (or a parallel vein set). The vein pinches from 1 meter wide to 10 centimeters within a 10 meter exposure. It occurs within a zone of clay and graphitic gouge and trends 140/50NE.

Charleston Vein

The Charleston vein (on adjoining ground) has been traced for approximately 300 meters in outcrop along a cliff face (and in 2 adits - circa 1920's) and in boulders and subcrop for an additional 400 meters south beyond a 50 meter fault offset. The vein pinches and swells between 0.2 meters and 2.0 meters wide, trends 135 to 160 and dips between 35 and 45 east. The vein occurs in a shear zone within the quartz diorite and often contains thick seams of chlorite and quartz. The quartz diorite is weakly to moderately chlorite altered within 10 to 25 meters of the vein and is often weakly to strongly sericitized adjacent to the vein. The vein is left laterally offset several times by east-west faults and is often bent into the fault zones.

The Charleston vein consists of a rusty weathering occasionally vuggy bull quartz vein (minor calcite) with 1 to 15% sulphides. The sulphides consist of predominantly galena and pyrite with minor sphalerite and chalcopyrite (with malachite). Barite and free gold has been found in soils panned from weathered veins. The vein often contains vague bands of vuggy quartz, bull quartz and sulphides (probably also barite).

Several rhyolite dykes trend parallel to the Charleston vein and extend into the metasediments onto the EARL claims. The vein trends northwest under a steep talus slope within 25 meters of the EARL claims. The vein probably extends with the rhyolite dykes onto the EARL claims into the metasediments. The Twist zone may represent the northern extension of this vein.

Other veins

The metasediments contain several barren white bull quartz veins parallel to foliation. These veins (include Kerr Addison's vein #2) pinch and swell dramatically and probably formed at the time of pre-Tertiary deformation and are unrelated to the Twist zone veins. These veins have little economic potential.

EXPLORATION

Introduction

Exploration on the EARL claims consisted of minor prospecting, blast trenching, sampling and claim surveying. All exploration was done on the Twist zone. A total of 33 rock samples and 22 soil samples were collected and sent to Barringer-Magenta of Calgary, Alberta and Bondar-Clegg of Whitehorse, Yukon (only 2 rocks samples). All the samples were analysed for gold,

silver, copper, lead, zinc, arsenic and antimony. Two rock samples sent to Bondar-Clegg were also analysed for mercury. The results, analytical methods and rock sample descriptions are given in Appendix A. Sample locations and results are plotted in Figures 4, 5 and 6. Nine fractional claims and one mineral claim were staked following a detailed claim survey. The revised claim boundary is shown in Figure 3.

Trenching: Twist Zone

Two trenches were drilled and blasted between August 26 and 30, 1988. The trenches are situated on and slightly below an east-west trending ridge, 1.3 kilometers northwest of the Charleston vein. The trenches were blasted in Yukon Group phyllites containing pods and seams of bull quartz parallel to the foliation. Mineralized quartz vein float and subcrop was also found within the trenches. Both trenches trend NE-SW. A total of 45.3 cubic meters of rock and dirt were removed from the trenches. Permafrost was encountered in the west part of Trench 88-1. Bedrock was exposed in 50% of Trench 88-1. No bedrock was exposed in Trench 88-2. The soil removed was mainly medium brown, grey or rusty B horizon soil, containing up to 50% phyllite and quartz vein rock fragments. Trench diagrams and sample locations are given in Figures 5 and 6. The trench locations are shown in Figure 4.

Trench 88-1

Ten soil samples and nine rock samples were collected from or near Trench 88-1. The trench has an average depth of 1.5 meters. Chip samples and/or soil samples were collected from the trench bottom at 2 meter intervals. Sample collection was hindered by the presence of permafrost. Nine of ten soil samples returned gold values greater than 100 ppb gold. Three soil samples from the east part of the trench returned values of 240 ppb gold, 270 ppb gold, 360 ppb gold and above background values of silver, copper, lead, zinc and arsenic.

Rock chip samples collected from the trench consisted of brownish weathering slightly limonitic phyllite with minor metamorphic bull quartz veins. The best value consists of 87 ppb gold from limonitic phyllite. The remaining rock samples contained background gold values.

A quartz vein float sample (8224085) collected slightly downslope from Trench 88-1 contained 3400 ppb gold, 30.08 opt silver, 840 ppm copper and 6900 ppm lead. The sample was taken from a .35 by 1 by .08 meter sample of quartz vein breccia (phyllite clasts) with minor galena, pyrite and malachite.

Trench 88-2

Twelve soil samples and five rock samples were collected from or near Trench 88-2. The trench has an average depth of 1.5 meters. Soil samples were collected at 2 meter intervals along the trench bottom.

A 2 meter wide zone of quartz vein fragments containing minor galena, tetrahedrite and malachite was exposed. The largest quartz vein fragment measures 15 by 15 by 15 cm. The quartz vein fragments are sheared, contain limonite and exhibit some ribbon banding. A grab sample of this quartz vein material contained 1040 ppb gold and 1.01 opt silver. A composite grab sample across 2 meters of quartz vein fragments contained 1140 ppb gold and 0.95 opt silver. A soil sample from the west end of the trench contianed 380 ppb gold and 1.4 ppm silver.

Reconnaissance Rock Geochemistry

Twenty one rock samples were collected in the Twist Zone grid area. The sample locations and gold-silver results are shown on Figure 4.

Several rock samples collected in the vicinity of Trench 88-2 contain over 100 ppb gold. Sample 8226132 collected 5 meters north of Trench 88-2 contained 822 ppb gold and 3.1 ppm silver. Four rock samples were collected in the vicinity of Trenches 87-1 and 87-2. The highest values were 183 ppb gold and 0.31 ppm silver (8226128).

Thirteen rock samples were collected at the south boundary of the Twist zone grid. A rock float sample collected in this area in 1987 (Garagan, 1987) contained 0.185 opt gold and 103 opt silver. The quartz vein samples collected in 1988 are generally white sheared quartz with some ribbon banding and minor sulphides; galena, pyrite, tetrahedrite and arsenopyrite. The samples were collected for an additional 50 meters south of the sample collected in 1987. Sample #8222084 contained 1520 ppb gold and 14.12 opt silver and sample #822083 contained 900 ppb gold and 5.69 opt silver.

DISCUSSION

The EARL property is located immediately southwest of the Mt. Skukum caldera complex. The claims are underlain by Yukon group phyllites, quartzites and schists which are intruded by granodiorite and quartz diorite of the Cretaceous Coast Plutonic complex. Mt. Skukum Group conglomerate and volcanics are in fault contact with the granodiorite and metasediments on the east side of the property. This fault represents a boundary fault to the Skukum complex and formed during caldera collapse. Several rhyolite dykes trending parallel to the fault cut the granodiorite and phyllites. The boundary fault and related faults probably acted as conduits for mineralizing fluids and rhyolite dykes.

The Twist zone consists of two, probably three veins which can be traced in boulders and outcrop for at least 450 meters. The width of the veins is not known, but boulders are up to 0.3 meters in diameter and subcrop in 1986 trenches indicates widths of at least 0.5 to 1.2 meters. Quartz vein float collected from Trench 88-2 indicates a width of approximately 2 meters; however the veins likely pinch and swell due to the phyllitic nature of the host rock.

A 600 meter long by 30 to 90 meters wide coincident gold-silver soil anomaly is associated with the Twist zone. Rock values from 1987 in this zone are up to 0.185 opt gold and 103 opt silver indicating a high silver to gold ratio. Follow-up prospecting in 1988 extended the quartz vein boulder train 50 meters beyond the grid to the south. It is likely that further prospecting will extend the trend even further to the south, towards the Charleston vein. Several quartz vein samples collected in this area contain minor galena, tetrahedrite, pyrite, arsenopyrite and azurite and returned gold and silver values of over 400 ppb gold and greater than 20 ppm silver.

Chip samples collected from Trench 88-1 contain low or background precious metal values. The highest value was 87 ppb gold from chip sample #8224086 collected from the east end of the trench. Soil samples from the east end of the trench returned values up to 360 ppb gold and 7.2 ppm silver. The presence of anomalous gold values in the eastern part of the trench and low rock sample values suggest that the precious metal source may be slightly north and uphill from the east end of Trench 88-1. A quartz vein sample collected slightly downslope of Trench 88-1 contained of 0.09 opt gold and 30.08 opt silver.

A 2 meter wide zone of quartz vein float containing minor galena, malachite and tetrahedrite was exposed in Trench 88-2.

Soil samples collected across 10 meters in this part of the trench contained over 100 ppb gold and over 2.7 ppm silver: up to 340 ppb gold and 7.0 ppm silver. A grab sample of the quartz vein float material contained 1040 ppb gold and 1.01 opt silver, 500 ppm copper and 5480 ppm lead. A composite grab sample across the 2 meter vein interval contained 1140 ppb gold, 0.95 opt silver, 50 ppm copper and 1700 ppm lead. The values are not as high as values from other quartz vein float samples collected on the property (up to 0.185 opt gold and 103 opt silver), but this probably reflects grade variations in the phyllite hosted vein. Bedrock was not exposed in this trench, therefore the true vein width is unknown. Nearby quartz vein float samples from surface contain up to 3650 ppb gold.

The quartz vein boulder train and geochemical anomalies transected by Trenches 88-1 and 88-2 trend between 150 and 155 and are parallel to several rhyolite dykes. The dykes dip eastward and the veins probably dip in the same direction.

The Charleston vein is a major 0.2 to 2 meter wide and 700 meter long gold bearing quartz vein which trends northwesterly towards the EARL claims. The vein outcrops 25 meters south of the claim boundary and likely continues under talus onto the EARL property.

The Twist zone and Charleston veins are similar to the Omni vein deposit in sulphide content and vein type (bull quartz with high pyrite and galena content and high Ag/Au). The veins also occur in a similar structural environment. The Omni deposit and the EARL veins both occur along a major boundary fault to the Mt. Skukum caldera and are parallel to several rhyolite dykes. The difference between the Twist zone veins and the Omni vein is that the Omni vein is hosted by granodiorite and the EARL veins are hosted by phyllites. The result of this is that the Twist zone may pinch and swell more.

The potential for locating an Omni style vein deposit on the EARL claims is good and a follow up program consisting of trenching followed by diamond drilling is warranted.

RECOMMENDATIONS

Thr results of the 1987 and 1988 exploration program warrant a followup program during the 1989 season. The following 2 phase program is recommended. The extent of the second phase progran is contingent on the results of the first phase.

Phase I

1. Extensive blast trenching.

2. Followup sampling and mapping southeast along the strike of the Twist zone veins towards the Charleston.

3. Mag and VLF towards the southeast to try and locate the Twist and Charleston vein zones under talus.

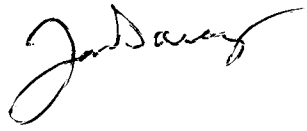
This program should commence in early June, 1989 to allow time for a phase II program. The following is a recommended budget for phase I.

Budget Phase I

Geology	$ 25,000
Geochemistry	15,000
Geophysics	5,000
Trenching	30,000
Helicopter 20 hrs @ $600/hr	12,000
Camp Costs	15,000
Field Supplies	2,000
Truck	2,000
Fuel	1,000
Rentals	2,000
Freight & postage	2,000
Travel	2,000
Report Writing	5,000
Assessment Fees	1,000
Subtotal	$ 119,000
plus 10% contingency	12,000
TOTAL BUDGET	**$ 131,000**

Phase II

The extent of drilling in a phase II program is contingent on the results of the phase I program. A program in the order of 800 meters would cost approximately $ 300,000.



REFERENCES

Cairnes, D.D.,1912: Wheaton District, Yukon Territory, G.S.C. Memoir 31.

Cockfield, W.E.,1922: Exploration in Southern Yukon; in Yukon Territory, Selected field Reports of the G.S.C.:1898 to 1933, Bostock Ed.,G.S.C. Memoir 284.

Garagan, T.,1987: Trenching and Exploration Report on the EARL 1 to 32 claims: internal company and Whitehorse Mining District Assessment report.

Lambert, M.B.,1974: The Bennett Lake Cauldron Subsidence Complex, British Columbia and Yukon Territory, G.S.C. Bulletin 227.

Onasick, E.P. and Archer, A.R.,1981: Geochemical and Geological Report, Nat joint venture, Nomen Dubium 1-24 claims NTS 105D/3-4, Whitehorse Mining District Assessment Report.

Pautler, J.,1986: Geological and Geochemical Report on the EARL claims, Kerr Addison Mines Ltd. internal company report, Whitehorse Mining District Assessment Report.

Pride, M.G.,1985: Preliminary Geological Map of the Mt.Skukum Volcanic Complex, 105D/2,3,4,5. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, open file,1:25,000 scale map.

Wheeler, J.O.,1961: Whitehorse Map Area, Yukon Territory, 105D. G.S.C. Memoir 312.

LEGEND

LITHOLOGIES

TERTIARY (SKUKUM GROUP)

- 6 — rhyolite, dacite and andesite dykes
- 5 — andesite, dacite tuffs, flows
- 4 — conglomerate - polymictic clast supported

JURASSIC - CRETACEOUS

- 3 — diorite dykes
- 2 — granodiorite

Lower PROTEROZOIC - Early PALEOZOIC (YUKON GROUP)

- 1 — phyllite, quartzite, marble, biotite schist, skarn, amphibolite

SYMBOLS

- geological contact (defined, assumed)
- fault
- 40 — foliation
- 70 — bedding, attitude of dykes and veins
- trace of quartz veins
- quartz vein float
- adit
- BL — baseline
- access road
- Kuku / Earl — claim boundary (approximate)
- 6000 — elevation contour : interval 100 ft.
- lake, creek
- cabin
- rock glacier
- ×620015/5, 0.1 — rock float sample / Au in ppb, Ag in ppm
- ×610061/2, 0.02 — rock outcrop sample / Au in ppb, Ag in ppm

Note : Pb, As and Sb results reported in Appendices
* rock sample location and results from Garagan (1987)

100m 0 100 200 300 400 500 600 700m

SCALE IN METRES

PACIFIC TRANS - OCEAN RESOURCES LTD.

EARL CLAIMS
WHITEHORSE MINING DISTRICT

GEOLOGY & Au-Ag ROCK GEOCHEMISTRY

092595 588

Aurum Geological Consultants Inc.			NOVEMBER, 1988
NTS 105 D/3&4	DRAWN BY TAG/NH	SCALE 1:10,000	FIGURE : 3

LEGEND

LITHOLOGIES

TERTIARY

2 rhyolite, andesite dykes

Lower PROTEROZOIC to Early PALEOZOIC

1 YUKON GROUP: phyllite, quartzite, biotite-feldspar schist, marble

SYMBOLS

- geological contact (defined, assumed)
- 50 foliation, parallel to bedding in most cases
- 50 bedding, attitude of dykes
- anticline
- outcrop, subcrop
- gossanous soil
- quartz float
- quartz vein in outcrop
- gn galena showing
- trench (1986)
- TRENCH 87-1 trench (1987)
- grid
- ridge ; dashes indicate cliff side
- ×YE6.100/ 50, 1.1 Kerr Addison 1985, 1986 samples Au (ppb), Ag (ppm)
- ×920075/ 720, 2.085oz 1987 sampling, Au (ppb), Ag (ppm) unless otherwise mentioned
- 1988 rock (float) sample location, sample number/ Au (ppb), Ag (ppm), unless otherwise mentioned

*NOTE: - Cu, Pb, Zn, As and Sb results reported in Appendices

ABBREVIATIONS : aspy - arsenopyrite
az - azurite
gn - galena
py - pyrite
sp - sphalerite
tet - tetrahedrite

10m 0 10 20 30 40 50 60 70m

SCALE IN METRES

PACIFIC TRANS - OCEAN RESOURCES LTD.

EARL CLAIMS
WHITEHORSE MINING DISTRICT

GEOLOGY & ROCK GEOCHEMISTRY

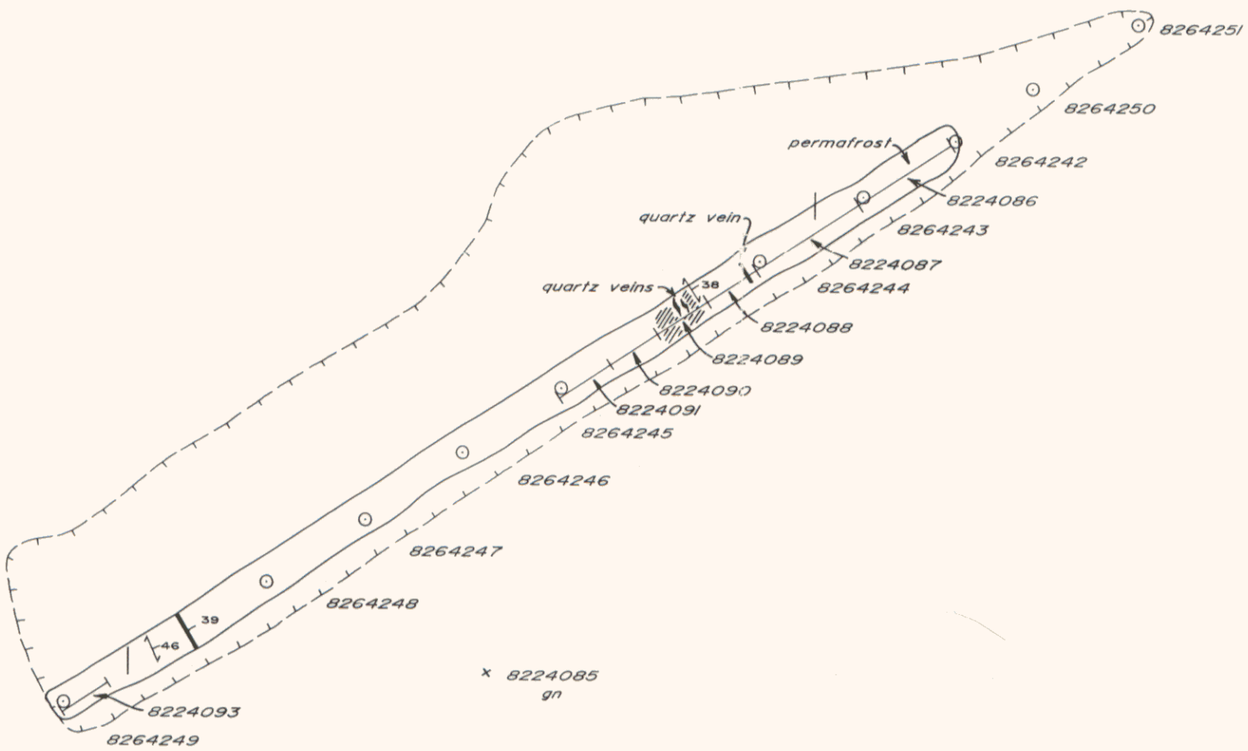
09257S

587

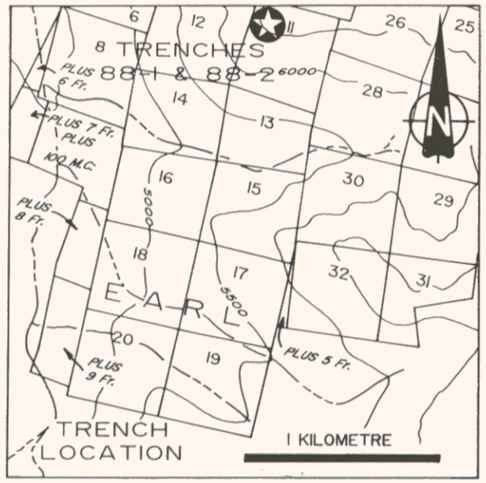
Aurum Geological Consultants Inc.			NOVEMBER, 1988
NTS 105 D/3 & 4	DRAWN BY TAG/NH	SCALE 1:1,000	FIGURE 4

TRENCH GEOCHEMISTRY

Sample No.	Au	Ag	Cu	Pb	Zn	As	Sb
SOIL SAMPLES	ppb	ppm	ppm	ppm	ppm	ppm	ppm
8264242	240.0	4.65	181.0	82.0	526.0	340.0	<1.0
8264243	270.0	5.8	179.0	97.0	453.0	316.0	<1.0
8264244	360.0	7.2	180.0	128.0	605.0	388.0	<1.0
8264245	152.0	4.05	129.0	79.0	380.0	244.0	<1.0
8264246	170.0	3.8	118.0	85.0	356.0	244.0	<1.0
8264247	156.0	3.25	97.0	56.0	257.0	160.0	<1.0
8264248	161.0	3.6	110.0	65.0	303.0	168.0	<1.0
8264249	80.0	1.64	104.0	30.0	201.0	60.0	<1.0
8264250	165.0	4.3	158.0	63.0	292.0	224.0	<1.0
8264251	121.0	2.9	145.0	50.0	274.0	128.0	<1.0
CHIP SAMPLES							
8224086	87.0	1.12	88.0	4.0	62.0	26.0	<1.0
8224087	10.0	0.34	91.0	2.0	102.0	2.0	<1.0
8224088	5.0	0.33	27.0	8.0	74.0	14.0	<1.0
8224089	5.0	1.08	17.0	6.0	83.0	8.0	<1.0
8224090	3.0	0.51	37.0	5.0	54.0	26.0	<1.0
8224091	34.0	0.61	35.0	7.0	96.0	42.0	<1.0
8224092	4.0	0.06	8.0	2.0	18.0	2.0	<1.0
8224093	6.0	0.2	36.0	14.0	82.0	2.0	<1.0
GRAB SAMPLES							
8224085	3400.0 (10.09 opt Au)(3008 opt Ag)	>20.0	840.0	6900.0	316.0	300.0	8.0



VOLUME: 18m x 0.7m x 1.5m = 18.9 cubic metres



LEGEND

LITHOLOGIES

PROTEROZOIC to Early PALEOZOIC

YUKON GROUP

1 phyllite

SYMBOLS

- quartz vein
- 39 quartz vein, attitude
- gossan
- trench boundary
- topographic depression
- 38 foliation, inclined
- 8264243 soil sample location
- x 8224085 rock (float) sample location
- 8224086 chip sample location
- gn galena

1m 0 1 2 3 4 5m

METRES

PACIFIC TRANS - OCEAN RESOURCES LTD.

EARL CLAIMS
WHITEHORSE MINING DISTRICT

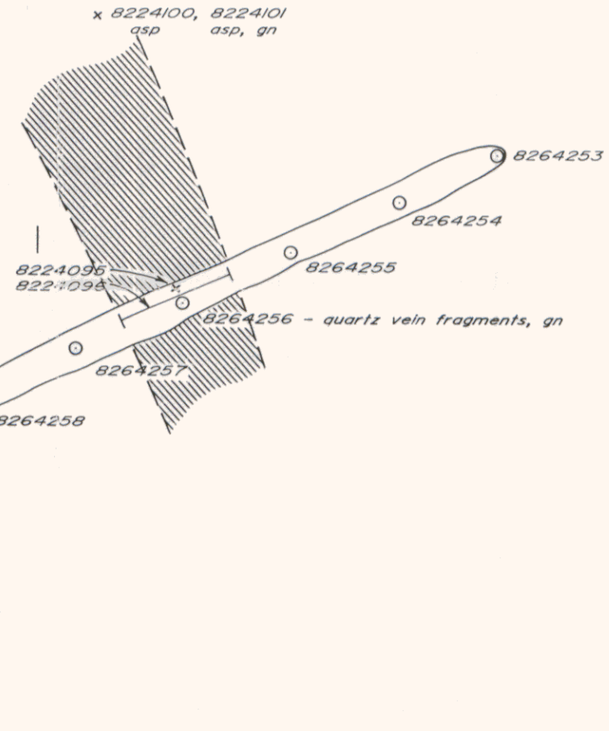
TWIST ZONE
TRENCH 88-1

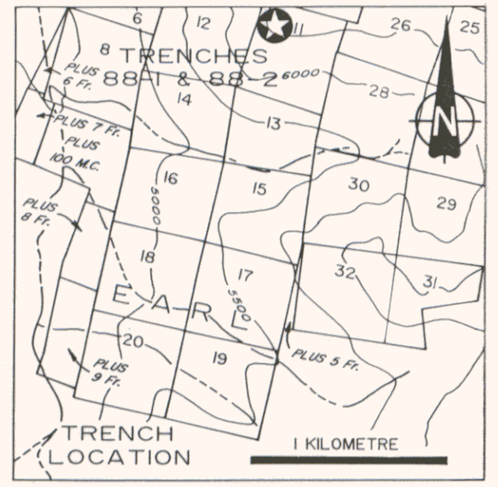
092595

Aurum Geological Consultants Inc.			NOVEMBER, 1988
NTS 105 D/4	DRAWN BY LW	SCALE 1:100	FIGURE: 5

TRENCH GEOCHEMISTRY

Sample No.	Au	Ag	Cu	Pb	Zn	As	Sb
SOIL SAMPLES	ppb	ppm	ppm	ppm	ppm	ppm	ppm
8264253	204.0	10.4	108.0	514.0	426.0	300.0	< 1.0
8264254	121.0	5.0	71.0	763.0	347.0	656.0	< 1.0
8264255	300.0	7.0	88.0	372.0	364.0	192.0	< 1.0
8264256	340.0	6.8	83.0	796.0	360.0	348.0	< 1.0
8264257	106.0	2.8	60.0	271.0	242.0	152.0	< 1.0
8264258	10.0	0.91	54.0	23.0	150.0	48.0	< 1.0
8264259	14.0	0.71	44.0	14.0	123.0	22.0	< 1.0
8264260	2.0	0.72	24.0	6.0	60.0	12.0	< 1.0
8264261	380.0	1.4	57.0	20.0	152.0	36.0	< 1.0
8264262	12.0	0.42	44.0	12.0	119.0	20.0	< 1.0
8264263	3.0	0.24	42.0	15.0	112.0	36.0	< 1.0
8264264	2.0	0.32	46.0	16.0	117.0	32.0	< 1.0
ROCK SAMPLE - composite grab							
8224096	1140.0	> 20 (0.95 opt Ag)	50.0	1700.0	70.0	284.0	< 1.0
ROCK SAMPLES - grab							
8224094	51.0	2.0	49.0	69.0	91.0	60.0	< 1.0
8224095	1040.0	> 20 (1.01 opt Ag)	500.0	5480.0	68.0	106.0	< 1.0
8224100	240.0	< 0.5	39	27	29	1410	5
8224101	144.0	3.9	21	1234	10	65	6





VOLUME: 22m x 0.8m x 1.5m = 26.4 cubic metres

LEGEND

LITHOLOGIES

PROTEROZOIC to Early PALEOZOIC
YUKON GROUP

1 phyllite

SYMBOLS

- quartz vein float
- trench boundary
- 8264254 soil sample location
- x 8224100 rock (float) sample location
- 8224095 composite grab sample location
- asp arsenopyrite
- gn galena

1m 0 1 2 3 4 5m
METRES

PACIFIC TRANS - OCEAN RESOURCES LTD.

EARL CLAIMS
WHITEHORSE MINING DISTRICT

TWIST ZONE
TRENCH 88-2

092595

Aurum Geological Consultants Inc.			NOVEMBER, 1988
NTS 105 D/4	DRAWN BY LW	SCALE 1:100	FIGURE: 6

APPENDIX A
ANALYTICAL METHODS AND RESULTS AND ROCK SAMPLE DESCRIPTIONS

BARRINGER MAGENTA
Laboratories (Alberta) Ltd.

4200B - 10 STREET N.E.
CALGARY, ALBERTA
T2E 6K3
PHONE: (403) 250-1901

November 10, 1987

Mr. Tom Garagan,
Aurum Consultants Ltd.,
#4, 707 - 3 Ave. N.W.,
Calgary, Alberta

Dear Tom,

Enclosed please find summaries of the methods used for the analysis of your rock and soil samples submitted during 1987.

If you have any questions, or require further information, please do not hesitate to contact me.

Yours truly,
BARRINGER MAGENTA LABORATORIES (ALBERTA) LTD.

C. Douglas Read,
President

CDR/lf

ANALYSIS OF ARSENIC:

A 0.500 gram aliquot of sample is leached in 6M HCl and the final volume adjusted. The arsine gas is passed through a lead acetate scrubber and complexed with silver DDC in chloroform, which is then measured on a Spectronic 88 Colorimeter with freshly prepared standards.
The detection limit is 1ppm.
For rock samples, the sample is decomposed with pyrosulphate fusion prior to leaching in HCl.

ANALYSIS OF MERCURY:

A 0.200 gram sample is digested in nitric and sulphuric acids for 3½ hours. After cooling and adjusting the final volume, an aliquot is removed and added to stannous chloride. The mercury vapor evolved is measured on a Varian Techtron atomic absorption spectrometer.
The detection limit is 5 ppb.

ANALYSIS OF ANTIMONY

A 0.500 gram aliquot of sample is leached in 8M HCl and the final volume adjusted. A portion of solution is removed and the antimony is extracted with methyl iso-butyl ketone. The antimony is measured by atomic absorption with freshly prepared standards.
The detection limit is 5 ppm.
For rock samples, the sample is decomposed with a pgrosulfate fusion prior to leaching with HCl.

GEOCHEMICAL ANALYSIS OF GOLD AND SILVER BY FIRE ASSAY AND ATOMIC ABSORPTION

(The detection limit for gold is 2 ppb)

A one assay-ton (29.16 grams) sample is mixed with the standard charge and an aliquot of known concentration of palladium. The palladium acts as an inquart to enhance the collection of small amounts of gold. Following cupellation, the dore bead is completely dissolved in aqua regia. The gold is extracted into methyl isobutyl ketone (MIBK) and subsequently analysed by atomic absorption spectrophotometry (A.A.S.)

Silver may be determined by direct aspiration of the solution by A.A.S. prior to the extraction stage.
The detection limit for silver is 10 ppb.

CONVENTIONAL GRAVIMETRIC ASSAY OF GOLD AND SILVER

(The detection limit for gold is 0.003 ounces per ton)

1. Flux by adding 77 grams of general flux to 30 gram crucible.
2. Roll sample with rolling cloth 20 times.
3. Weigh 1 A.T. (29.166 grams)
4. Mix charge.
5. Add 1ml $AgNO_3$ solution to charge.
   (1 ml $AgNO_3$ solution contains 2 mg of Ag)
6. Cover mixed charge with borax or flux.
7. Fuse charge for 35-40 minutes in gas furnace at 900°C.
8. Pour charge into mould and cool.
9. Remove all slag from lead button with hammer (pound lead square).
10. Preheat cupel (bone ash cupel) in electric furnace for about 15 to 20 minutes. Then put lead square into cupel. The cupellation temperature should be 850°c.
11. After cupellation is complete, remove from furnace and transfer dore (the gold and silver bead) to a porcelain parting cup (size 00 Coors porcelain crucible.)
12. Flatten and clean core by using hammer.
13. Weigh dore on gold balance.
14. Subtract dore weight of blank from sample dore weight.
15. Fill porcelain cup containing dore with 10 ml parting acid (1 part HNO_3:5 parts distilled water) and heat over low temperature hot plate until parting action has ceased (about 15 minutes at 85°C).
16. Decant off parting acid and wash gold with distilled water three times.
17. Dry the crucible and gold on hot plate.
18. The crucible is then heated to a bright red in an open flame

to anneal the gold. When complete, the gold will be gold coloured.

19. Weigh the gold on a gold balance.

20. The difference in weight is the silver assay and the final weight is the gold assay.

Analysis of Lead, Zinc, Copper, Manganese and Iron

A 0.250 gram sample is digested in nitric and perchloric acids for 4 hours. After diluting to a final volume, the solution is analysed for lead, zinc, copper, manganese and iron by atomic absorbtion spectometry. The detection limit is 1 ppm.

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: V88-06892.0 (COMPLETE)

REFERENCE INFO: X

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 1102-7500

SUBMITTED BY: L. WALTON
DATE PRINTED: 26-SEP-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 30g	Gold 30 grams	8	5 PPB	FIRE-ASSAY	Fire Assay AA
2	Ag	Silver	8	0.5 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
3	As	Arsenic	8	5 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
4	Cu	Copper	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
5	Mo	Molybdenum	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
6	Pb	Lead	8	5 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
7	Sb	Antimony	8	5 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
8	Zn	Zinc	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA EMISSION SPEC
9	Hg	Mercury	8	5 PPB	HNO3-HCL HOT EXTR	Cold Vapour AA

SAMPLE TYPES		NUMBER	SIZE FRACTIONS		NUMBER	SAMPLE PREPARATIONS	NUMBER
S	SOILS	4	1	-80	4	DRY, SIEVE -80	4
R	ROCK OR BED ROCK	4	2	-150	4	CRUSH AND SPLIT	4
						GEOCHEM PULVERIZING	4

REPORT COPIES TO: AURUM GEOLOGICAL

INVOICE TO: AURUM GEOLOGICAL

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88
PAGE: 1 OF 13
COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY:P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	FIRE ASSAY AU PPB	FIRE ASSAY AG PPM
8262113	2.0	0.3
8262114	13.0	0.8
8262115	3.0	0.02
8262116	2.0	0.21
8262117	13.0	0.11
8262118	5.0	0.31
8262119	5.0	0.1
8262120	2.0	<0.02
8262121	<2.0	0.63
8262122	15.0	0.19
8262123	<2.0	0.35
8266011	2.0	0.37
8266012	2.0	0.3
8266013	2.0	1.8
8264242	240.0	4.65
8264243	270.0	5.8
8264244	360.0	7.2
8264245	152.0	4.05
8264246	170.0	3.8
8264247	156.0	3.25
8264248	161.0	3.6
8264249	80.0	1.64
8264250	165.0	4.3
8264251	121.0	2.9
8264252	49.0	1.58
8264253	204.0	10.4
8264254	121.0	5.0
8264255	300.0	7.0
8264256	340.0	6.8
8264257	106.0	2.8

EAGL T-1

EAGL T-2

Received Sept 27, 1988 pm

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88

COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY: P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	FIRE ASSAY AU PPB	FIRE ASSAY AG PPM
8264258	10.0	0.91
8264259	14.0	0.71
8264260	2.0	0.72
8264261	380.0	1.4
8264262	12.0	0.42
8264263	3.0	0.24
8264264	2.0	0.32

EARL T-2

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88
PAGE: 3 OF 13
COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY:P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AS PPM
8264242	181.0	82.0	526.0	340.0
8264243	179.0	97.0	453.0	316.0
8264244	180.0	128.0	605.0	388.0
8264245	129.0	79.0	380.0	244.0
8264246	118.0	85.0	356.0	244.0
8264247	97.0	56.0	257.0	160.0
8264248	110.0	65.0	303.0	168.0
8264249	104.0	30.0	201.0	60.0
8264250	158.0	63.0	292.0	224.0
8264251	145.0	50.0	274.0	128.0
8264252	149.0	16.0	163.0	84.0
8264253	108.0	514.0	426.0	300.0
8264254	71.0	763.0	347.0	656.0
8264255	88.0	372.0	364.0	192.0
8264256	83.0	796.0	360.0	348.0
8264257	60.0	271.0	242.0	152.0
8264258	54.0	23.0	150.0	48.0
8264259	44.0	14.0	123.0	22.0
8264260	24.0	6.0	60.0	12.0
8264261	57.0	20.0	152.0	36.0
8264262	44.0	12.0	119.0	20.0
8264263	42.0	15.0	112.0	36.0
8264264	46.0	16.0	117.0	32.0

EARL T-1

EARL T-2

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88
PAGE: 4 OF 13
COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY: P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	SB PPM
8264242	<1.0
8264243	<1.0
8264244	<1.0
8264245	<1.0
8264246	<1.0
8264247	<1.0
8264248	<1.0
8264249	<1.0
8264250	<1.0
8264251	<1.0
8264252	<1.0
8264253	<1.0
8264254	<1.0
8264255	<1.0
8264256	<1.0
8264257	<1.0
8264258	<1.0
8264259	<1.0
8264260	<1.0
8264261	<1.0
8264262	<1.0
8264263	<1.0
8264264	<1.0

EARL T-1

EARL T-2

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88

COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY:P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	FIRE ASSAY AU PPB	FIRE ASSAY AG PPM	CU PPM	PB PPM
8224085	3400.0	>20.0	840.0	6900.0
8216110	7.0	0.8	331.0	10.0
8226125	6.0	3.4	31.0	24.0
8226126	4.0	0.4	59.0	3.0
8226127	3.0	0.77	11.0	13.0
8226128	183.0	0.31	76.0	<1.0
8226129	48.0	0.34	40.0	3.0
8226130	25.0	2.1	38.0	2.0
8226131	32.0	1.82	61.0	23.0
8226132	822.0	3.1	37.0	74.0
8226133	13.0	1.92	15.0	8.0
8226134	48.0	0.27	56.0	2.0
8226135	4.0	0.32	22.0	5.0
8222066	4.0	0.2	9.0	3.0
8222067	7.0	1.2	45.0	17.0
8222068	47.0	0.41	12.0	2.0
8222069	11.0	0.4	19.0	23.0
8222070	44.0	0.26	12.0	3.0
8222071	5.0	0.7	31.0	5.0
8222072	520.0	10.3	19.0	882.0
8222073	424.0	13.6	1410.0	243.0
8222074	480.0	1.2	14.0	64.0
8222075	300.0	7.0	18.0	660.0
8222076	127.0	0.51	8.0	32.0
8222077	640.0	>20.0	19.0	859.0
8222078	540.0	>20.0	27.0	475.0
8222079	8.0	0.5	6.0	2.0
8222080	102.0	0.48	7.0	2.0
8222081	80.0	1.96	10.0	184.0
8222082	181.0	4.3	12.0	120.0

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88
PAGE: 10 OF 13
COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY:P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	FIRE ASSAY AU PPB	FIRE ASSAY AG PPM	CU PPM	PB PPM
EPCL South Grid Boundary float T-2 8222083	900.0	>20.0	49.0	1780.0
8222084	1520.0	>20.0	126.0	2240.0
8224084	500.0	4.0	50.0	33.0
8224086	87.0	1.12	88.0	4.0
8224087	10.0	0.34	91.0	2.0
8224088	5.0	0.33	27.0	8.0
T1 8224089	5.0	1.08	17.0	6.0
8224090	3.0	0.51	37.0	5.0
8224091	34.0	0.61	35.0	7.0
8224092	4.0	0.06	8.0	2.0
8224093	6.0	0.2	36.0	14.0
8224094	51.0	2.0	49.0	69.0
T2 8224095	1040.0	>20.0	500.0	5480.0
8224096	1140.0	>20.0	50.0	1700.0

14

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88
PAGE: 11 OF 13
COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY: P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	ZN PPM	AS PPM	SB PPM
8224085	316.0	300.0	8.0
8216110	91.0	4.0	<1.0
8226125	64.0	22.0	<1.0
8226126	56.0	<1.0	<1.0
8226127	65.0	2.0	<1.0
8226128	129.0	3.0	<1.0
8226129	84.0	10.0	<1.0
8226130	80.0	12.0	<1.0
8226131	127.0	82.0	<1.0
8226132	79.0	300.0	<1.0
8226133	92.0	50.0	<1.0
8226134	84.0	8.0	<1.0
8226135	46.0	24.0	<1.0
8222066	19.0	2.0	<1.0
8222067	302.0	4.0	<1.0
8222068	43.0	<1.0	<1.0
8222069	35.0	1.0	<1.0
8222070	28.0	2.0	<1.0
8222071	154.0	2.0	<1.0
8222072	24.0	352.0	<1.0
8222073	498.0	78.0	<1.0
8222074	17.0	332.0	<1.0
8222075	22.0	102.0	<1.0
8222076	15.0	84.0	<1.0
8222077	14.0	1152.0	<1.0
8222078	38.0	1200.0	<1.0
8222079	42.0	6.0	<1.0
8222080	12.0	64.0	<1.0
8222081	23.0	292.0	<1.0
8222082	11.0	180.0	<1.0

EARL

Earl
South Grid Boundary

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88
PAGE: 12 OF 13
COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY:P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	ZN PPM	AS PPM	SB PPM
8222083	25.0	200.0	3.0
8222084	47.0	316.0	12.0
8224084	103.0	528.0	<1.0
8224086	62.0	26.0	<1.0
8224087	102.0	2.0	<1.0
8224088	74.0	14.0	<1.0
8224089	83.0	8.0	<1.0
8224090	54.0	26.0	<1.0
8224091	96.0	42.0	<1.0
8224092	18.0	2.0	<1.0
8224093	82.0	2.0	<1.0
8224094	91.0	60.0	<1.0
8224095	68.0	106.0	<1.0
8224096	70.0	284.0	<1.0

BARRINGER
Laboratories (Alberta) Ltd.
4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
PHONE: (403) 250-1901

BARRINGER
Laboratories (NWT) Ltd.
P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6
PHONE: (403) 920-4500

20-SEP-88
PAGE: 13 OF 13
COPY: 3 OF 4
C O P Y
PROJECT: 1102

AUTHORITY: P. MAHEUX

AURUM CONSULTANTS LTD.
P.O. BOX 5179
WHITEHORSE, YUKON

ATTN: P. MAHEUX

WORK ORDER: 5302D-88

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	ASSAY FIRE ASSAY AU OZ/TON	ASSAY FIRE ASSAY AG OZ/TON
8224085	0.09	30.08
8222077	NA	1.42
8222078	NA	0.86
8222083	NA	5.69
8222084	NA	14.12
8224095	NA	1.01
8224096	NA	0.95

SIGNED: Sigmund Szady for
C. Douglas Read,
LABORATORY MANAGER

ORIGINAL TO:
AURUM GEOLOGICAL CONSULTANTS
VANCOUVER, B.C. V6B 1N2
T. GARAGAN

FOOTNOTES:
P=QUESTIONABLE PRECISION; *=INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: V88-06892.0 | PROJECT: 1102-7500 | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Pb PPM	Sb PPM	Zn PPM	Hg PPB
S1 8264300		288	<0.5	90	7	8	92	<5	166	35
S1 8264301		811	5.3	135	4	9	58	<5	34	25
S1 8264302		995	3.0	132	4	11	68	6	83	10
S1 8264303		38	<0.5	55	4	7	62	<5	150	10
R2 8220003		62	6.8	400	22	3	18	<5	8	15
R2 8220004		9	<0.5	33	145	5	24	5	13	<5
R2 8224100		240	<0.5	1410	39	2	27	5	29	5
R2 8224101		144	3.9	65	21	8	1234	6	10	5

AURUM GEOLOGICAL CONSULTANTS INC. ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: August 28, 1988 Project: EARL Caims Area: PTO - Mt.Skukum

Sample No.	Location	Description	Width	Analytical Results						
				Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm
822-2072	near L52+25N 29+25N	Quartz vein material with lt br phyllitic wallrk,weathers lt br-orange with quartz massive & coarse grained (white to lt br on fresh surface).Contains up to 5% vugs;uneven fracture.Up to 5% sulphides present in vugs & fractures.Up to 5% sulphides present;galena 4%,Pyrite + Sphalerite = 1%. Tetrahedrite (+ freibergite?) occurs along fractures (to 3%) sulphides generally occur as disseninations or subhedral blebs. Arsenopyrite is locally present to 2%.	float 2 by 3m	520	10.3	352	19	882	24	<1.0
822-2073	near L52+25W 29+25N	Similar to 822-2072,but contains up to 3% azurite(present as anhedral blebs). Graphite locally abundant in fractures. Float is angular.	float 10cm boulder	424	13.6	78	1410	243	498	<1.0
822-2074	L52+27W/29+50N	Light br weathering subangular quartz float,massive & coarse grained.Up to 5% limonite present on fractures;2% Mn oxides also present. Fracture uneven with wallrock dk grey weathering silicified phyillite.Minor graphite on fractures.	float 8cm boulder	480	1.2	332	14	64	17	<1.0
822-2075	near L52+00W/ 29+00N	Subangular,lt br weathering quartz. Massive & coarse grained;whitish-br on fresh surfaace.Limonite to 5% as fracture coatings.Up to 3% disseminated galena & 1% disseminated pyrite,with tr arsenopyrite & tetrahedrite. Galena & tetrahedrite occur along 0.5 - 1cm wide bands.Up to 3% limonite vugs also present.	float 30 by 15cm	300	7.0	102	18	660	22	<1.0
822-2076	near L52+00W 29+00N	Rusty to whitish weathering massive quartz.Coarsely cyrtalline & white to lt br fresh surface.Up to 2% tetrahedrite present as fine grained irregular bands(1-3mm wide).Pyrite <1% disseminated and tr arsenopyrite.Up to 4% limonite in vugs & fracture coatings;subangular.	float 10 by 8 by 8cm	127	.51	84	9	32	15	<1.0

* opt

AURUM GEOLOGICAL CONSULTANTS INC. ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: August 28, 1988 Project: EARL Caims Area: PTO - Mt.Skukum

Sample No.	Location	Description	Width	Analytical Results						
				Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm
822-2077	south of L52+00W 29+00N	Subangular,white-br weathering,breccia quartz vein float.Contains up to 25% silicified phyllite frag(dk grey weathering).Quartz weathers white-br & coarse grained.Up to 5% limonite in fractures, also up to 1% disseminated pyrite;rusty to white on fresh surface.Wallrock frags 2-4cm in diamenter.	float 8 x 6 x 8cm	640	*1.42	1152	19	859	14	<1.0
822-2078	South of L52+00W 29+00N	Similar to 822-2077,up to 20% wallrock frags present(1-4cm in diameter).Trace disseminated pyrite;angular float.	float 2 x 2m area	540	*0.86	1200	27	475	38	<1.0
822-2079	SW of L52+00W 29+00N	Vuggy,breccia quartz vein(subangular). Lt grey on fresh and weathered surfaces; contains up to 30% vugs.Quartz is massive,less commonly as isolated,euhedral crystals in vugs.Up to 10% silicified wallrock frags(1-3cm) & up to 5% limonite as fracture coatings.	float 6 x 8 x 8cm	8	0.5	6	6	2	42	<1.0
822-2080	SE of L52+00W 29+00N	Rusty weathering,coarse grained quartz vein material.White to rusty on fresh surface;no wallrock visible.Up to 1% disseminated pyrite present along with trace tetrahedrite(along fractures) & galena.Up to 4% limonite as fracture coatings alos present;float subangular.	float 2 x 1m area	102	0.48	64	7	2	12	<1.0
822-2081	SE of L52+00W 29+00N	Rusty weathering,coarse grained quartz vein material.Similar to 2080;however, up to 5% disseminated arsenopyrite,no visible pyrite or galena;angular float.	float 10 x 8 x 6cm	80	1.96	292	10	184	23	<1.0
822-2082	SE of L52+00W 29+00N	Similar to 2080,but with up to 4% disseminated galena & up to 2% disseminated pyrite.	float 15 x 10 x 8cm	181	4.3	180	12	120	11	<1.0
822-2083	SE of L52+00W 29+00N	Rusty weathering,coarse grained quartz contains up to 5% limonite lined vugs. Fresh surface is white to lt rust coloured & fracture is uneven.Up to 2% disseminated galena,1% pyrite,2% tetra-	float 2 x 1m area	900	*5.69	200	49	1780	25	3.0

* opt

AURUM GEOLOGICAL CONSULTANTS INC. ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: August 28, 1988 Project: EARL Caims Area: PTO - Mt.Skukum

Sample No.	Location	Description	Width	Analytical Results						
				Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm
		hedrite occurs as irregular bands.No wallrock frags visible;subangular float.								
822-2084	L52+00W/29+10N	Similar to 2083 but with up to 4% disseminated galena.Rare wallrock frags (1-2cm);angular float.	float 2 x 2m area	1520	*14.12	316	126	2240	47	12
822-4088	Trench #1	Br weathering,moderately fissile phyllite.Up to 2% limonite as fracture coatings.Contains up to 50% white to lt grey bull quartz.	subcrop 2 x 1m	5	0.33	14	27	8	74	<1.0
822-4086	Trench #1	Br weathering,moderately fissile phyllite.Slightly limonitic but contains no visible quartz.	float 2 x 1m	87	1.12	26	88	4	62	<1.0
822-4087	Trench #1	Similar to #4086 but greater degree of fissility.Up to 3% limonite on fractures.	float 2m x 1m	10	0.34	2	91	2	102	<1.0
822-4089	Trench #1	Rusty weathering,strongly fissile phyllites containing up to 40% bull quartz (grey on fresh surface).Quartz bands are parallel to foliation.Up to 5% limonite on fractures.	subcrop 2m x 1m	5	1.08	8	17	6	83	<1.0
822-4090	Trench #1	Similar to #4089.Bull quartz bands may contain up to 5% limonite on fractures; rusty weathering.	subcrop 2m x 1m	3	0.51	26	37	5	54	<1.0
822-4091	Trench #1	Br weathering,extremely fissile phyllites. No quartz present in sample and only 1% limonite on fractures.	subcrop 2m x 1m	34	0.61	42	35	7	96	<1.0
822-4093	Trench #1	Br grey moderately fissile phyllites, grey on fresh surface.No quartz present & up to 3% limonite present in fractures.	subcrop 2m x 1m	6	0.2	2	36	14	82	<1.0
822-4084	W end of trench 1986 at ridgetop	Rusty weathering quartz vein contining areas of medium grey quartz; 3-5% disseminated pyrite,or in small (2-3mm) clusters.	float 15 x 10cm	500	4	528	50	33	103	<1.0

* opt

AURUM GEOLOGICAL CONSULTANTS INC. ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: August 28, 1988 Project: EARL Caims Area: PTO - Mt.Skukum

Sample No.	Location	Description	Width	Analytical Results						
				Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm
822-4085	Trench 88-1	Rusty weathering quartz vein with phyllite breecia frags,very crude banding of minerals in one direction.Vein is sheared along opposite(perpendicular)direction. Minor galena,pyrite,trace malachite. Abundant limonite/clay.Limonite is common in small vugs with drusy quartz crystals. Similar to 103 opt Ag sample downslope.	float 35 x 10 x 8cm	3400 *0.09	*30.08	300	840	6900	316	8.0
822-4092	Trench 88-1	White bull quartz vein; white to medium grey quartz;glass - follows phyllite foliation.		4	0.06	2	8	2	18	<1.0
822-4094	Trench 88-2	Composite grab sample very limonite rich(80-90%) phyllite/quartz vein. Crenulated phyllite,white milky quartz veinlets <1cm.		51	2	60	49	69	91	<1.0
822-4095	Trench 88-2	Rusty weathering white/grey quartz vein containing 5% galena,tetrahedrite,pyrite and malachite.Small vugs with limonite. Dk grey quartz comprises 10-20% of sample. Vein appears to be younger'& epigenetic relative to the whaite bull quartz metamorphic veins.		1040	*1.01	106	500	5480	68	<1.0
822-4096	Trench 88-2	Quartz vein frags show shearing.Blk tarnished mineral up to 15% of frags. Abundant limonite phyllite frags.Minor (<5%) tetrahedrite,malachite,galena. Minor clay gouge.Ribbon banding of phyllite within quartz common.Limonite filled shears & vugs common.	comp grab over 2m width	1140	*0.95	284	50	1700	70	<1.0
822-6128	L53+35W/29+70N from talus near trench 88-2	Dk grey/orange/yellow gossanous altered metased;fine to very fine grained,medium grey on fresh(meata greywacje) with 1% very fine disseminated pyrite; 1%(1-2mm) quartz veinlets;2% limonite alteration.	float 8 x 10cm	183	0.31	3	76	<1.0	129	<1.0

* opt

AURUM GEOLOGICAL CONSULTANTS INC. ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: August 28, 1988 Project: EARL Caims Area: PTO - Mt.Skukum

Sample No.	Location	Description	Width	Analytical Results						
				Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm
822-6129	L53+25W/3+00N NE end of trench 87-01	Metased to phyllite float in trench; rusty br weathered surface;medium to dk grey,fine to very fine grained on fresh surface,2% finely disseminated pyrite; 1-2% limonitic staining.	float 8 x 9cm	48	0.34	10	40	3	84	<1.0
822-6130	L55+35W/30+22N	Dk br/grey weathering phyllite meta-greywacke;fractured & folded grey quartz vein (2cm wide) micaeous (biotite/chlorite) bands within fractured vein. 1-2% limonitic alteration in pods.	float 8 x 12cm	25	2.1	12	38	2	80	<1.0
822-6131	L55+34W/30+25N	Orange/lt br weathering very fine grained,lt to medium green/grey altered rhyolite?; 2% finely dissimenated pyrite & as clots with 1-2mm cubes,very fine (parallel) fractures (0.5-2cm spacings) minor quartz veinlets (+ pyrite stringers & calcite veinlets;2% limonitic alteration along fractures.	float 8 x 12cm	32	1.82	82	61	23	127	<1.0
822-6132	L55+30W/30+33N beside YE6J2R	Rusty weathering,green/grey on fresh surface;chloritized sericitized rhyolite 1-2% very fine disseminated pyrite; 1-2% grey rusty stained quartz veins (0.5cm wide);1% calcite as veins and pods;3-5% fractures;recessively weathering carbonate filled.	float 5 x 4cm several pieces	822	3.1	300	37	74	79	<1.0
822-6133	L53+34W/30+35N	Dk br to rusty br;orange/br on fresh; altered & silicified with <1% very fine disseminated pyrite;3-5% calcite/quartz veins;2% limonitic staining along fractures;possibly silicified metased or rhyolite;1% Mn staining.	float 13 x 15cm	13	1.92	50	15	8	92	<1.0
822-6135	L55+50W/30+50N	Orange/br to grey weathering;grey/white quartz(40%) with brecciated metaseds; grey to green on fresh surface with # fractures with calcite & quartz vuggy fillings;1-2% limonitic,1% Mn staining.	float 5 x 20cm	4	0.32	24	22	5	46	<1.0

AURUM GEOLOGICAL CONSULTANTS INC. ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: August 28, 1988 Project: EARL Caims Area: PTO - Mt.Skukum

Sample No.	Location	Description	Width	Analytical Results								
				Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	Mo ppm	Hg ppb
822-6134	L53+38W/30+33N	Rusty/br weathering,very fine grained blue-grey sugary metagreywacke? with 1-2% very fine disseminated pyrite; 2% limonitic alteration along approx. parallel fractures; 1% quartz & calcite veinlets,minor pyrite stringers along quartz veins.	float 9x10cm	48	0.27	8	56	2	84	<1.0		
822-4100	near trench 88-2	Rusty weathered white bull quartz vein with limonite vugs,phyllite frags & 1% thin streaks fine grained arsenopyrite with minor pyrite; rx is heavy(barite?).		240	<0.5	1410	39	27	29	5	2	5
822-4101	near trench 88-2	White milky quartz vein with streaks & pods of very fine grained grey material suspect arsenopyrite up to 3%.		114	3.9	65	21	1234	10	6	8	5

APPENDIX B
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, LORI A. WALTON with business address:

Aurum Geological Consultants Inc.
604 675 West Hastings Street
Vancouver, B.C.

do hereby certify that:

1. I am a practicing geologist.

2. I hold a Bachelor of Science (Specialization) Degree (1982) from the University of Alberta.

3. I hold a Master of Science Degree (1987) from the University of Alberta.

4. I am a member of the Yukon Professional geoscientists Society.

5. I have been working in the field of mineral exploration since May of 1980.

6. I have no interest in the claims nor so I expect to obtain any.

7. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

DATED at Whitehorse, Yukon, this 7th day of December 1988.

Lori Walton

Lori A. Walton, M.Sc.

STATEMENT OF QUALIFICATIONS

I, THOMAS GARAGAN, hereby certify that:

1. I am a geologist with Aurum Geological Consultants Inc. of 604 675 West Hastings Street, Vancouver, B.C. and I co-authored this report.

2. I obtained a Bachelor of Science degree with Honours in Geology from the University of Ottawa, Ontario, in 1980.

3. I am a Fellow of the Geological Association of Canada (F3819) and a member of the Mineralogical Association of Canada and the Yukon Professional Geoscientists Society.

4. I have been engaged in mineral exploration and geological survey mapping on a full and part time basis for 11 years, of which 8 have been spent on mineral exploration programs in the Yukon Territory.

5. I have no interest in the claims or securities of Pacific Trans-Ocean Resources Ltd.. However, my spouse owns 2000 shares of Pacific Trans-Ocean Resources Ltd.

6. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

DATED at Calgary, Alta., this 5th day of December 1988.

Thomas Garagan, B.Sc., FGAC

APPENDIX C
STATEMENT OF COSTS

APPENDIX C

EARL 1-32 CLAIMS
TRENCHING STATEMENT OF COSTS

*All trenches are in EARL 15 claim

1. Labour:

Supervision of trenching, trench sampling between August 26 and August 30, 1988.

L. Walton (2 mandays @ $240/day)	$	480.00
C. Hood (1 manday @ $160/day)		160.00
Total Labour Costs	$	640.00

2. Trenching:

August 25 to 31, 1988: M.J.Moreau Enterprises Ltd. Invoice to Aurum Geological Consultants Inc.

4 1/2 days @ $800/day (compressor & 3 people	$	3,600.00
Blasting supplies		993.84
Total Trenching Costs	$	4,593.84

3. Geochemistry:

Barringer-Magenta Lab

Twenty-two soil samples for Au, Ag, Cu, Pb, Zn, As, Sb analysis @ $19.00 each	$	418.00
Twelve rock samples for Au, Ag, Cu, Pb, Zn, As, Sb analysis @ $21.75 each	$	261.00

Bondar-Clegg Lab

Two rock samples (RUSH) for Au, Ag, As, Pb, Zn, Sb, Hg analysis @ $30.75 each	$	61.50
Total Geochemical costs	$	740.50

4. Helicopter:

Used a Trans North Turbo Air Hughes 500-D helicopter based at Omni Resources Skukum Creek camp and a Tans North Turbo Air Jet Ranger 206 from Whitehorse.

3.5 hrs @ $600/hr	$ 2,100.00
1.0 hr @ $550/hr	550.00
4.5 hrs fuel @ $0.65 Lt @ 114 lt/hr	333.45
4.5 hrs oil @ $2.60/hr	11.70
Total Helicopter Costs	$ 2,995.15

4. Camp Costs:

Billed to Pacific Trans-Ocean Resources Ltd by Aurum

3 mandays @ $60/manday	$ 180.00

Total Actual Costs of Assessment	**$ 9,149.49**
Total Assessment Costs Filed	**$ 3,200.00**