MAP NO.	ASSESSMENT REPORT	X	DOCUMENT NO.:	092652
	PROSPECTUS		MINING DISTRICT:	WATSON LAKE
105 F 9,	CONFIDENTIAL	X	TYPE OF WORK:	GEOPHYSICAL, RECONNAISSANCE
105 G 12	OPEN FILE			GEOLOGICAL and GEOCHEMICAL

REPORT FILED UNDER: Welcome North Mines Ltd.

DATE PERFORMED: April 23-27, May 28 - June 9, 1988 DATE FILED: December 16, 1988

LOCATION: LAT.: 61°40'N AREA: Ketza River

LONG.: 132°00'W VALUE $: 7,000.00

CLAIM NAME & NO.: STAR 1-40, 55-94, 109-148, 163-202 YB10208-247, 262-301, 316-355, 370-409

WORK DONE BY: R.G. Potter

WORK DONE FOR: Welcome North Mines Ltd.

DATE TO GOOD STANDING		REMARKS:
		#53 STARR Helicopter borne magnetic, electromagnetic
		and VLF-EM surveys outlined several resistivity-high anomalies
		which likely correlate with Eocene rhyolites. Follow-up soil
		and rock geochemistry found no gold, silver, nor arsenic
		anomalies.

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
DEC 2 1988
WHITEHORSE
YUKON TERRITORY

EXPLORATION REPORT

ON THE

STAR II CLAIMS

N.T.S. 105F/9, G/12

LATITUDE: 61°40'N
LONGITUDE: 132°00'W

RECEIVED
16 DEC 1988
MINING RECORDER
WATSON LAKE, Y.T.
LA. & N.D.

STAR 1 TO 40
STAR 55 TO 94
STAR 109 TO 148
STAR 163 TO 202

WATSON LAKE MINING DISTRICT

FOR

WELCOME NORTH MINES LTD.
15th FL., 675 W. HASTINGS STREET
VANCOUVER, B.C.
CANADA
V6B 1N2

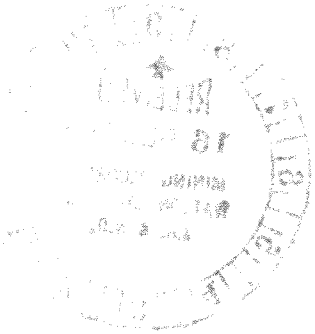
BY

R.G. Potter, P.Eng.

DECEMBER, 1988

(WORK DONE DURING APRIL 23 TO 27, AND MAY 28 TO JUNE 9, 1988)

092652



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 $ 7,000.00.

D D Emond

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

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I. SUMMARY AND RECOMMENDATIONS

Star II claims lie along the Tintina Trench, 70 kilometers southeast of Grew Creek. The area is prospective for Tertiary-age felsic volcanic rocks of the type which hosts epithermal gold mineralization at Grew Creek.

The 1988 program on Star II consisted of a helicopter-borne magnetic, electromagnetic and VLF-EM survey followed up by reconnaissance geology and goechemistry.

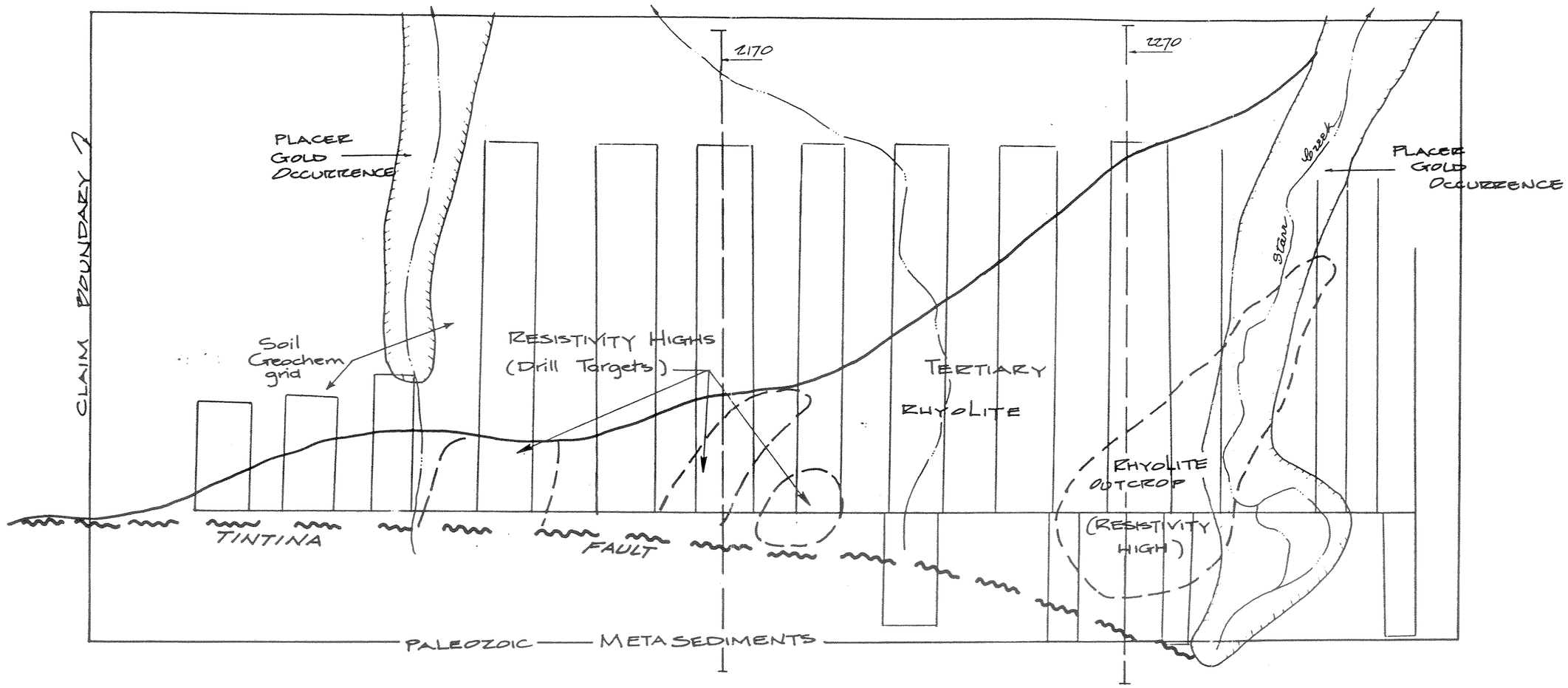
Paleozoic metasediments are well exposed on the high area along the Pelly Mountain front. These include slates, phyllites and quartzites. West of Starr creek Eocene-age rhyolitic volcaniclastic rocks are well exposed. No evidence was found of silicification, quartz veining or sulphide mineralization in the rhyolites. Rare outcrops of Eocene-age olivine basalt are found along the northern edge of the property.

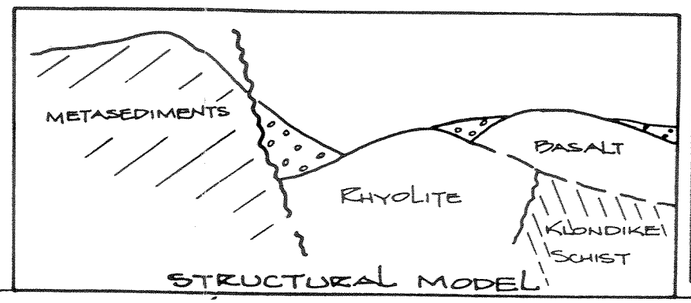
Soil and rock sampling was concentrated over the area of rhyolite outcrop and its postulated extension to the northwest. A total of 315 soils and 27 rock samples were collected. No areas were found to be anomalous in gold, silver or arsenic.

Airborne surveys define the area of Paleozoic rocks (numerous EM linears, low magnetic response) and Tertiary basalts (strong magnetic response). The area of rhyolites is characterized by a relatively flat magnetic signature and high resistivities. Overburden covered terrain of similar characteristics to the northwest is prospective for Eocene rhyolite. It could be investigated by low-cost reverse circulation drilling.

Respectuflly submitted,

Robert G. Potter, P.Eng.





STRUCTURAL MODEL

STAR II CLAIMS
COMPILATION MAP

0 500 1000m

FIG 1

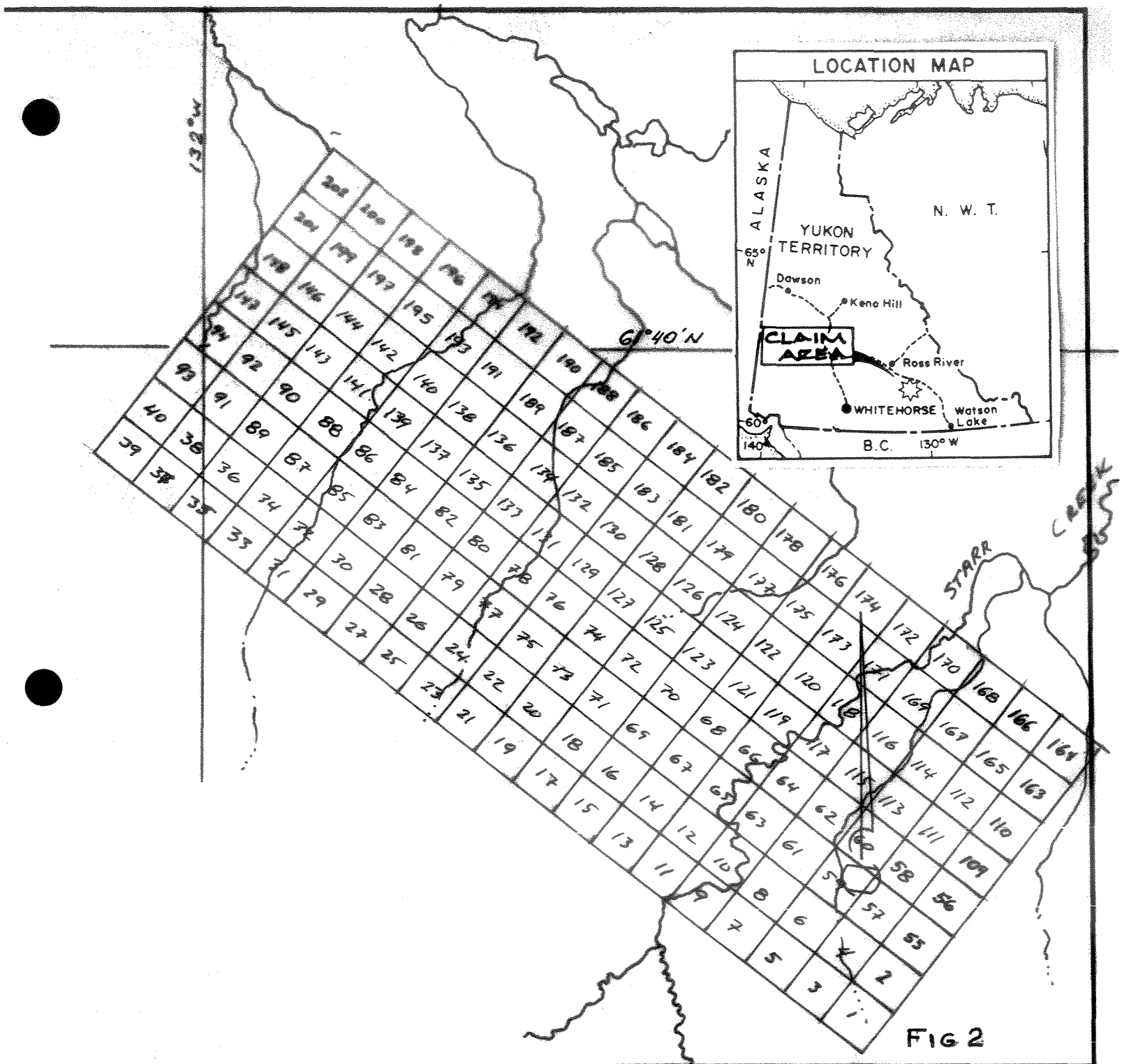


FIG 2

WELCOME NORTH MINES LTD.
VANCOUVER, BRITISH COLUMBIA

STAR II CLAIMS

LOCATION MAP

YUKON TERRITORY

Work by : Robert Potter	N.T.S. : 105 G
Drawn by: Robert Potter	Scale 1: 50,000
Date : Sept 1988	

II. INTRODUCTION

In April of 1988, Welcome North Mines Ltd. commissioned a helicopter-borne magnetic, electromagnetic, and VLF survey to cover a section of the Tintina Trench between Lapie and Hoole Rivers. The Star II claims lie within this area.

The airborne program was followed up by surface work including reconnaissance geology, soil geochemistry and prospecting. The ground program was carried out by a crew consisting of one geologist/project manager, one prospector and five soil samplers. A total of 315 soil samples and 27 rock samples were collected for analysis by Min-En Laboratories of North Vancouver for gold, silver and arsenic.

Details of the results of the geophysical survey are described in a report by R.J. de Carle, consulting geophysicist dated August 31, 1988. A discussion of the results of the airborne work is included herein, but the principal focus of the present report is a description of the surface exploration program. De Carle's report is also submitted in support of assessment claims for the Star II and other Welcome North properties along the Tintina Trench.

III. PROPERTY, LOCATION AND ACCESS (Figure 2)

The Star II property consists of 160 full-sized mineral claims. All claims are currently registered in the name of Welcome North Mines Ltd. in the Watson Lake Mining District as follows:

Claim Name	Grant No.	Record Date
STAR 1-40	YB10208 to YB10247	December 03, 1987
55-94	YB10262 to YB10301	"
109-148	YB10316 to YB10355	"
163-202	YB10370 to YB10409	"

The property is located on the south side of the Tintina Trench, 45 kilometers southeast of Ross River and 70 kilometers southeast of Noranda's Grew Creek epithermal gold discovery (NTS 105G/12). Ross River is reached by all weather road from Whitehorse via Carmacks and is also served by daily scheduled flights from Whitehorse.

Access to the property is by helicopter from Ross River. Mobilization from Ross River can be effected in part via the Ketza River road which lies 15 kilometers northwest of Star II.

The claims cover the steep Pelly Mountain front and extend to the northeast across low relatively flat terrain. Elevations range from about 3000 to 5000 feet ASL. Starr Creek, a northward flowing tributary of the Pelly River cuts a deep valley across the property.

Star II claims are covered to an elevation of 4500 feet by a mixed growth of spruce and fir.

IV. HISTORY

The area of the Starr Creek rhyolite was staked by Amax in August, 1980 (Rush claim YA56459). No record of work carried out by Amax is known to the writer.

Archer Cathro NCMI, NTS 105G Occ. 103.

The Pelly Mountain area was staked by Welcome North Mines et al under the Woodside project. This was primarily a base metal exploration effort directed toward the Lower Paleozoic sediments south of the Tintina Trench.

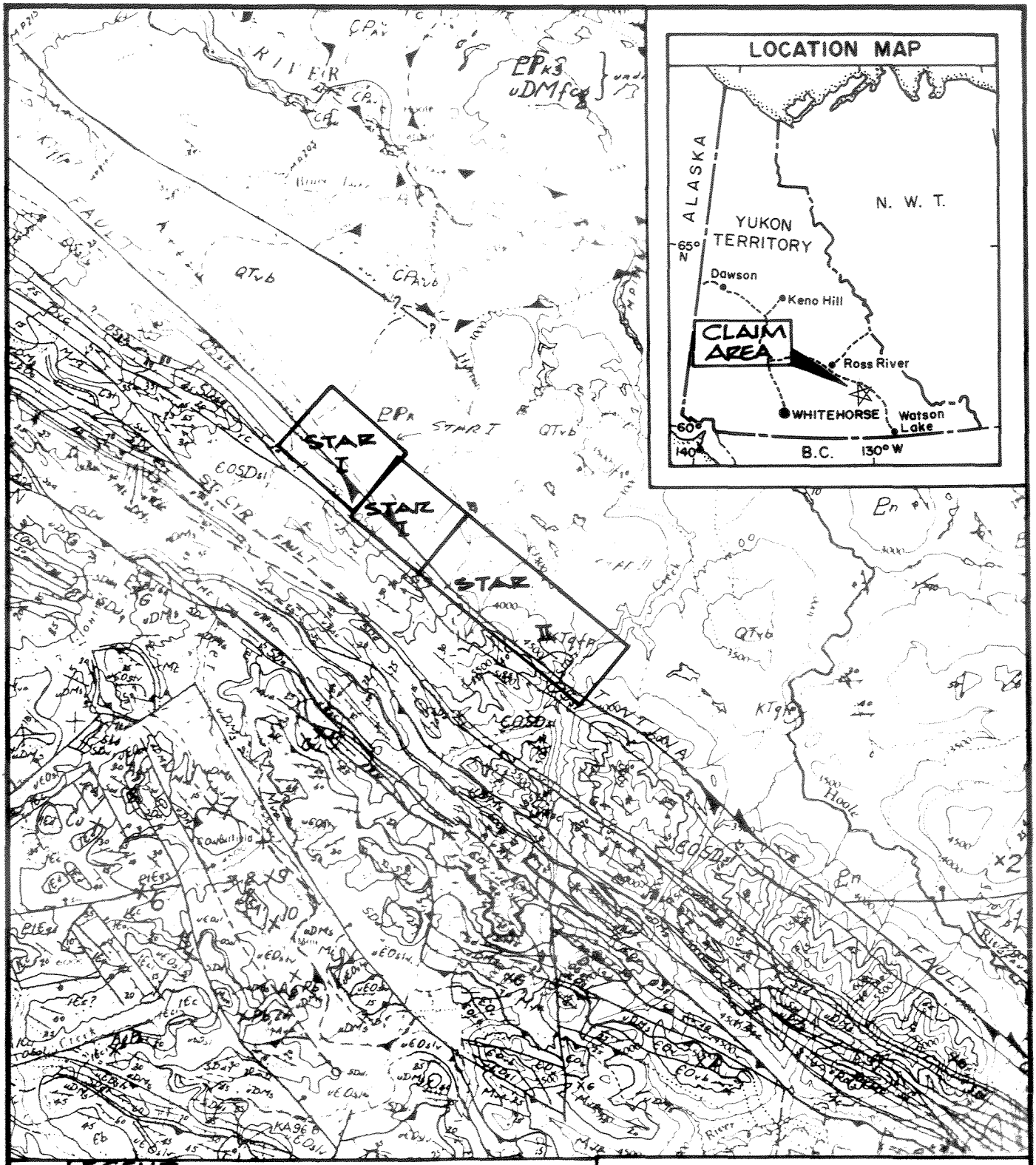
V. GEOLOGICAL SETTING (Fig. 3)

The subject property is located along the Tintina Trench. This major northwest trending feature is the locus of about 450 kilometers of dextral offset which occurred during the Mid and Late Cretaceous (Roddick 1967, Templeman-Kluit 1979).

The area northeast of Tintina is that of the Selwyn Fold Belt which comprises a diverse assemblage of clastic, carbonate, volcanic, ultramafic, and granitic rocks of Hadrynian to Tertiary age. Superimposed on this terrain are remnants of pre-Mid Cretaceous thrust sheets which include basic volcanics and ultramafics (Anvil Allochthon).

To the southwest of Tintina lies the Pelly-Cassiar Platform which comprises thrust wedges of Lower Paleozoic clastic and carbonate metasediments.

Basalts, rhyolites, and derived sediments of Eocene age occur in structural basins along the Tintina Trench. At Grew Creek felsic volcanic and volcaniclastic rocks are preserved in a northwesterly trending graben. Epithermal gold mineralization is found here associated with silicic and acid sulphate alteration of the host rocks. Mineralized zones are also anomalous in arsenic and silver.



LEGEND

CRETACEOUS & TERTIARY

- QTvb — Basalt
- KTqfp — Rhyolite tuffs & breccia

CARBONIFEROUS & PERMIAN (Anvil - Campbell Allochthon)

- CPub — Dunite, peridotite & serpentine

ORDOVICIAN & SILURIAN

- OSSl — Slate, quartzite limestone

AGE UNKNOWN - KLONDIKE SCHIST

- EPks — Schist, Phyllite, Gneiss

TINTINA FAULT

FIG. 3

WELCOME NORTH MINES LTD.
VANCOUVER, BRITISH COLUMBIA

STAR CLAIMS

REGIONAL GEOLOGY

YUKON TERRITORY

Work by : Robert Potter	N.T.S. : 105 G
Drawn by: Valri Hutchings	Scale 1:250,000
Date : Sept 1988	Figure :

II. 1988 PROGRAM

The 1988 exploration program on Star II was structured to assess its potential for "Grew Creek type" mineralization or that related to subsidiary structures of the Tintina Fault system. In April of 1988, Aerodat Limited of Toronto conducted a helicopter-borne magnetic, electromagnetic and VLF-EM survey of three blocks of ground southeast of Ross River. Included in the areas covered were Star II claims. Flights were made between April 23 and April 27, 1988, along lines oriented at an azimuth of 045-225° at a nominal line spacing of 200 meters and mean terrain clearance of 60 meters. Equipment operated included a three frequency electromagnetic system, a cesium vapor magnetometer, a 2-frequency VLF-EM system, a film tracking camera, a radar positioning system, and an altimeter.

Ground follow-up to the airborne survey consisted of reconnaissance geology, soil geochemistry, and prospecting. Fieldwork was carried out by a nine man crew supervised by the writer during the period May 28 to June 9, 1988. Personnel and field equipment for the program were mobilized from Ross River with a Trans North Ltd. Bell 206B helicopter. Supplies and expediting services were provided by Ross River Service Centre Ltd.

Control for the surveys was established by compass and hip chain on lines laid out at azimuth 040° from a base line along the foot of the Pelly Mountain front. Line spacing was a nominal 400 meters with 200 meter spacing over areas of high rhyolite outcrop occurrence. Flagged sample stations were set at 50 meter intervals on cross lines. A total of 64.5 kilometers of cross lines and 14 kilometers of base and tie bases were established on the property.

VII. PROPERTY GEOLOGY (Fig. 3)

Over 90% of the property is covered by a veneer of talus, glacial debris, and alluvium. Rock exposure is concentrated along the Pelly Mountain front above timberline and along the slope immediately west of Starr Creek. The main branch of the Tintina Fault is postulated to lie beneath talus cover at the base of the mountain front. Rocks of the front are dominantly graphitic slates, phyllites and quartzites of Ordovician and Silurian-age (OSsl). Concordant quartz lenses and veins are common here.

The area between latitude 10 to 25N and departure 124 to 140E which lies to the west of Starr Creek is one of well exposed Tertiary rhyolite. A pronounced colour anomaly of buff to rust contrasts sharply with the greys and black of the Paleozoic rocks immediately to the south. The rocks here are mostly crystal rich pyroclastics and quartz feldspar porphyritic dykes or welded ash flows. Rounded quartz eyes varying up to 1/2 cm are ubiquitous. These are commonly broken in crystal tuffs. Feldspar phenocrysts range up to 1 centimeter.

At grid location 22N, 137E olivene basalt dykes cut andesite breccia and slightly argillized quartz feldspar porphyry. This exposure is the only one in the area known to the writer which clearly shows the relative age of felsic and basic Tertiary volcanics.

The rhyolites of Starr Creek are fresh to slightly argillized. No evidence has been seen of silicification, quartz veining or sulphide mineralization. At grid location 38N, 142E vuggy rhyolite lapilli tuff carries carbonized plant fragments.

To the west of the Starr Creek rhyolite the low area of the claims is almost entirely covered. Small scattered outcrops of olivine basalt do occur at the north edge of the grid.

VIII. GEOCHEMISTRY

A total of 27 rock samples and 315 soil samples were collected on Star II. These were shipped to Min-En Laboratories, North Vancouver, B.C., for preparation and analyses as per procedures outlined in Appendix I.

Rock sample results are shown in Figure 4. Most of the rocks are from the Starr Creek rhyolite. No anomalous values of gold-silver or arsenic were detected in any of these samples. The highest gold value obtained was 16 ppb from a sample of welded rhyolite tuff. The highest silver value obtained was 1.2 ppm from a sample of calcite cemented rhyolite talus.

Sampling was attempted of B horizon soils at 50 meter stations along cross lines. Sample density was increased on the prospective Starr Creek rhyolite area. It was found that during late May and early June, much of ground is still frozen on the north aspect area west of Starr Creek. From 1290 sites located only 315 samples were collected (25%). Soils were packed in high wet strength kraft envelopes and field dried prior to shipment to Min-En Laboratories.

Soil sample results for gold, arsenic and silver are presented in Figure 4, which is a property wide 1:10,000 scale geochemical and reconnaissance geological map. No anomalous areas were detected for gold or arsenic.

The maximum gold value obtained was 55 ppb from Sta 26N80E. This relatively high value is not supported by arsenic or silver. The sample is from an area of very low sample density.

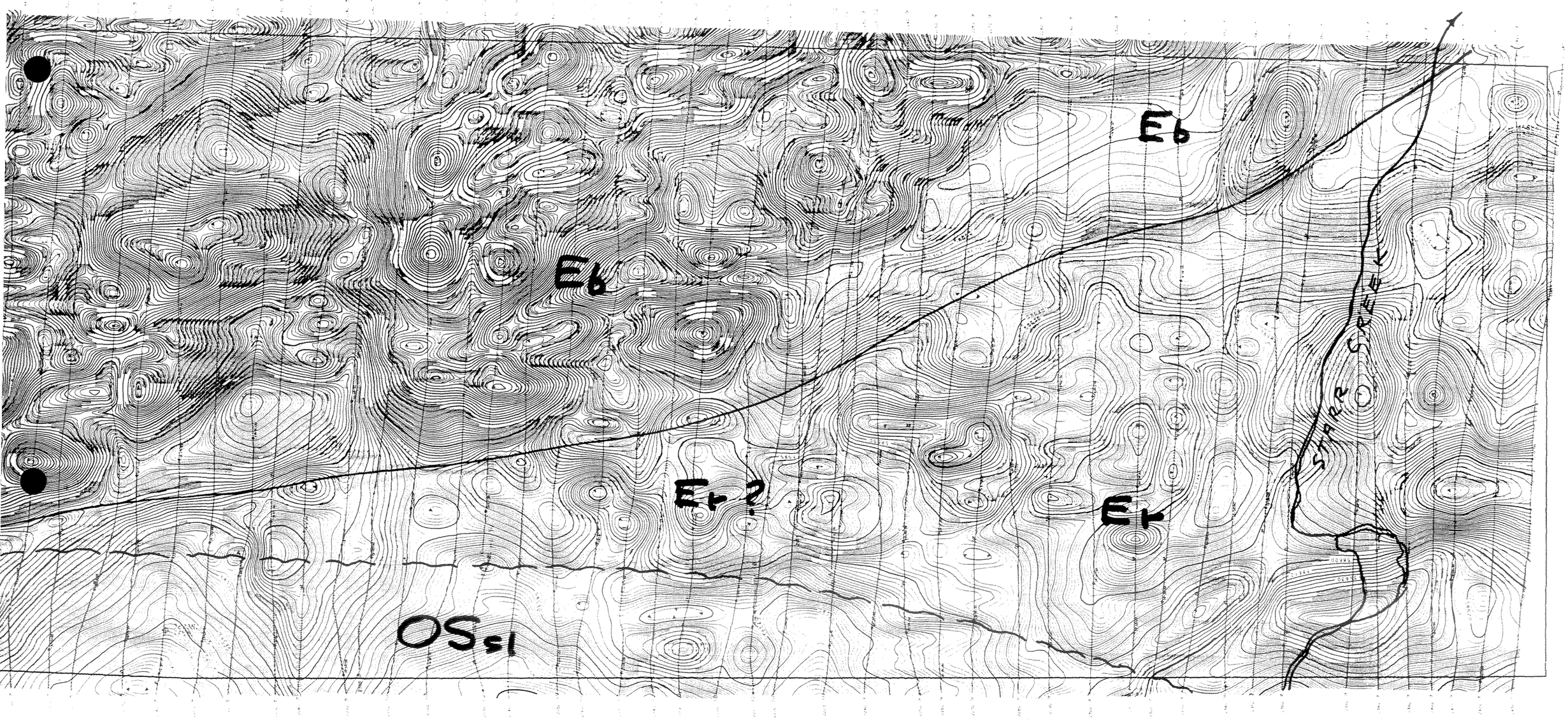
A low order silver anomaly is discernable in the vicinity of 12N128E (maximum silver 2.3 ppm). This area is underlain by Ordovician-Silurian black shales immediately above the Starr Creek rhyolite.

IX. GEOPHYSICS (see de Carle report)

The total field magnetic map (4-J8843-3) shows the northern area of the claims to be magnetically complex. This very broken magnetic terrain is at least in part underlain by Tertiary basalt. The southern edge of the basalt is interpreted as the line of abrupt smoothing of the magnetic terrain.

The Paleozoic rocks of the Pelly Mountain front have a low magnetic signature. The electromagnetic response of this area is one of numerous narrow northwest striking conductors which is consistent with a thick sequence of bedded carbonaceous and locally pyritic metasediments (Map 3-J8843-3).

Between the Paleozoic front (Tintina Fault) and the southern edge of the basalts lies an area of smooth magnetic signature and little electromagnetic response. The rhyolites along Starr Creek lie within this area. On the resistivity map (6J8843-3) these rhyolites are recognizable as a clear, positive feature. Other resistivity highs further to the west are therefore interpreted as being caused by near surface rhyolites.



Flight Path

gation and recovery using
Vola Mini-Ranger (MRS III)
r navigation system.

age terrain clearance 60m
age line spacing 200m

Magnetics

Total Field Magnetic Intensity
Contours in nT.

Cesium high sensitivity
Magnetometer.

Sensor elevation 45m

Map contours are multiples of
those listed below

10 nT
20 nT
100 nT
500 nT

Fig 5

WELCOME NORTH MINES LTD.

TOTAL FIELD MAGNETIC CONTOURS

STAR 2

YUKON TERRITORY

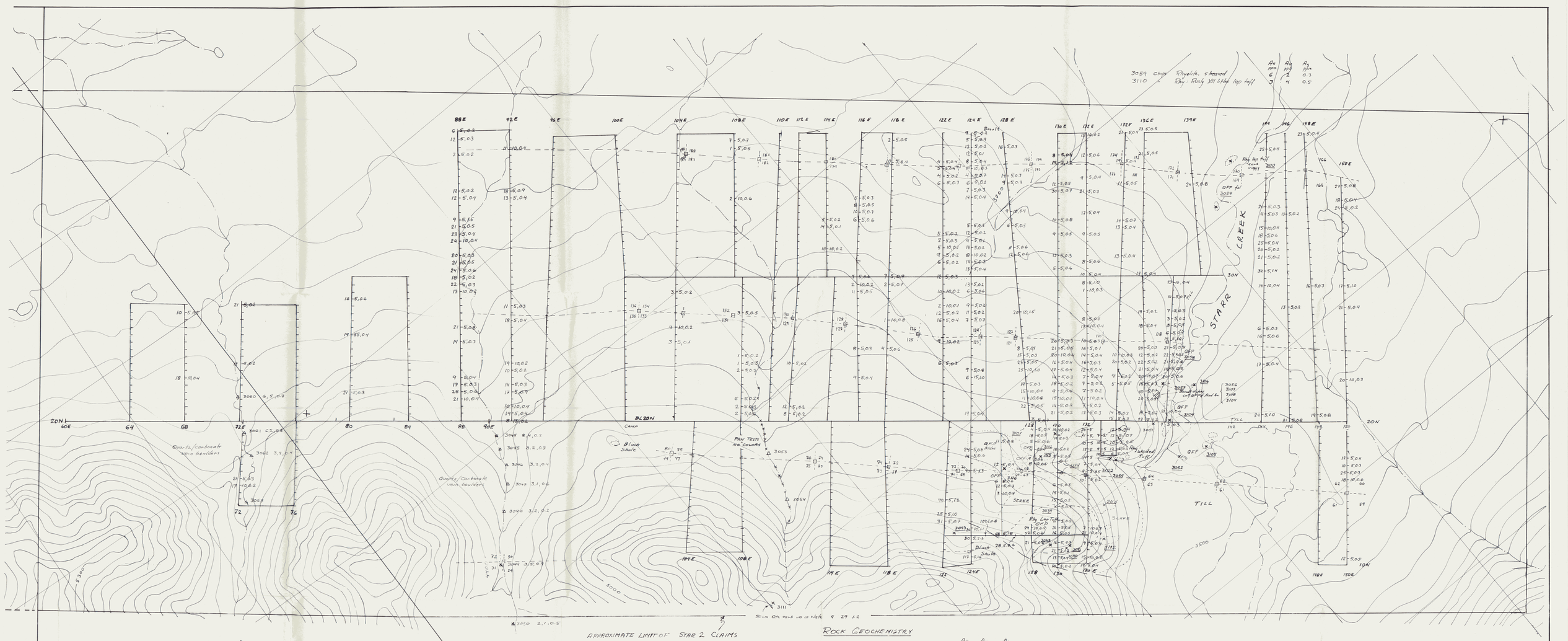
SCALE 1:10,000

AERODAT LIMITED

DATE: APRIL 1988

NTS NO: 105 F/9 - G/12

MAP NO: 4 J8843-3



LEGEND

QUATERNARY

- Qa, t, tc — Alluvium, glacial till, talus

TERTIARY

EOCENE

- Eb — Olivine basalt: dykes & flows
- Er — Rhyolite: predominantly lapilli tuffs, includes crystal tuffs, dykes. Weak to moderate argillization, no silicification or Qtz vn

ORDOVICIAN AN SILURIAN

- OSsl — Slate: black, locally calcareous. Minor sandstone and siltstone. Quartz/carbonate veins and lenses common
- × — Rock sample site
- 25 | 15, 0.6 — Soil sample site As(ppm) Au(ppb) Ag(ppm)
- △ — Stream boulder sample
- —□— — Claim line, posts

ROCK GEOCHEMISTRY

			As ppm	Au ppb	Ag ppm
3039	Grab	Rhy lap tuff, s/arg	5	2	0.6
3040	"	Rhy lap tuff, med arg.	2	3	0.4
3041	15cm chip	Rusty fault in rhyolite	4	6	0.5
3042	Grab	QTZ/carb vein float	10	2	0.6
3043	"	Qtz/carb/s/arg black in scree	7	1	0.3
3051	"	Rhy lap tuff, med arg	2	3	0.5
3052	"	Rhyolite, fe oxides	5	8	0.3
3055	"	Rhy lap tuff	5	8	0.3
3101	"	Sheared porphyritic rhyolite	4	4	0.6
3102	"	Rhy lap tuff	3	2	0.6
3103	"	Rhy porphyry	12	1	0.4
3112	"	Rhy, rusty frac, s/arg, hem stain	2	3	0.4
3113	"	Rhy, s/arg?	2	2	0.6
3114	"	Silt/fine sst rhyo clastics rhy conc	27	10	0.8
3115	"	Rhyolite s/arg?	3	3	0.2
3116	"	Rhyolite s/arg?	2	10	0.3

ROCK GEOCHEMISTRY

			As ppm	Au ppb	Ag ppm
3056	1m chip	Olivine basalt clyte cutting rhyolite	2	1	0.8
3057	"	Welded rhy tuff?	16	1	0.3
3058	"	Rhy tuff, cemented by calcite	9	3	1.2
3104	Grab	Rhy lap tuff, fe Mn Oxides	3	3	0.3
3105	"	Rhy lap tuff, s/arg?, fe Mn Oxides	3	2	0.6
3106	"	Rhy, fe oxides, med arg?	4	1	0.7
3107	"	Andesite: between basalt dykes, ch loc?	5	2	0.5
3108	"	Rhyolite: sheared rhy/sand	3	2	0.7
3109	"	Andesite dx, silicenous, no QU	5	5	0.9

Topographic base expanded from NTS 105G/12

To accompany report by R. Potter P.Eng.

FIG 4
To accompany report by R. Potter P.Eng

WELCOME NORTH MINES LTD.
15th Floor, 675 W. Hastings Street, Vancouver, B.C., Canada V6B 1N2
Facsimile (604) 687-2419 • Telephone (604) 687-1658

STAR II CLAIMS

092652

GEOLOGY & GEOCHEMISTRY

(27)

Work by : Robert Potter	N.T.S. : 105 G
Drawn by : Robert Potter	Scale : 1:10,000
Date : Sept 1988	

APPENDIX I

ANALYTICAL PROCEDURES

PHONE 980-5814

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pretreated with HNO_3 and $HClO_4$ mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 0.005 ppm (5ppb).

PHONE 980-5814

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK.

PROCEDURES FOR, Cu, Mo, Cd, Pb, Mn, Ni, Ag, Zn.

Samples are processed by Min-En Laboratories Ltd. at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers.

Copper, lead, zinc, silver, cadmium, cobalt, nickel and manganese are analysed using the CH_2H_2-Air flame combination but the molybdenum determination is carried out by C_2H_2-N_2O gas mixture directly or in-directly (depending on the sensitivity and detection limit required) on these sample solutions.

Background corrections for Pb, Ag, Cd upon request are completed.

PHONE: (604) 980-5814 or 988-4524

TELEX: 04-352828

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

Analytical Procedure Report for Assessment Work

31 Element ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories Ltd., at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer or ring mill pulverizer.

1.0 gram of the sample is digested for 4 hours with an aqua regia $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers. Reports are formatted and printed using a dot-matrix printer.

PHONE: (604) 980-5814 or 988-4524

TELEX: 04-352828

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

PROCEDURE FOR ARSENIC:

Samples are processed by Min-En Laboratories Ltd., at 705 West 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HN03 and HCl04 mixture.

After cooling samples are diluted to standard volume. A suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzit method using Ag CS_2N $(C_2H_5)_2$ as a reagent. The detection limit obtained is 1. ppm.

PHONE: (604) 980-5814 or 988-4524

TELEX: 04-352828

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

ASSESSMENT REPORT FOR:

HEAVY MINERAL SAMPLING AND CONCENTRATIONS

A large sample is collected from stream sediments or soils big enough to yield a minimum of 0.5 kg of the desired minus fraction. After sieving through any of the sieve mesh sizes they are adapted for the survey. After seiving the samples, the minus fraction is grinded to -80 mesh.

Then 0.4 kg of sample is weighed into a suitable centrifuge containers. The prepared concentrations of liquids are added to obtain a 3.1 specific gravity flotation.

The heavy fractions are then washed cleaned and dried. After drying the samples they are separated . The sink float Heavy Minerals are separated into Magnetic and Non Magnetic fractions and both fractions are weighed. The percent of the Magnetic and non Magnetic fractions are calculated and reported with the analytical data.

The analysis are than carried out in the ususal analytical manner by I.C.P. or A.A. method.

PHONE: (604) 980-5814 or 988-4524

TELEX: 04-35282

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

FIRE GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Fire Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 15.00 or 30.00 grams are fire assay preconcentrated.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 1 ppb.

APPENDIX II

ANALYTICAL CERTIFICATES

MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of GEOCHEM

Company: WELCOME NORTH MINES TINTINA
Project: ROSS RIVER 6 STAR HOOLE
Attention: J BROCK /R POTTER

File: 8-759/P1
Date: JUNE 23/88
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number		AU-FIRE PPB	AS PPM	AG PPM
3039	STAR	2	5	0.6
3040	"	3	2	0.4
3041	" HOOLE	6	4	0.5
3042	" STAR	2	10	0.6
3043	"	1	7	0.3
3044	"	4	8	0.3
3045	" HOOLE	2	3	0.7
3046	"	3	3	0.4
3047	"	1	3	0.6
3048	"	2	3	0.2
3049	"	5	3	0.9
3050	"	1	2	0.5
3051	"	3	2	0.5
3052	"	8	5	0.3
3053	"	4	5	0.4
3054	"	2	5	0.4
3055	"	2	3	0.7
3056	"	1	2	0.8
3057	"	6	16	0.3
3058	"	3	9	1.2
3059	"	2	6	0.3
3060	"	5	6	0.7
3061	"	2	6	0.5
3074	HOOLE	1	13	0.7
3075	"	1	21	2.2
3076	"	3	60	1.0
3077	"	2	18	1.1
3078	"	2	10	1.4
3079	"	1	7	1.3
3080	"	3	7	0.9

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TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: WELCOME NORTH MINES
Project: ROSS RIVER 6
Attention: J BROCK /R POTTER

File: 8-759/P2
Date: JUNE 23/88
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number		AU-FIRE PPB	AS PPM	AG PPM
3081	HOOLE	2	3	0.7
3082	"	1	8	1.7
3083	"	2	28	1.9
3101	STAR	4	4	0.6
3102	"	2	3	0.6
3103	"	1	12	0.4
3104	"	3	3	0.3
3105	"	2	3	0.6
3106	"	1	4	0.7
3107	"	2	5	0.5
3108	"	2	3	0.7
3109	"	5	5	0.9
3110	"	4	3	0.5
3122	HOOLE	2	6	0.6
3123	"	3	3	0.8
3124	"	3	3	0.3
3125	"	1	2	0.3
3126	"	1	3	0.5
3127	"	6	3	0.4
3128	"	2	2	0.3
3129	"	1	3	0.7
3130	"	3	3	0.4
3131	"	2	4	0.4
3132	"	67	3	0.3
3133	"	4	2	0.4

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PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Certificate of GEOCHEM

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 STAR
Attention:JONH BROCK

File:8-759/P1
Date:JUNE 24/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS108E 2050N	0.5	2	5
LS108E 2100N	0.3	2	5
LS108E 2150N	0.2	6	5
LS108E 2350N	0.3	2	5
LS108E 2400N	0.3	1	5
LS108E 2450N	0.2	1	5
LS108E 2750N	0.5	3	5
LS108E 3550N	0.6	2	10
LS108E 3900N	0.5	1	5
LS108E 3950N	0.7	7	5
LS116E 2300N	0.4	9	5
LS116E 2500N	0.3	8	5
LS116E 2900N	0.5	11	5
LS116E 2950N	0.2	2	10
LS116E 3000N	0.6	4	5
LS116E 3400N	0.6	6	5
LS116E 3450N	0.7	10	5
LS116E 3500N	0.5	8	5
LS116E 3550N	0.3	5	5
LS188E 2500N	0.6	4	5
LS188E 2700N	0.8	1	10
LS188E 2950N	0.7	2	5
LS188E 3000N	0.9	7	5
LS188E 3800N	0.4	10	5
LS188E 3950N	0.3	2	5
LS122E 1350	1.0	25	5
LS128E 1150N	0.6	21	5
LS128E 1250N	0.5	29	10
LS128E 1750N	0.6	9	5
LS128E 1800N	0.4	11	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 *STAR*
Attention:JONH BROCK

File:8-759/P2
Date:JUNE 24/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS128E 1900N	0.5	18	5
LS128E 2100N	0.5	22	5
LS128E 2200N	0.4	15	10
LS128E 2250N	0.3	19	5
LS128E 2400N	0.5	23	5
LS128E 2450N	0.3	15	5
LS128E 2500N	0.4	8	5
LS128E 3150N	0.6	12	5
LS128E 3200N	0.6	11	5
LS128E 3450N	0.4	9	10
LS128E 3700N	0.3	14	5
LS128E 3900N	0.3	16	5
LS134E 2050N	0.3	14	5
LS134E 2250N	0.5	5	5
LS134E 2300N	0.2	7	5
LS134E 2400N	0.2	20	5
LS134E 2450N	0.3	10	10
LS134E 3150N	0.4	13	5
LS134E 3350N	0.4	13	5
LS134E 3400N	0.7	14	5
LS134E 3650N	0.5	11	5
LS134E 3800N	0.4	19	5
LS134E 4000N	0.4	21	5
LS150E 1050N	0.5	12	5
LS150E 1600N	0.6	18	10
LS150E 1650N	0.3	25	5
LS150E 1700N	0.3	10	5
LS150E 1750N	0.4	12	5
LS150E 2300N	0.3	20	10
LS150E 2800N	0.4	21	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 STAR
Attention:JONH BROCK

File:8-759/P3
Date:JUNE 25/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS150E 2950N	1.0	17	5
LS150E 3500N	0.2	24	5
LS150E 3550N	0.4	18	5
LS150E 3650N	0.8	27	5
LS68E 2300N	0.4	18	10
LS68E 2750N	0.5	10	5
LS80E 2200N	0.3	21	5
LS80E 2600N	0.4	19	55
LS80E 2850N	0.6	16	5
LS72E 1550N	0.2	17	10
LS72E 1600N	0.3	21	5
LS72E 2400N	0.2	14	5
LS72E 2800N	0.2	21	5
LS88E 2150N	0.4	21	10
LS88E 2200N	0.6	25	5
LS88E 2250N	0.3	17	5
LS88E 2300N	0.4	9	5
LS88E 2550N	0.3	14	5
LS88E 2650N	0.8	21	5
LS88E 2900N	0.2	17	10
LS88E 2950N	0.3	22	5
LS88E 3000N	0.2	18	5
LS88E 3050N	0.6	24	5
LS88E 3100N	0.5	21	5
LS88E 3150N	0.3	20	5
LS88E 3250N	0.4	24	10
LS88E 3300N	0.4	23	5
LS88E 3350N	0.5	21	5
LS88E 3400N	1.5	9	5
LS88E 3550N	0.4	12	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 *STAR*
Attention:JONH BROCK

File:8-759/P4
Date:JUNE 24/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS88E 3600N	0.2	12	5
LS88E 3850N	0.2	7	5
LS88E 3950N	0.3	12	5
LS88E 4000N	0.2	6	5
LS104E 2550N	0.1	3	5
LS104E 2650N	0.2	4	10
LS104E 2900N	0.2	3	5
LS106E 3650N	0.2	1	5
LS139E 3650N	0.8	24	5
LS114E 3200N	0.2	10	10
LS114E 3350N	0.1	14	5
LS114E 3400N	0.2	5	5
LS146E 2000N	0.8	21	5
LS146E 2800N	0.2	13	5
LS146E 3450N	0.2	13	5
LS148E 2050N	0.8	19	5
LS148E 2950N	0.3	16	5
LS148E 4000N	0.4	23	5
LS124E 1050N	1.6	117	5
LS124E 2050N	0.4	19	5
LS124E 2750N	0.2	11	5
LS124E 2800N	0.2	9	5
LS124E 2950N	0.2	13	5
LS124E 3050N	0.4	13	5
LS124E 3100N	0.2	14	5
LS124E 3150N	0.2	8	10
LS124E 3200N	0.2	14	5
LS124E 3250N	0.1	4	5
LS124E 3300N	0.2	12	5
LS124E 3350N	0.3	5	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 STAR
Attention:JONH BROCK

File:8-759/PS
Date:JUNE 24/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS124E 3550N	0.4	14	5
LS124E 3600N	0.3	7	5
LS124E 3650N	0.2	6	5
LS124E 3700N	0.7	4	5
LS124E 3750N	0.3	10	10
LS124E 3800N	0.4	8	5
LS124E 3850N	0.1	12	5
LS124E 3900N	0.2	12	5
LS124E 4000N	0.2	9	5
LS122E 2400N	0.3	6	5
LS122E 2550N	0.2	9	10
LS122E 2700N	0.4	16	5
LS122E 2750N	0.2	12	5
LS122E 2800N	0.1	2	10
LS122E 2900N	0.2	10	10
LS122E 3000N	0.3	12	5
LS122E 3100N	0.2	6	5
LS122E 3150N	0.2	9	5
LS122E 3200N	0.1	5	10
LS122E 3250N	0.3	7	5
LS122E 3300N	0.2	5	5
LS122E 3650N	0.3	6	5
LS122E 3700N	0.2	4	5
LS122E 3750N	0.4	5	5
LS122E 3800N	0.4	4	5
LS130E 1000N	0.2	10	5
LS130E 1050N	0.4	13	5
LS130E 1100N	1.2	21	5
LS130E 1150N	0.7	16	5
LS130E 1200N	0.5	16	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 STAR
Attention:JONH BROCK

File:8-759/P6
Date:JUNE 25/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS130E 1250N	0.5	26	5
LS130E 1300N	0.4	32	5
LS130E 1450N	0.2	15	5
LS130E 1500N	0.1	15	5
LS130E 1800N	0.2	18	5
LS130E 1950N	0.2	16	10
LS125E 12N	0.8	109	5
LS127E 12N	0.6	28	5
LS128E 12	0.2	32	5
LS129E 12N	0.5	32	5
LS130E 19N	0.3	19	5
LS130+50E 1200N	0.2	16	5
LS131E 12N	0.3	21	5
LS131+50E 12N	0.2	17	5
LS132E 12N	0.4	21	10
LS133+50E 1750N	0.2	20	5
LS133E 1350N	0.2	22	5
LS133E 1750N	0.3	19	5
LS133E 1800N	0.3	9	5
LS133E 1850N	0.4	10	5
LS133E 1900N	0.3	7	5
LS134E 1750N	0.4	6	5
LS134E 2000N	0.3	15	5
LS132E 1000N	0.4	19	5
LS132E 1050N	0.5	15	10
LS132E 1200N	0.4	19	15
LS132E 1600N	0.2	10	5
LS132E 1750N	0.3	11	5
LS132E 1800N	0.4	15	5
LS132E 1850N	0.2	10	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 STAR
Attention:JONH BROCK

File:8-759/P7
Date:JUNE 24/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS132E 1900N	0.4	11	5
LS132E 1950N	0.5	20	5
LS132E 2000N	0.4	18	5
LS132E 2050N	0.3	17	5
LS132E 2100N	0.2	7	5
LS132E 2150N	0.4	11	10
LS132E 2200N	0.2	7	5
LS132E 2250N	0.2	7	5
LS132E 2300N	0.4	7	5
LS132E 2400N	0.3	16	5
LS132E 2450N	0.4	14	5
LS132E 2500N	0.1	16	5
LS132E 2550N	0.3	16	5
LS132E 2650N	0.4	17	10
LS132E 3000N	0.4	10	5
LS132E 3600N	0.3	21	5
LS132E 4000N	0.2	15	10
LS130E 2050N	0.2	21	5
LS130E 2100N	0.2	14	5
LS130E 2150N	0.1	15	10
LS130E 2200N	0.4	9	5
LS130E 2250N	0.2	18	5
LS130E 2300N	0.3	14	5
LS130E 2350N	0.4	17	5
LS130E 2400N	0.4	16	5
LS130E 2450N	0.4	20	10
LS130E 2500N	0.5	21	5
LS130E 2550N	0.3	26	5
LS130E 3150N	0.3	13	5
LS136E 2000N	0.2	23	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6 STAR
Attention:JONH BROCK

File:8-759/P8
Date:JUNE 25/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LS136E 2050N	0.2	14	5
LS136E 2150N	0.5	20	5
LS136E 2200N	0.2	10	5
LS136E 2250N	0.3	15	5
LS136E 2300N	0.7	20	10
LS136E 2350N	0.4	21	5
LS136E 2400N	0.2	22	5
LS136E 2450N	0.2	12	5
LS136E 2500N	0.3	20	5
LS136E 2650N	0.4	18	5
LS136E 2800N	0.2	19	5
LS136E 3000N	0.4	19	5
LS136E 3850N	0.5	21	5
LS136E 4000N	0.5	23	5
LS138E 2000N	0.3	7	5
LS138E 2050N	0.4	21	10
LS138E 2300N	0.6	20	5
LS138E 2350N	0.5	14	5
LS138E 2400N	0.6	21	5
LS138E 2450N	0.5	22	5
LS138E 2500N	0.4	21	5
LS138E 2550N	1.0	14	5
LS138E 2600N	0.4	6	5
LS138E 2650N	0.5	8	5
LS138E 2700N	0.2	3	5
LS138E 2750N	0.3	7	5
LS138E 2850N	0.7	14	5
LS138E 2950N	0.4	23	10
LS144E 2050N	1.0	24	5
LS144E 2500N	0.4	17	5

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PHONE: (604)980-5814 OR (604)988-4524 TELEX: VIA USA 7601067 UC

Certificate of Geochem

Company: WELCOME NORTH MINES
Project: ROSS RIVER 6 STAR/HOOLE
Attention: JONH BROCK

File: 8-759/P9
Date: JUNE 25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number		AG PPM	AS PPM	AU-WET PPB
LS144E 2600N		0.6	16	5
LS144E 2650N		0.3	6	5
LS144E 2950N		0.4	14	10
LS144E 3050N		1.4	32	5
LS144E 3150N		0.2	21	5
LS144E 3200N		0.2	26	5
LS144E 3250N		0.4	25	5
LS144E 3300N		0.6	18	5
LS144E 3350N		0.4	15	10
LS144E 3450N		0.3	14	5
LS144E 3500N		0.3	20	5
LS144E 3900N		0.4	25	5
LS112E 2050N	STAR	0.2	8	5
LS112E 2100N		0.2	12	5
LS112E 3400N		0.2	10	5
LS92E BL2000N		0.2	8	15
LS92E 2050N		0.4	19	5
LS92E 2100N		0.4	10	10
LS92E 2200N		0.9	17	5
LS92E 2250N		0.3	14	5
LS92E 2350N		0.2	10	5
LS92E 2400N		0.2	19	10
LS92E 2700N		0.4	18	5
LS92E 2800N		0.3	11	5
LS92E 3550N		0.4	13	5
LS92E 3600N		0.9	18	5
LS92E 3900N		0.4	11	10
LH48E 0050N		0.4	17	5
LH48E 0100N	HOOLE	0.2	23	5
LH48E 0150N		0.5	18	5

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Certificate of Geochem

Company:WELCOME NORTH MINES
Project:ROSS RIVER 6) STAR II
Attention:JONH BROCK

File:8-759/P15
Date:JUNE 25/88
Type:SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-WET PPB
LH72E 2550N } HOOLE	0.5	18	5
LH72E 2550N DUP } HOOLE	0.6	30	10
LS134E 1800N	0.4	12	5
LS134E 1850N	0.5	18	5
LS134E 1900N } STAR	0.7	17	5
LS134E 1950N } STAR	0.4	12	5
H44E 1050 } HOOLE	0.2	15	10
BL3ON 6800E } HOOLE	0.4	22	5

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PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 U

Certificate of GEOCHEM

Company:WELCOME NORTH MINES
Project:RR-6-S
Attention:J.BROCK

File:8-761/P1
Date:JUNE 23/88
Type:ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AS PPM	AU-FIRE PPB
3111 STAR	1.2	4	29
3112 "	0.4	2	3
3113 "	0.6	2	2
3115 "	0.2	3	3
3116 "	0.3	2	10
3062	0.4	3	4

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CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

JUL 12 1988

Certificate of GEOCHEM

Company: WELCOME NORTH MINES
Project: RR 6 STAR
Attention: J.BROCK/R.POTTER

File: 8-832/P1
Date: JULY 6/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-WET PPB	AG PPM	AS PPM
L122E 1300N	5	.7	31
L122E 1450N	5	1.2	40
L124E 1200N	5	2.3	30
L124E 1250N	10	1.1	26
L124E 1650N	5	1.3	40
L124E 1750N	5	.6	14
L124E 1800N	5	.9	24
L124E 2300N	15	1.0	6
L124E 2350N	5	.8	9
L124E 2700N	5	.7	7
L124E 2900N	5	.6	6
L124E 3950N	5	.9	5
L126E 1200N	5	1.8	68
L126E 1500N	10	.4	3
L126E 1550N	5	.7	12
L126E 1600N	5	.8	6
L126E 1700N	5	.9	12
L126E 1850N	5	.8	11
L128E 1200N	5	.7	12
L128E 1700N	10	.6	8
L128E 1850N	5	.6	5
L128E 1950N	5	.4	4
L128E 2000N	5	.7	8
L128E 2150N	10	.8	11
L128E 2350N	10	1.0	25
L128E 2750N	10	1.5	20
L128E 3200N	5	.9	13
L128E 3350N	5	.5	6
L128E 3450N	10	.4	6
L128E 3650N	5	.9	9

Certified by _____

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: WELCOME NORTH MINES
Project: RR 6 S
Attention: J.BROCK/R.POTTER

File: 8-832/P2
Date: JULY 7/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-WET PPB	AG PPM	AS PPM
L130E 1200N	5	0.6	8
L130E 1400N	5	0.4	11
L130E 1450N	10	0.6	11
L130E 1500N	10	0.2	9
L130E 1550N	5	0.3	6
L130E 1750N	5	0.5	7
L130E 1900N	5	0.6	15
L130E 3050N	5	0.6	5
L130E 3150N	5	0.4	10
L130E 3300N	5	0.5	9
L130E 3400N	5	0.8	10
L130E 3600N	5	0.7	30
L130E 3650N	5	0.5	12
L130E 3800N	5	1.2	15
L130E 3850N	5	0.4	8
L132E 1200N	5	0.5	13
L132E 1250N	10	0.3	7
L132E 1650N	5	0.5	4
L132E 1700N	5	0.4	7
L132E 2350N	5	0.4	12
L132E 2700N	5	0.9	8
L132E 2900N	10	0.3	1
L132E 2950N	5	1.0	8
L132E 3100N	5	0.6	8
L132E 3300N	5	0.5	9
L132E 3450N	5	0.9	17
L132E 3600N	5	0.4	11
L132E 3700N	5	0.4	9
L132E 3850N	5	0.6	12

Certified by _____

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APPENDIX III

SUMMARY OF EXPENDITURES

STAR II

1988 STATEMENT OF COSTS

		$
Salaries and Wages		7,515
Geological Consulting		900
Camp Costs - 88 man days @ $40/day		3,520
Field Supplies - flagging, thread, sample bags, etc.		638
Mobilization		800
Vehicle		763
Helicopter - 5.8 hr. @ $475/hr.	2,755	
- fuel 580 litres @ $0.63/litre	365	3,120
Geophysics - Airborne (Aerodat) 160/756 x 55,500		11,746
Analyses - Min-En Laboratories		
- Soils - 315 (Au/Ag/As) samples @ $12.00 ea.	3,780.00	
- Silts - 10 (Au/Ag/As) " $12.00 ea.	120.00	
- Rocks - 27 (Au/Ag/As) " $16.50 ea.	445.50	4,345
Project Management - Planning, field management, reporting		2,320
Total:		35,667

APPENDIX IV

ENGINEER'S CERTIFICATE

I, Robert G. Potter of 150 Andrew Place, Fulford Harbour, in the Province of British Columbia, Canada, DO HEREBY CERTIFY that:

1. I am a consulting Geological Engineer.

2. I am a graduate of the University of British Columbia (B.A.Sc. 1961) and of McGill University (M.Sc. Applied 1972).

3. I am a member in good standing of the Association of Professional Engineers of British Columbia.

4. This report is based on the results of work carried on under my direct supervision and on available published data.

5. I have no interest in the Star II property or in other properties or securities of Welcome North Mines Ltd. nor do I expect to receive any.

Dated at Vancouver, British Columbia this 9th day of December, 1988.

Robert G. Potter, P.Eng.

APPENDIX V

REFERENCES

Archer Cathro and Associates: Northern Cordilleran Mineral Inventory.

Boyle, R.W., 1979: The Geochemistry of Gold and Its Deposits. G.S.C. Bull. 280.

Buisson, G., and LeBlanc, M., 1986: Gold-bearing Listwaenites (carbonatized ultramafic rocks) in Ophiolite Complexes, in Metallogeny of basic and ultrabasic rocks: London Institute Mining Metallurgy, p. 121-132.

Duke, J.L., and Godwin, C.I., 1986: Geology and Alteration of the Grew epithermal gold-silver prospect, south-central Yukon, in Yukon Geology Vol. I, D.I.A.N.D.

Fisher, R.V., and Schmincke, H., 1984: Pyroclastic Rocks: Springer - Verlag.

Jackson, L.E., et al 1986: Bimodal Paleogene Volcanics near Tintina Fault, East-central Yukon and Their Possible Relationship to Placer Gold, in Yukon Geology Vol. I, D.I.A.N.D.

Templeman-Kluit, D., et al, 1977: Compilation of the Geology of Quiet Lake (105F) and Finlayson Lake (105G). G.S.C. Open File 486.

APPENDIX VI

LIST OF PERSONNEL

(STAR II PROPERTY)

Ron Etzel (Soil Sampler), General Delivery, Ross River, Yukon
Period Worked: May 29 to 31, 1988
June 1 to 9, 1988

Jeff Franke (Soil Sampler), 320-192 Street, Surrey, B.C.
Period Worked: May 28 to 31, 1988
June 1 to 9, 1988

Don Lang (Soil Sampler), 91 Machleary Street, Nanaimo, B.C.
Period Worked: May 28, 1988
June 4 to 9, 1988

Naomi Potter (Cook), R.R. 1, Fulford Harbour, B.C.
Period Worked: May 29 to 31, 1988
June 1 to 9, 1988

Robert Potter (Geologist & Proj. Mgr.), R.R. 1, Fulford Harbour, B.C. Period Worked: June 1, 2, 5, and 8, 1988

Jack Speed (Soil Sampler), Box 1033, Ganges, B.C.
Period Worked: May 29 to 31, 1988
June 1 to 9, 1988

Bruce Williams (Prospector), R.R. 1, Fulford Harbour, B.C.
Period Worked: May 29 to 31, 1988
June 1 to 9, 1988