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CONFIDENTIAL X
OPEN FILE

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MINING DISTRICT: WHITEHORSE
TYPE OF WORK: GEOCHEM, GEOLOGY
GEOPHYSICS

REPORT FILED UNDER: EASTFIELD RESOURCES

DATE PERFORMED: JUNE 15-AUGUST 30, 1993 DATE FILED: DEC 30, 1993

LOCATION: LAT.: 62°44'N AREA: CASINO AREA

LONG.: 138°58'W VALUE \$: 36,000

CLAIM NAME & NO.: KOFFEE 1-58 (YB27482-539), ICE 1-2 (YB37801-802), ICE 9-12 (YB37809-812), ICE 23-28 (YB37825-828), ICE 41-44 (YB37841-37844)

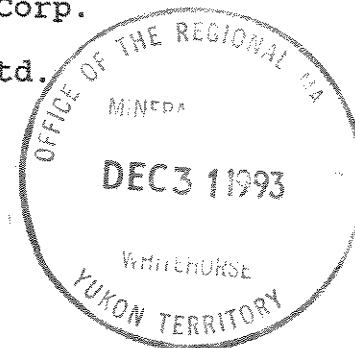
WORK DONE BY: J. CHAPMAN, G.L. GARRATT MINCORD EXPLORATION CONSULTANTS LTD.

WORK DONE FOR: EASTFIELD RESOURCES AND ROCKWEALTH INTERNATIONAL

DATE TO GOOD STANDING:

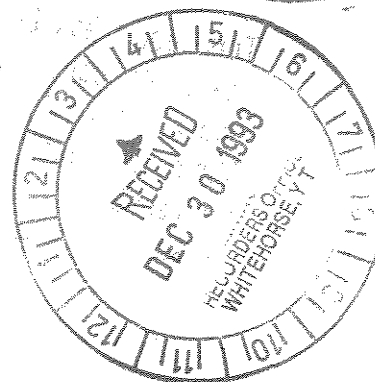
REMARKS: 450 soil samples collected on east side of road

Geological, Geochemical, Geophysical
Report
on the KOFFEE Claims
for
Eastfield Resources Ltd.
and
Rockwealth International Resources Corp.
by
Mincord Exploration Consultants Ltd.



Dawson Range, Yukon Territory
NTS: 115J/10
Latitude: 62° 44' N
Longitude: 138° 58' W

093143



October, 1993
Work Undertaken: June 15-August 30, 1993

J. Chapman, P.Geo.
G. L. Garratt, P.Geo.

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SUMMARY

The Koffee property, is owned by Eastfield Resources Ltd. Rockwealth International Resources Corp. has an option to acquire an undivided 50% interest. The property consists of 72 contiguous claims within the Whitehorse Mining District, Yukon Territory. The project area lies approximately 340 kilometers northwest of Whitehorse and 160 kilometers south of Dawson City. Fixed wing access is available from these centres to the Casino airstrip, located 7 kilometers east of the Koffee project. A four wheel drive access road now connects the Koffee property with the airstrip.

The Koffee project area lies 4 kilometers to the west of the Casino property which hosts a copper-gold-molybdenum porphyry deposit currently being evaluated by Pacific Sentinel Gold Corp. Upper Cretaceous intrusives of the Casino complex, which host the Casino deposit, have been located on the Koffee property as part of a probably continuous belt extending west from Casino.

A field program consisting of road building, geological mapping, geochemical soil and rock sampling along with a ground magnetic and IP survey was initiated in mid June of this year. Results of this work were used to identify drill targets.

Results of the surface surveys outlined a large open ended multi-element soil geochemical anomaly covering an area of 2.0 kilometers in an east west direction by 1 kilometer in width. This anomaly is coincident with a magnetic high and a chargeability anomaly of ≥ 15 mV/V. On the basis of these results, further work is both warranted and recommended.

INTRODUCTION

This report presents the results of the 1993 exploration program on the Koffee claims, Whitehorse Mining Division, Yukon Territory, and makes recommendations for further work.

Field work was carried out from mid June through early September by an eight man crew camped on the property. A D-8 cat and operator were contracted to build an access road from the Casino airstrip to the camp location. This was to reduce dependence upon expensive air transportation for supplies and facilitate mobilizing the drill equipment. Ground geochemical and geophysical surveys and geologic mapping took place through June and July.

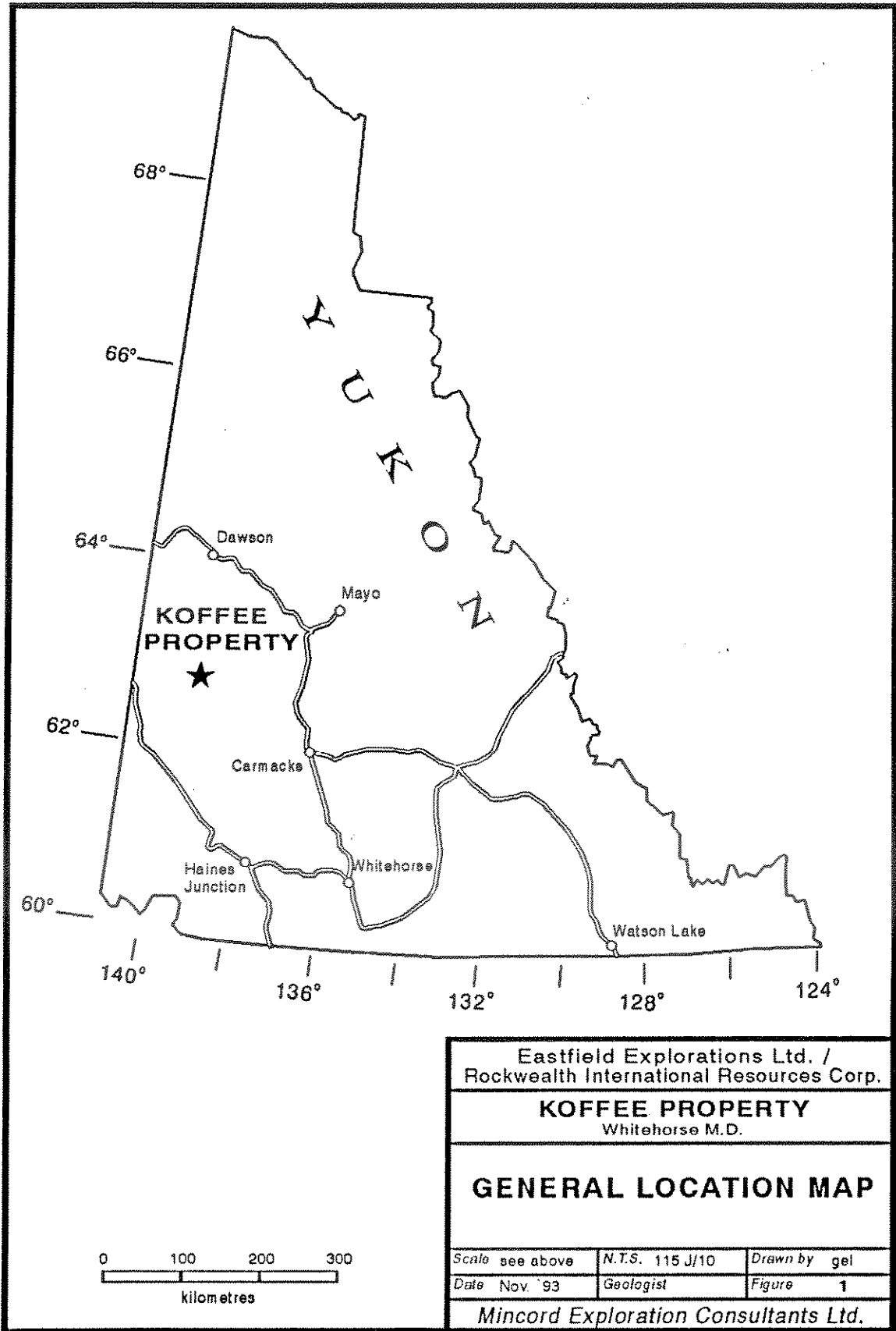
The exploration target is a copper-gold-molybdenum porphyry similar to the Casino deposit. At Casino, the mineralization is hosted by Upper Cretaceous quartz monzonite and Patton Porphyry intrusives and related breccias of the Casino complex, which invade the Cretaceous Dawson Range Batholith and earlier Proterozoic-Paleozoic Yukon Metamorphic Complex rocks along a linear east west trending belt. This trend is projected to cross the centre of the Koffee property.

LOCATION, ACCESS AND PHYSIOGRAPHY

The Koffee property is located within the Dawson Range, in the west central portion of the Yukon Territory, figure 1. It lies approximately 340 kilometers northwest of Whitehorse and 160 kilometers south of Dawson City on NTS map sheet 115J/10 centred at latitude 62° 44'N and Longitude 138° 58'W.

Access to the project area is possible by fixed wing aircraft from Whitehorse, Carmacks or Dawson City to the Casino airstrip approximately 7 kilometers east of the property. A 4-wheel drive road constructed during the 1993 field program connects the airstrip with the Koffee property. The majority of the claims lie above tree line and are predominantly moss covered, which makes large areas of the property accessible to 4-wheel drive ATV's.

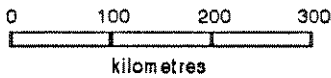
The project is located within the Dawson Range physiographic province. This unglaciated terrain consists of a northwest trending dissected plateau of dominantly low rounded hills with



Eastfield Explorations Ltd. /
Rockwealth International Resources Corp.

KOFFEE PROPERTY
Whitehorse M.D.

GENERAL LOCATION MAP



Scale see above	N.T.S. 115 J/10	Drawn by gel
Date Nov. '93	Geologist	Figure 1

Mincord Exploration Consultants Ltd.

an average relief of approximately 300 meters. Vegetation consists of sparse isolated stands of trees in the valleys with mostly moss and low buck brush on the upper slopes. The majority of the claims lie above the 1,300 meter tree line.

Elevations on the Koffee property range from 900 meters at the western edge to 1,650 meters on the eastern ridges. Drainages on the Koffee property flow westward.

PROPERTY STATUS

The Koffee property consists of 72 contiguous mineral claims in the Whitehorse Mining District, figure 2. The claims are registered in the name of and are beneficially owned 100% by Eastfield Resources Ltd. Rockwealth International Resources Corp. has an option to earn a 50% interest in the subject claims through work commitments and option payments.

Pertinent claim data is as follows:

<u>Claim Names</u>	<u>Tag Numbers</u>	<u>Expiry Dates</u> *
Koffee 1-58	YB27482 - YB37539	Sept 21, 1998
Ice 1-2	YB37801 - YB37802	Jan 27, 1999
Ice 9-12	YB37809 - YB37812	Jan 27, 1999
Ice 25-28	YB37825 - YB37828	Jan 27, 1999
Ice 41-44	YB37841 - YB27844	Jan 27, 1999

*Based on acceptance of the 1993 work.

The total area covered by the claims is 1,507 hectares, or 3,725 acres.

The writer is not aware of any particular environmental, political, or regulatory problems that would adversely affect mineral exploration and development on the Koffee property.

HISTORY AND PREVIOUS WORK

The Klondike gold rush of 1898 prompted the first prospecting in the area leading to the "Discovery" gold placer claim on Canadian Creek, 4.5 kilometers east of the subject claims, in 1911. From

139°00'

138°55'



74 YB 37874	73 YB 37873	72 YB 37872	71 YB 37871	70 YB 37870	69 YB 37869															
68 YB 37868	66 YB 37866	64 YB 37864	62 YB 37862	60 YB 37860	58 YB 37858															
67 YB 37867	65 YB 37865	63 YB 37863	61 YB 37861	59 YB 37859	57 YB 37857															
56 YB 37856	54 YB 37854	52 YB 37852	50 YB 37850	48 YB 37848	46 YB 37846	44 YB 37844	42 YB 37842	58 YB 37858	56 YB 37856	54 YB 37854	52 YB 37852	50 YB 37850	48 YB 37848	46 YB 37846	44 YB 37844	10 YB 37844	8 YB 37842	6 YB 37840	4 YB 37838	2 YB 37836
55 YB 37855	53 YB 37853	51 YB 37851	49 YB 37849	47 YB 37847	45 YB 37845	43 YB 37843	41 YB 37841	57 YB 37857	55 YB 37855	53 YB 37853	51 YB 37851	49 YB 37849	47 YB 37847	45 YB 37845	43 YB 37843	9 YB 37843	7 YB 37841	5 YB 37839	3 YB 37837	1 YB 37835
40 YB 37840	38 YB 37838	36 YB 37836	34 YB 37834	32 YB 37832	30 YB 37830	28 YB 37828	26 YB 37826	42 YB 37842	40 YB 37840	38 YB 37838	36 YB 37836	34 YB 37834	32 YB 37832	30 YB 37830	26 YB 37826	24 YB 37824	22 YB 37822	20 YB 37820	18 YB 37818	16 YB 37816
39 YB 37839	37 YB 37837	35 YB 37835	33 YB 37833	31 YB 37831	29 YB 37829	27 YB 37827	25 YB 37825	41 YB 37841	39 YB 37839	37 YB 37837	35 YB 37835	33 YB 37833	31 YB 37831	29 YB 37829	25 YB 37825	23 YB 37823	21 YB 37821	19 YB 37819	17 YB 37817	15 YB 37815
24 YB 37824	22 YB 37822	20 YB 37820	18 YB 37818	16 YB 37816	14 YB 37814	12 YB 37812	10 YB 37810	28 YB 37828	26 YB 37826	24 YB 37824	22 YB 37822	20 YB 37820	18 YB 37818	16 YB 37816	40 YB 37840	38 YB 37838	36 YB 37836	34 YB 37834	32 YB 37832	30 YB 37830
23 YB 37823	21 YB 37821	19 YB 37819	17 YB 37817	15 YB 37815	13 YB 37813	11 YB 37811	9 YB 37809	27 YB 37827	25 YB 37825	23 YB 37823	21 YB 37821	19 YB 37819	17 YB 37817	15 YB 37815	39 YB 37839	37 YB 37837	35 YB 37835	33 YB 37833	31 YB 37831	29 YB 37829
8 YB 37808	7 YB 37807	6 YB 37806	5 YB 37805	4 YB 37804	3 YB 37803	2 YB 37802	1 YB 37801	14 YB 37814	12 YB 37812	10 YB 37810	8 YB 37808	6 YB 37806	4 YB 37804	2 YB 37802	54 YB 37854	52 YB 37852	50 YB 37850	48 YB 37848	46 YB 37846	44 YB 37844
56 YB 37800	55 YB 37799	54 YB 37798	53 YB 37797	52 YB 37796	51 YB 37795	50 YB 37794	49 YB 37793	13 YB 37813	11 YB 37811	9 YB 37809	7 YB 37807	5 YB 37805	3 YB 37803	1 YB 37801	53 YB 37853	51 YB 37851	49 YB 37849	47 YB 37847	45 YB 37845	43 YB 37843
48 YB 37792	46 YB 37790	44 YB 37788	42 YB 37786	40 YB 37784	38 YB 37782	36 YB 37780	34 YB 37778	40 YB 37820	38 YB 37818	36 YB 37816	34 YB 37814	32 YB 37812	1 YB 37801	3 YB 37803	5 YB 37805	7 YB 37807	9 YB 37809	11 YB 37811	13 YB 37813	15 YB 37815
47 YB 37791	45 YB 37789	43 YB 37787	41 YB 37785	39 YB 37783	37 YB 37781	35 YB 37779	33 YB 37777	39 YB 37839	37 YB 37837	35 YB 37835	33 YB 37833	31 YB 37831	2 YB 37802	4 YB 37804	6 YB 37806	8 YB 37808	10 YB 37810	12 YB 37812	14 YB 37814	16 YB 37816
32 YB 37776	30 YB 37774	28 YB 37772	26 YB 37770	24 YB 37768	22 YB 37766	20 YB 37764	18 YB 37762	30 YB 37830	28 YB 37828	26 YB 37826	24 YB 37824	22 YB 37822	17 YB 37817	19 YB 37819	21 YB 37821	23 YB 37823	25 YB 37825	27 YB 37827	29 YB 37829	31 YB 37831
31 YB 37775	29 YB 37773	27 YB 37771	25 YB 37769	23 YB 37767	21 YB 37765	19 YB 37763	17 YB 37761	29 YB 37829	27 YB 37827	25 YB 37825	23 YB 37823	21 YB 37821	18 YB 37818	20 YB 37820	22 YB 37822	24 YB 37824	26 YB 37826	28 YB 37828	30 YB 37830	32 YB 37832
16 YB 37760	14 YB 37758	12 YB 37756	10 YB 37754	8 YB 37752	6 YB 37750	4 YB 37748	2 YB 37746	20 YB 37820	18 YB 37818	16 YB 37816	14 YB 37814	12 YB 37812	33 YB 37833	35 YB 37835	37 YB 37837	39 YB 37839	41 YB 37841	43 YB 37843	45 YB 37845	47 YB 37847
15 YB 37759	13 YB 37757	11 YB 37755	9 YB 37753	7 YB 37751	5 YB 37749	3 YB 37747	1 YB 37745	19 YB 37819	17 YB 37817	15 YB 37815	13 YB 37813	11 YB 37811	34 YB 37834	36 YB 37836	38 YB 37838	40 YB 37840	42 YB 37842	44 YB 37844	46 YB 37846	48 YB 37848
						INCA CLAIMS		10 YB 37601	8 YB 37599	6 YB 37597	4 YB 37595	2 YB 37593	45 YB 37591	47 YB 37589	49 YB 37587	51 YB 37585				
								9 YB 37600	7 YB 37598	5 YB 37596	3 YB 37594	1 YB 37592	46 YB 37590	48 YB 37588	50 YB 37586	52 YB 37584				
								MAYA CLAIMS				AZTEC CLAIMS								

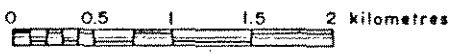
KOFFEE PROJECT

Coffee Creek (North Fork)

Coffee Creek (South Fork)

Aztec Creek CASINO PROPERTY

62°41'



Eastfield Resources Ltd.		
Rockwealth International Resources Corp.		
KOFFEE PROJECT		
Whitehorse M.D., Yukon		
<h1>Claim Map</h1>		
Scale	Date	Figure
1:50000	Nov. 1993	2
Mincord Exploration Consultants Ltd.		

the 1930's to the 1960's, the area was actively explored for placer gold, silver-lead-zinc veins, and tungsten.

The porphyry potential of the region was recognized in 1967 with the discovery of the Casino mineralization, 1.5 kilometers southeast of the Canadian Creek placers.

Mineral occurrences in the area include:

CASINO DEPOSIT (see Figure 3)

This porphyry copper-gold-molybdenum deposit is hosted by the Upper Cretaceous Casino Complex consisting of quartz monzonite, feldspar porphyry and quartz/feldspar porphyry intrusives with related breccia pipes and dykes. A concentrically zoned hydrothermal alteration system is evident with a potassic core surrounded by phyllic, argillic and propylitic facies. Mineralization consisting primarily of chalcocite, chalcopyrite, pyrite and molybdenite occurs as disseminations and fracture fillings primarily in the outer regions of the potassic alteration zone.

Due to the unglaciated nature of the area and deep weathering, the deposit shows the leached cap, supergene enriched zone and hypogene mineralization typical of Arizona style porphyry deposits. Within the leached cap descending ground waters have remobilized the copper mineralization while the less mobile gold remained. This leached zone can be in excess of 170 meters thick. Underlying the leached cap the supergene zone forms an enriched blanket mineralized primarily with the copper sulphide chalcocite. Locally, the supergene zone is over 150 meters in thickness.

The lowermost hypogene zone contains pyrite, magnetite, chalcopyrite and molybdenite to depths of at least 750 meters with most holes ending in this mineralization.

To date, over 200 holes have been drilled to outline the deposit which has delineated a southern edge, however, the deposit remains open to the north, east and west. Preliminary reserve estimates published by Pacific Sentinel Gold Corp. indicate a high grade starter pit at the east end of the deposit which contains the following;

Starter Pit - Area Preliminary Reserve Estimate

	<u>Tonnes</u> <u>(Millions)</u>	<u>Cu</u> <u>%</u>	<u>Mo/S₂</u> <u>%</u>	<u>Au</u> <u>oz/ton</u>
Leached Cap	27	0.10	0.05	0.021
Supergene and Hypogene	99	0.40	0.05	0.014

A ten million dollar drilling program initiated in 1993 is expected to be completed by November of this year.

IDAHO CREEK

The Idaho Creek property, approximately 23 kilometers east of the Koffee project, consists of manganiferous gold bearing quartz veins within the granodiorite of the Dawson Range batholith. These veins contain pyrite, arsenopyrite, galena and sphalerite.

COCKFIELD (25 Kilometers to the southeast)

Hosted by intermediate volcanics of the Mt. Nansen suite and the Mt. Cockfield stock (believed to be Casino equivalent). Mineralization associated with the altered stock consists of disseminations and veinlets of pyrite, chalcopryrite, and molybdenite.

CASH (75 kilometers to the east-southeast)

A porphyry/vein/skarn prospect hosted by Mt. Nansen porphyry dykes and plugs, Yukon Metamorphic complex and Big Creek monzonite. Chip samples from trenches are reported to contain

anomalous gold (79 to 253 ppb), copper (110 to 2300 ppm), and molybdenum (21 to 131 ppm).

MT. NANSEN (100 kilometers to the southeast)

An Arizona-style porphyry system hosted by a Tertiary porphyry complex intruding older quartz monzonite and quartz diorite. Maximum copper grades encountered during 1970's drilling were reported in the 0.5% to 0.6% range.

ANA PROPERTY

This claim block, which lies between the Koffee property and the Casino deposit, contains many of the same features as at Casino. The Casino Complex intrusives form an east-west trending band through the Ana property on to the Koffee claims. Extensive soil copper-gold geochemical anomalies have been outlined following the trend of Casino intrusives. Limited drilling has confirmed the presence of buried Casino Complex rocks along with sub-economic porphyry style copper-gold mineralization.

Previous Work - Koffee Claims

1969, 1970:

Archer Cathro conducted a limited soil sampling program on the Zappa 1-8 claims in the headwaters of Coffee Creek which returned moderately anomalous copper and molybdenum results.

1970:

Trans-Columbia Explorations Ltd. performed a soil geochemical survey over a large area west of the Casino deposit. part of this survey included sampling over 60% of what is now the Koffee property. Samples were analyzed for copper and molybdenum and outlined a strong copper-molybdenum anomaly in the headwaters of Coffee Creek within the east central portion of the current claim block. This was coincident with the previously located Archer Cathro anomaly.

1973 and 1987:

Regional mapping was done by Tempelman-Kluit (1973) and Payne et al (1987).

1981:

Archer Cathro carried out some infill geochemical sampling over the previously located anomalies and additional mapping. They concluded that the source of the copper and molybdenum anomalies was related to buried Casino Complex intrusives.

1992:

Eastfield Resources acquired the property as the Koffee claims.

The above mentioned work covered a large portion of the present Koffee claims area however, no follow up work was carried out to determine the cause of any of the geochemical anomalies.

REGIONAL GEOLOGY

The geology of the Casino and surrounding region is drawn from mapping by Tempelman-Kluit (1973), Payne et al (1987) and Eaton (1993), figure 3. Payne is presently re-mapping the Casino intrusive complex for Pacific Sentinel Gold Corp. and some lithologic and age relationships are expected to be clarified by this work. This summary will rely on the historical references listed.

The property lies within the Dawson Range Batholith near and along its northern boundary with the Yukon Metamorphic Complex. The main batholith/metamorphic complex contact occurs less than five kilometers north of the property and the metamorphic rocks in the property area occur as an inlier or roof pendant, though a structural contact related to the Hoochekoo Fault is possible.

The Yukon Metamorphic Complex is a Proterozoic/Paleozoic package of metavolcanics and metasediments and gneisses (unit 1). In the area of Figure 3 unit 1 includes quartzites, quartz-feldspar-mica schist, amphibolite, augen gneiss and minor marble; unit 1 has

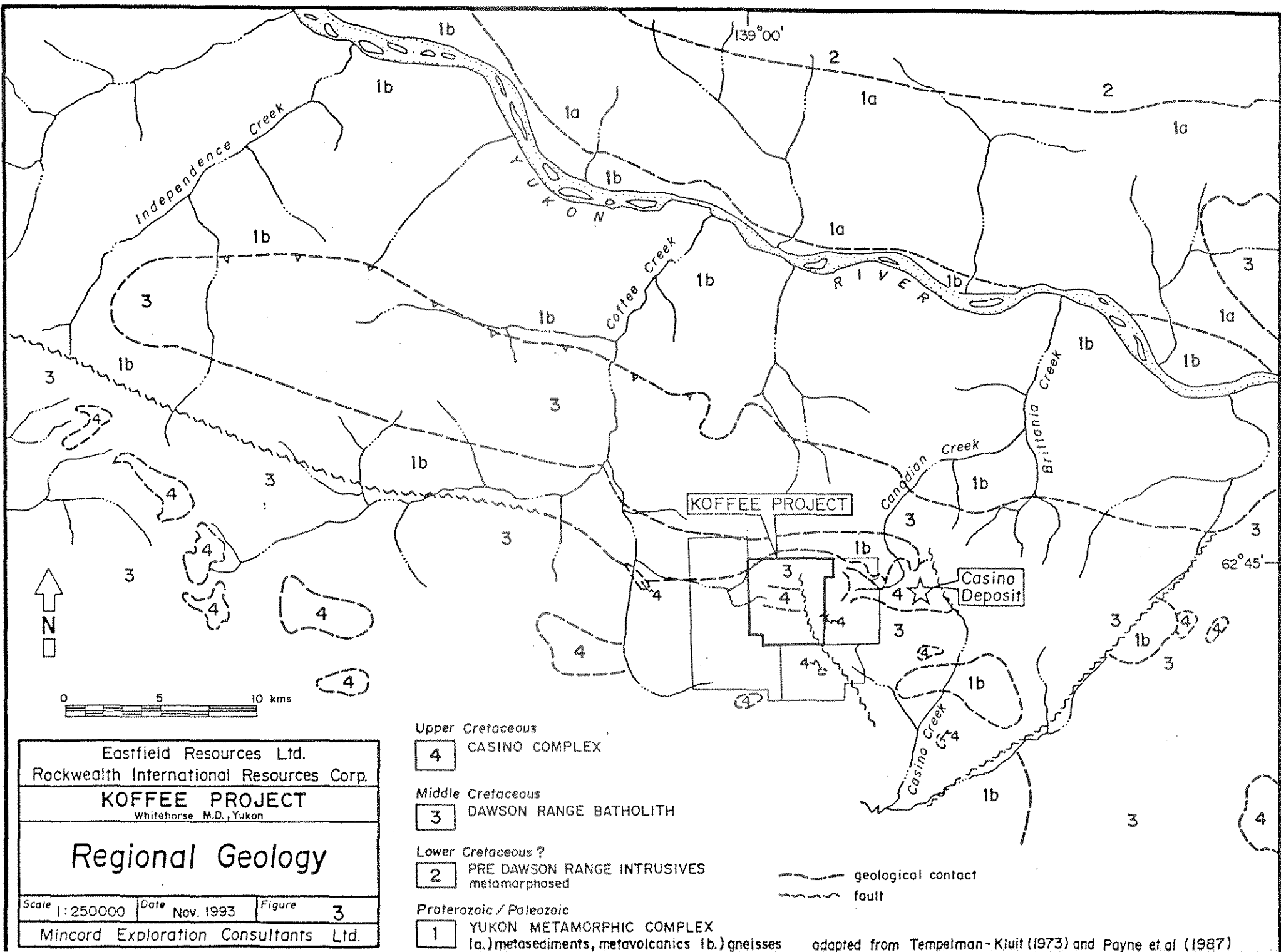
been referred to as the Pelly Gneiss, described as strongly foliated to gneissic muscovite chlorite biotite granodiorite.

Unit 2 is composed of weakly metamorphosed and foliated intrusives of pre Dawson Range Batholith age. These are predominantly quartz diorites and granodiorites in the vicinity of the Koffee property. No firm age has been determined for these rocks.

The Dawson Range Batholith (unit 3) is a middle Cretaceous massive medium to coarse grained intrusion that Payne et al (1987) divided into three varieties: hornblende potassic quartz diorite; biotite-hornblende granodiorite and; biotite bearing leucocratic granodiorite to quartz monzonite.

The Casino Complex (unit 4) intrudes the Dawson Range Batholith and was believed to be upper Cretaceous in age. Recent evidence (Eaton, 1993) suggests that the Casino Complex may form a late stage of the Dawson Range Batholith. The Complex comprises several phases of intrusives, breccias and, in some areas, volcanic extrusives. At the Casino deposit the mapped units include: intrusive and intrusion breccias of dominantly quartz monzonite composition; feldspar porphyry (Patton Porphyry); fine grained quartz monzonite; inequigranular quartz monzonite and; tuff and tuff breccia (Eaton, 1993). The breccia pipes at Casino are cone shaped with surface diameters of up to 500 meters. The Casino Complex hosts a large gold-copper-molybdenum deposit that is presently being explored by Pacific Sentinel Gold Corp.

The structural setting of the region is largely unresolved but Payne et al (1987) and Eaton (1993) both refer to a major west-northwest trending fault in the central part of Figure 3 that is an extension of the Hoochekoo and Big Creek Faults to the southeast. This fault forms the contact between the Dawson Range Batholith and the Yukon Metamorphic Complex a few kilometers north of the property, and is believed to be a southwest dipping



Eastfield Resources Ltd.
 Rockwealth International Resources Corp.

KOFFEE PROJECT
 Whitehorse, M.D., Yukon

Regional Geology

Scale 1:250000 Date Nov. 1993 Figure 3

Mincord Exploration Consultants Ltd.

Upper Cretaceous

4 CASINO COMPLEX

Middle Cretaceous

3 DAWSON RANGE BATHOLITH

Lower Cretaceous ?

2 PRE DAWSON RANGE INTRUSIVES metamorphosed

Proterozoic / Paleozoic

1 YUKON METAMORPHIC COMPLEX
 1a.)metasediments, metavolcanics 1b.)gneisses

— geological contact
 - - - fault

adapted from Tempelman-Kluit (1973) and Payne et al (1987)

thrust. Parallel to this feature, a fault mapped by Tempelman-Kluit along the southern contact of the inlier of YMT might represent a related structure. If projected southeasterly this fault would trace through the series of Casino intrusions from the headwaters of Coffee Creek to Casino Creek. The Dip Creek Fault, in the southeastern part of Figure 3, is northeast trending and is described by Payne et al (1987) as showing little offset. Airphotos display a number of northeast trending lineaments in the vicinity of Casino and it is suspected that these represent a regionally extensive fault set.

PROPERTY GEOLOGY

Within the Koffee-Casino area the oldest rocks belong to the Proterozoic-Paleozoic Yukon Metamorphic Complex which has been intruded by the Cretaceous Dawson Range granodiorite batholith and slightly younger Casino Complex intrusives, map 1.

The Yukon Metamorphic Complex consists predominantly of quartzites and gneisses with minor diorite usually as xenoliths. The quartzites are generally fine grained, pale grey to grey-brown or grey-green, are competent and often show a weak foliation. Quartz and feldspar grains account for approximately 90-95% of the rock in a generally siliceous but locally weakly calcareous matrix.

Gneisses range from felsic to mafic in composition and are very fine to fine grained. The finer grained felsic varieties are very similar to the foliated quartzites and appear to have gradational contacts. Within the gneissic zones the transition from felsic to mafic varieties can be gradational over a few centimeters or tens of centimeters. Mafic gneisses can be dark grey-green to almost black with up to 80% fine grained biotite. Generally the biotite is extensively altered to chlorite. Pyrite occurs as fine grained linear disseminations and locally composes up to 20% of the rock.

Diorite occurs as fine grained generally weakly foliated dark green fragments within breccias and occasionally the Dawson Range batholith.

On the Koffee claims the YMT occurs only as float on the east-west trending ridge across the northern edge of the property.

Cretaceous granodiorite of the Dawson Range Batholith is the most abundant rock type exposed on the Koffee property. This generally occurs as a relatively fresh medium grained to coarse grained weakly magnetic rock containing 10-25% mafics. Biotite is the dominant mafic occurring as books up to 5 millimeters in size. Hornblende is less common but occurs as phenocrysts up to 1 centimeter long. The plagioclase/orthoclase ratio varies from 95/5 to 75/25. Most of the southern 1/3 of the property is probably underlain by this granodiorite however, it only crops out along the crest of South Ridge, between the two southern arms of Coffee Creek.

A megacrystic potassium feldspar locally foliated, quartz diorite (unit 2) which outcrops along the ridge forming the divide between Coffee Creek and Canadian Creek to the east is believed to be a weakly metamorphosed pre-batholith intrusive (Payne 1993). This rock type is generally medium grained to coarse grained, grey, and contains potassium feldspar phenocrysts up to 1.5 centimeters across.

A quartz diorite to potassic quartz diorite unit, known as the Koffee Creek stock (Kgd), has sparse but widespread exposure through the central portion of the claim block. At the eastern side of the property this appears to be in fault contact with the megacrystic quartz diorite. Its age relationship is unknown but is probably post main stage of the batholith and may be related to the Casino Complex.

The Casino Complex consists of quartz monzonite, a rhyodacitic/dacitic unit known as the Patton Porphyry and various breccias. These are generally quite recessive and consequently

have very little exposure. Volumetrically the quartz monzonite is the most abundant and best exposed rock type at Casino. It occurs as a fine to coarse grained, equigranular to inequigranular pale to medium grey rock. The dominant form is a medium grained equigranular grey unit with less than 10% mafics, predominantly biotite. Only float of the quartz monzonite unit was observed on the Koffee property at a location on the west side, and in the southeast corner.

Inequigranular quartz monzonite contains phenocrysts of quartz and/or potassium feldspar (<10%) up to 5 millimeters generally in a fine grained to medium grained matrix, which occasionally exhibits a graphic or myrmekitic texture. Float of this material was located at approximately L10200W/11700N.

On the Casino property the Patton Porphyry has been subdivided into an earlier and a later phase, with the earlier occurring predominantly as clasts within intrusion breccias and containing only plagioclase phenocrysts. The later Patton Porphyry forms dykes or plugs with generally sharp and in part chilled contacts. It has a rhyodacite to dacite composition with a dark very fine grained to aphanitic groundmass with predominantly plagioclase phenocrysts however quartz, potassium feldspar and biotite phenocrysts may also be present. On the Koffee claims Patton Porphyry was only observed in drill hole 93-K-1. No surface expression of the Patton Porphyry exists.

Several distinctive breccia units appear to be both temporally and spatially associated with the Casino Complex intrusions. In the vicinity of the Casino deposit these are known as a micro or milled breccia, a homolithic intrusion breccia and a heterolithic intrusion breccia. Economically the micro breccia and the homolithic intrusion breccia are the most significant units.

No micro breccia was located on the property, however outcrop is extremely sparse. This unit has a matrix of very fine granular quartz and feldspar with fragments of granodiorite, quartz monzonite and/or Patton Porphyry. The micro breccia varies from

matrix supported with less than 20% fragments, to clast supported with less than 10% matrix. Triangular quartz fragments are distinctive of this unit, which can also contain locally up to 5% tourmaline as clusters of radiating crystals or black amorphous masses. To date, this has not been observed on the Koffee claims.

The homolithic intrusion breccia at Casino is essentially a brecciated quartz monzonite occurring within or on the edge of the quartz monzonite stocks. It consists of fragments of quartz monzonite, which are locally indistinct, in a fine to medium grained monzonite groundmass. Fragment size is generally less than 10 centimeters. The breccia located at L11800W/11800N probably fits this category although the rock is the quartz diorite of the Koffee Creek stock.

Heterolithic intrusion breccias appear to be related to the margins of the Casino Complex as a whole. Fragments consist of Dawson Range granodiorite and diorite, gneisses and quartzites of the Yukon Metamorphic Complex, and minor quartz monzonite and Patton Porphyry in a fine to coarse grained quartz monzonite groundmass. The range of fragment sizes is much larger than in the homolithic intrusion breccia, varying from a few centimeters to over 10 meters. Similarly the groundmass ranges from less than 10% to greater than 80%. A well rounded boulder of this unit was found in Coffee Creek in the vicinity of L11800W/11800N. Cretaceous/Tertiary latite and porphyritic latite have been documented on the Casino property and observed in outcrop in the headwaters of Coffee Creek in the vicinity of L10600W/10900N. They may reflect the waning stages of the Casino intrusions and are typically pale creamy brown, fine grained and locally contain quartz or plagioclase phenocrysts. An explosive/intrusive latite breccia occurs within the eastern portion of the Casino deposit, however it is barren of any mineralization.

Overburden is extensive on the Koffee property and in two of three trenches was over 3 meters deep. Drill hole 93-K-1

intersected 6.7 meters of overburden before encountering intensely oxidized and weathered bedrock. The majority of the outcrops are located along Coffee Creek with most of the rest of the property covered by a thick moss and permafrost horizon.

ALTERATION AND MINERALIZATION

The alteration patterns that are associated with the Casino deposit are typical of an Arizona type porphyry deposit. This consists of a potassic altered core surrounded by phyllic, argillic and propylitic zones forming concentric rings. At Casino the copper-gold mineralization is primarily associated with the zone of potassic alteration.

Propylitic alteration is characterized by chlorite, epidote, calcite and clay development. This assemblage is present in the granodiorites on South Ridge, the northerly trending ridge on the east side of the property and off the property to the west. Chlorite replaces the biotite and/or hornblende while epidote occurs as clasts and vein-like aggregates. The carbonate is generally pervasive but also occurs as hairline to 2 millimeter white veins.

Argillic alteration is poorly developed and erratic in distribution on the property. Samples K-9 and 11 show a transitional argillic/phyllic alteration. Characteristically, these rocks have a bleached appearance due to the abundant clay they contain. Typically, propylitically altered rocks are in contact with the phyllic facies without an intervening argillic facies. Pyrite is the dominant sulphide mineral with minor chlorite and carbonate. Montmorillonite and kaolinite are the characteristic clay minerals.

Phyllic alteration is widespread on the Koffee property in all rocks other than the granodiorites, and is characterized by intense texturally destructive sericite-quartz development, often containing 5-10% pyrite. In extreme cases the rock is essentially 100% sericite and quartz. These rocks are generally

white to very pale coloured and may contain tourmaline, kaolinite, hematite, calcite or ankerite as accessory minerals. Intense sericite-quartz alteration was observed in most rocks forming an east west trending band across the north side of the main Coffee Creek drainages, through the centre of the property.

A sericite-clay-chlorite alteration zone locally exists between the phyllic and potassic zones at Casino. In this environment rocks develop a pale green to off white coloration due to the alteration of plagioclase to a greasy, pale green aggregate of sericite and clay, along with chlorite replacing the biotite and hornblende. Original textures are preserved during this process resulting in a distinctive appearance. Any pre-existing potassic assemblages are preserved. Minor components consist of magnetite, calcite and hematite with a pyrite to chalcopyrite ratio of <2:1. This assemblage has not been observed on the Koffee property.

Potassic alteration as it exists at the Casino deposit is notable for secondary potassium feldspar flooding and secondary biotite along with quartz, sericite, magnetite, hematite, gypsum and some ankerite. Minor accessory minerals include tourmaline, chlorite, epidote and anhydrite. The total sulphide content within the potassic zone is generally low with the pyrite/chalcopyrite ratio normally <2:1. No widespread potassic alteration has yet been observed on the Koffee property however a magnetic high under L10600W at 11600N may represent a buried potassic core zone.

Pyrite is the most abundant sulphide observed on the property and is present in most rock types. Chalcopyrite occurs in trace amounts in samples JC-93-K-6, 8 and 22. Samples 6 and 8 are granodiorite with pyrite and chalcopyrite as disseminations and fracture fillings, however at 51 and 56 ppm respectively they are only weakly anomalous. A sample of phyllic altered quartz monzonite from a trench at L10600W/11575N returned 344 ppm copper and 180 ppb gold (K-22). This area is approximately the centre of the historical copper anomaly. Trenching at this location exposed a layer of decomposed intrusive rock a sample of which

(K-23) contained 2327 ppm copper and 72 ppm molybdenum. The high copper result is probably due to chalcocite within the regolith material, and as the quartz monzonite of sample K-22 came from the same place some chalcocite may have contaminated the sample. Limonite is extensive in all rock types due to the deep weathering and lack of glaciation in the area.

Surface rock sampling returned highly variable results in all elements ranging from 1-280 ppb gold, 5-2327 ppm copper, 3-526 ppm molybdenum and 2-137 ppm arsenic. Copper values are generally low in surface samples due to the extensive and intense leaching that has taken place. Only two samples returned values over 100 ppm zinc (K-21, 23) while 5 (K-17, 19, 20, 21, 24) samples contained elevated lead values. All of these are located on the eastern portion of the property in proximity to the two north northwest trending structures. Similarly, the only two silver values over 1.0 ppm (K-20 - 2.8 ppm, K-24 - 3.1 ppm) occurred in the same area.

STRUCTURE

Airphoto interpretation shows several major structural features on the Koffee property. These can be grouped into two categories - a north northwesterly set (approximately 340°) and an easterly trending structure (approximately 070°). A large northeasterly trending feature is marked by the course of the northern branch of Coffee Creek however this just touches the northwest corner of the claim block.

The easternmost of the NNW structures appears to form the contact between the quartz diorites and quartz monzonites within the Coffee Creek drainage, with the granodiorite and foliated quartz diorites which make up the northerly trending ridge between the Koffee and the adjacent Ana property. This break is also reflected in the soil geochemistry which shows an 800 meter wide copper anomaly west of line 10200W becoming a single point anomaly on line 9800W on the east side of the structure.

Two sub-parallel structures may exist 600 and 1500 meters to the west, however an almost complete lack of exposure in these areas makes verification of the features extremely difficult. Another soil geochemical copper anomaly, in the southeast corner of the grid, appears to be bounded by the two easternmost structures however additional sampling east of L9800W would be required to verify this conclusion.

The easterly trending feature (070°) crosses the central portion of the grid area just north of the main Coffee Creek drainage. A lack of rock exposure precludes making any definitive statements about the size or movement of the structure. The soil geochemical survey, however, shows a series of linear gold anomalies which coincide with the projected trace of the fault zone.

GEOCHEMICAL SURVEY

A north-south oriented grid totalling 20.1 kilometers was established on the Koffee claims with lines at 400 meter spacings and sample intervals of 75 meters. Samples were collected from the B horizon where possible, generally between 15 and 30 centimeters in depth. Occasionally organic A horizon material was used if the B horizon could not be obtained. A total of 241 soil samples were collected and shipped to Pioneer Laboratories in Vancouver, BC for analysis by 30 element ICP with AA gold. This grid provided approximately 50% coverage of the Koffee claims.

Sample results for copper and gold were contoured and the results are shown on map 2. Copper forms two distinct anomalies when contoured at the 40 ppm level. The primary anomaly covers an area of approximately 1000 meters by 2000 meters elongated along a west northwest axis through the centre of the grid. It extends from L10200W to L12200W and is 600 meters wide at the west edge of the grid. Line 10200W at the east end of the anomaly approximately coincides with a 350° trending fault structure, interpreted from airphotos. Within this anomaly a smaller zone

of +100 ppm copper covers an area of approximately 350 meters by 400 meters on L10600W and L11000W at 11400N. It coincides with the previous anomaly located by Archer Cathro in 1969, 1970 and 1980. A trench was cut at L10600W/11575N which failed to locate bedrock but did return 2327 ppm copper from a sample of decomposed intrusive. No sulphides were visible in the sample which was frozen when collected however black material in the regolith probably was chalcocite.

A small linear copper anomaly in the southeast corner of the grid appears to be truncated to the west against one of the 340° trending structural features but remains open to the east. As the easternmost of the 340° trending structures lies to the east of L9800W at this point it may yet prove to be a bounding structure.

Gold was contoured at the 40 ppb level and forms a series of linear anomalies. One group of these linear anomalies follows the trace of a projected easterly trending structure through the centre of the grid area on the north side of Coffee Creek. A maximum value of 460 ppb was received from a sample in this trend.

Two sub parallel linear gold anomalies occur to the north of Coffee Creek with a maximum value of 240 ppb gold at L12200W/12500N. No outcrop exists in this area however sample JC-93-K-12 was a piece of intrusive float which had undergone intense texture destructive quartz - sericite (phyllitic) alteration rendering the original rock type uncertain. At the 20 ppb level most of the western portion of the copper anomaly is anomalous in gold relative to the 1-2 ppb background concentrations. A histogram of gold soil values indicates 10 ppb to be the anomalous threshold.

On the south side of Coffee Creek a 200 meter by 800 meter gold anomaly stretches from lines 11000W to L11800W between 11500N and 11750N. This anomaly incorporates the exposure of homolithic intrusive breccia located in Coffee Creek. Surface samples of

this material returned background values for all elements except gold (89 ppb) and arsenic (107 ppm).

Base metal and silver values form a large coincident anomaly covering much of the eastern portion of the grid. The anomaly has a broad base along line 9800W and narrows to a point at 11800N on line 11400W. Strongly anomalous values for lead, zinc, silver and arsenic form an open ended cluster of at least 400 meters by 400 meters in the northeast corner of the grid (map 2a). The maximum values for all of the above elements were located in this area and include 435 ppm lead, 738 ppm zinc, 4.5 ppm silver and 1026 ppm arsenic. This zone remains open to the north on lines 9800W and 10200W and east of L9800W.

A series of veins associated with the 340° structure and possibly the 010° structure at the east edge of the property are the most likely source of this anomaly, however its elongate nature implies an additional component related to the 070° structure which trends through the centre of the anomaly.

GEOPHYSICAL SURVEYS

Scott Geophysics Ltd. was contracted to complete induced polarization and magnetic surveys over portions of the Koffee grid. The I.P. survey was carried out on lines 9800W, 10650W, 11400W and 12200W resulting in 10.1 line kilometers of survey. A Scintrex IPR-12 receiver and ICP-7 transmitter were used in the IP survey with pole-dipole array, an "a" spacing of 75 meters and "n" separations of 1,2,3 and 4. The magnetometer survey was carried out on lines spaced 400 meters apart from line 9800W through line 12200W for a total of 18.0 line kilometers. Two Scintrex IGS-MP4 magnetometers were used for the survey.

The IP survey outlined a 2.0 kilometer wide by 2.5 kilometer long chargeability anomaly at >15 mV/V, that is open to the east and west. A chargeability low lies in the central portion of the anomaly, measuring 1.0 kilometer in length and 50 to 500 meters in width. The north and south boundaries of the chargeability

anomaly lie peripherally but parallel to the copper and gold geochemical anomalies and these features all display a westerly trend. High chargeability values (>30 mV/V) correspond with lower resistivity (<500 ohm-m). The edges of the chargeability anomaly show sharp drops to background levels (<10 mV/V). The chargeability low centred on line 10650W/11750N is weak on all separations whereas it appears to form a shallow feature on the lines to the east and west. It is possible that this feature represents a sulphide depleted leach cap as the n=2,3 and 4 display increasing, strong chargeability.

The magnetic data shows a series of small magnetic highs that form a westerly trend through the southern half of the chargeability anomaly. The largest of these magnetic highs measures 1.0 kilometer by 500 meters, centred at approximately 10800W/11600N. This magnetic high straddles the southern border of the central chargeability low.

The geophysical anomalies on the Koffee grid conform well to the overall westerly trend established by surveys to the east on the Ana and Casino properties. The Ana grid is approximately 1.3 kilometers to the east of the Koffee grid, and interpolation is not possible without further work.

TRENCHING PROGRAM

A short trenching program was initiated on the Koffee property. Three trenches were cut using the D-8 caterpillar equipped with a ripper. One of the trenches encountered bedrock however the other two were still in permafrost at 4 meters depth and were abandoned.

Trench #1 was located on the side of the small outcrop knoll at L11700W/12200N. The trench was located to attempt to expose less intensely weathered material than was exposed on surface. A biotite quartz diorite (JC-93-K-11) makes up the exposure. The rock is intensely altered (quartz sericite) and leached with all sulphides have been replaced by limonite/hematite which has

subsequently been leached from the rock. Weakly anomalous gold (52 ppb) was contained in sample K-11.

Trench #2 was located at L10600W/11575N which was approximately the centre of the copper geochemical anomaly outlined by Trans Columbia Explorations in 1970 and Archer Cathro in 1981. This trench encountered only overburden and a horizon of what appeared to be regolith or decomposed intrusive. Two samples were collected: K-22 was a grab of fragments of intrusive and; K-23 was a sample of the regolith material. Both contained anomalous copper, molybdenum and gold values. The highest copper result on the property came from sample K-23 which contained 2327 ppm copper with 72 ppm molybdenum and 36 ppm gold. Sample K-22 of the less weathered material contained 344 ppm copper, 26 ppm molybdenum and 180 ppb gold. Secondary copper mineralization probably in the form of chalcocite is likely the source of the high values in K-23 as no sulphides were visible in the sample.

Trench #3 at L10600W/11150N was also intended to examine the area of the old copper geochemical anomaly. As in Trench #2 a regolith layer was encountered in the permafrost however no anomalous values were returned by samples JC-K-24 and 25.

DISCUSSION

The 1993 exploration program on the Koffee property was successful in dramatically advancing the understanding and exploration potential of the area. Prior to this work it was believed that the Casino intrusive complex and related hydrothermal system was largely restricted to the Casino property. Exploration and development work on the Casino property has outlined a hydrothermal sulphide system at least six kilometers in length. Work on the Koffee and Ana properties indicates that this system extends a further six kilometers westward, outlining an overall area of at least twelve by two kilometers of Casino intrusive related hydrothermal activity. The immense size of this system compares favourably with the

largest porphyry systems in North America. It is common for these large systems to host several mineral deposits.

The appeal in discovering Casino or "Arizona Type" copper-gold-molybdenum deposits lies in two factors: their multi-element character which offers commodity stability (gold generally accounts for 60% of their value) and; the presence of higher grade supergene or "enriched" zones which offer higher capital returns in the early years of mining. Pacific Sentinel Gold Corp. has published a resource of 99 million tons grading 0.40% copper and 0.014 oz/ton gold that defines one supergene zone within the much larger deposit. Intercepts within this zone have returned values in excess of 1% copper and 0.02 oz/ton gold. It is believed that this higher grade zone will be expanded and that other zones will be outlined.

A large, 2 kilometer by 1 kilometer, west northwest trending copper anomaly crosses the north central portion of the grid area. This copper anomaly incorporates several smaller gold anomalies within its boundaries, along with a strong magnetic high, and is wholly within the assumed trend of the Casino Complex. Outcrop exposure is very scarce within this area however those exposures that are present show moderate to strong phyllic alteration, indicative of a widespread and strong hydrothermal system capable of producing a porphyry deposit. Drill hole 93-K-1 has confirmed the presence of Casino Complex rock (ie. Patton Porphyry) within the projected trend.

The I.P. survey confirms that chargeability values over most of the Koffee grid are within the range found at the Casino deposit. The chargeability low extending from L9800W through L11000W partially coincides with a magnetic high and may represent a thin sulphide depleted leached cap over a potassic core, as chargeability values increase with depth and resistivity values show a slight increase.

At least four other geochemical/geophysical anomalies remain untested within the projected trend of the Casino Complex and

require further evaluation. These factors all combine to indicate a high probability for discovering ore grade mineralization within the Koffee property.

CONCLUSIONS AND RECOMMENDATIONS

The 1993 work program was successful in delineating a large target area which contains all of the geological, geochemical and geophysical parameters required to host a porphyry copper-gold-molybdenum deposit similar to the Casino deposit. These include:

1. The presence of the Casino Complex intrusives and breccias forming an east-west trending zone through the centre of the property.
2. An extensive multi-element soil geochemical anomaly which is partly correlative with the Casino Complex geology.
3. I.P. survey results outlining an east-west trending zone of ≥ 15 mV/V chargeability which correlates with the observed trend of the Casino Complex including the Casino deposit.
4. Ground magnetic surveys which show the presence of a buried magnetic high which may represent a potassic alteration core zone.
5. Widespread intense phyllic alteration of surface rocks.
6. Strong leaching of surface rocks required to form an enriched supergene blanket.
7. Chalcocite, chalcopyrite and molybdenite mineralization typical of a porphyry style deposit.
8. Strong base metal values typical of peripheral or cross-cutting late stage lead-zinc-silver veins.

Recommended Work Program

Additional work is both warranted and recommended for the Koffee claims and should be carried out in the following sequences. In order of priority these are:

- 1) Geochemical and geophysical coverage of the claim area should be increased to a 200 meter line spacing for the soil survey and a 400 meter line spacing for the magnetic and I.P. surveys. This would require an additional 240 samples and 10 line kilometers of I.P.
- 2) Road construction should be undertaken to provide drill access to the more distant areas of the property and increase exposure in areas of no outcrop. Approximately 5 kilometers of road are needed.
- 3) At least four more drill holes would be required to adequately test the strong copper and gold geochemical and coincident magnetic anomaly centred at L10600W/11500N. Drill hole 93-K-1 intersected mineralized Patton Porphyry on the periphery of this 800 meter by 600 meter zone which may represent a buried potassic altered core zone.
- 4) Excavator trenching may be effective in testing the extensive copper-gold anomaly in the northwest corner of the grid, from L11000W to 12200W between 12100N and 12700N. A minimum of four drill holes would then be necessary to test this target.
- 5) A coincident copper geochemical and magnetic anomaly between L11800W and 12200W from 11000N to 11300N requires trenching as there is no outcrop in this area and a silt sample collected downslope returned anomalous copper (72 ppm).

- 6) A strong linear gold anomaly from 12200W/11850N to 11800W/12000N should be trenched to determine whether there is a relationship to a postulated fault zone in the same area.


APPENDIX 1

STATEMENT OF QUALIFICATIONS

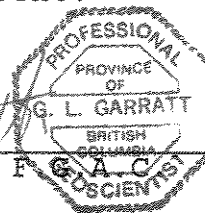
Statement of Qualifications

I, Glen L. Garratt, of 110 - 325 Howe Street, in the City of Vancouver, British Columbia do hereby state that:

1. I am a practising geologist and have been since 1973 after completing the requirements for a B.Sc. (Geology) at the University of British Columbia.
2. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of British Columbia and a Fellow of the Geological Association of Canada.
3. The work reported herein was carried out under my supervision.
4. I consent to the use of this report by Rockwealth International Resources Corp. to fulfill the requirements of regulatory agencies. Excerpts or quotations or summaries from this report may only be used with my consent.



G. L. Garratt, P. Geo., F.




Dated at Vancouver, British Columbia, this 30th day of October, 1993

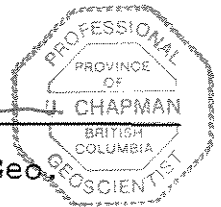
Statement of Qualifications

I, Jim Chapman, of Route 1, Box J-18, Bowen Island, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1976) and hold a B.Sc. degree in geology.
2. I have been employed in my profession by various mining companies since graduation.
3. I am a Professional Geologist with the Association of Professional Engineers and Geoscientists of British Columbia.
4. The information contained in this report was obtained from on site supervision of the program described.
5. I have no interest, direct or indirect or in the securities of Rockwealth International Resources Corp. or of the subject property.
6. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.



Jim Chapman
Consulting Geologist, P. Geo.



Dated at Vancouver, British Columbia this 29th day of October, 1993.

APPENDIX 2
EXPENDITURE STATEMENT

EXPENDITURE STATEMENT
 KOFFEE PROJECT
 March 15 - November 23, 1993

Professional Fees:

J. Chapman	27.38 days @ \$350/day	\$ 9,583.00
G.L. Garratt	2.67 days @ \$350/day	934.50
J.W. Morton	5.67 days @ \$350/day	1,983.33

Field Personnel Fees:

J. Campbell	17.17 days @ \$220/day	3,777.40
S. Stannus	16 days @ \$220/day	3,520.73
L. Horvat	7.33 days @ \$220/day	1,612.60
R. Bailey	8.33 days @ \$220/day	1,833.33
N. Coopey	9.17 days @ \$220/day	2,016.67
C. Cutforth	10 days @ \$220/day	2,200.00

Rentals:

Vehicle	1.3 days @ \$60/day	80.00
3 ATVs	21.8 days @ \$60/day each	3,924.00
Camp	25.8 days @ \$175/day	4,515.00
6 Radios	14.3 days @ \$5/day each	429.00
4 Radios	11.5 days @ \$5/day each	230.00
3 Chainsaws	14.3 days @ \$5/day each	214.50
Genset	25.8 days @ \$500/month	423.11

Transportation:

Fixed Wing - Charter		5,624.85
Scheduled Flights		2,143.56
Helicopter	6.8 hrs @ \$681.25/hr	4,632.48
Trailer		547.17

Travel Expenses:

837.21

Fuel:

6,485.51

Field Equipment:

2,052.12

Analyses:

Soil Samples	252 samples @ \$10.35/sample	2,608.20
Rock Samples	21 samples @ \$12.75/sample	267.75
Petrographic		447.00

Sub Contractor:

Expediting		296.26
Road Building		24,430.09
Barge		9,440.00
S. Main	2.33 days @ \$350/day	816.67
Geophysical		8,478.98

Secretarial:

4 hrs @ \$20/hr	80.00
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Koffee Expenditure Statement
Page 2

Communication:		
Radio/Telephone Rental		392.32
Telephone		1,225.28
Courier/fax		66.38
Freight:		509.17
Reproduction:	Maps	2,765.35
	Reports	14.40
Food:		4,621.29
Miscellaneous		144.23
Drafting:		<u>381.25</u>
Sub Total		\$116,584.69
GST on \$111,974.57		<u>7,838.23</u>
	TOTAL	\$124,422.92

PROJECT PERSONNEL

J. Chapman	Box J-18 Bowen Island, BC V0N 1G0	27.38 days
G. Garratt	110 - 325 Howe Street Vancouver, BC V6C 1Z7	2.67 days
W. Morton	110 - 325 Howe Street Vancouver, BC V6C 1Z7	5.67 days
J. Campbell	3965 Bear St. Victoria, BC V8N 3P9	17.17 days
S. Stannus	9894 256th St. 16 days Maple Ridge, BC V2X 8X7	16 days
R. Bailey	4759 Mapleridge Dr. North Vancouver, BC V7R 3T6	8.33 days
N. Coopey	1 - 1315 Gladstone Ave. Victoria, BC V8R 1R9	9.17 days
C. Cutforth	3965 Bear St. Victoria, BC V8N 3P9	10 days
L. Horvat	202 - 1599 W. 71st Ave. Vancouver, BC V6P 3C3	7.33 days

SUB CONTRACTORS

Scott Geophysics	4013 W. 14th Ave. Vancouver, BC V6R 2X3	Al Scott
10983 Yukon Ltd. Bulldozer	Box 4866 Whitehorse, YT Y1A 4N6	Bruce Cairns
Pioneer Labs	5 - 730 Eaton Way Annacis Business Park New Westminster, BC V3M 6J9	
Rat River Expediting	Box 5787 Whitehorse, YT Y1A 5L5	Mary Fitton

APPENDIX 3

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APPENDIX 4
CERTIFICATES OF ANALYSES

PIONEER LABS - KOFFEE ROCK SAMPLES - 1993

ELEMENT SAMPLE	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
JC-93-K1 ✓	6	25	5	11	.1	2	2	42	2.41	52	5	ND	4	22	.2	2	3	6	.03	.005	9	87	.02	255	.01	2	.36	.01	.28	1	49
JC-93-K2 ✓	5	20	14	42	.3	3	1	171	.87	137	5	ND	16	5	.6	3	2	3	.02	.004	23	81	.06	95	.01	2	.46	.08	.17	1	1
JC-93-K3 ✓	3	37	3	80	.3	9	14	668	4.02	3	5	ND	2	119	.4	2	2	105	2.06	.051	3	71	1.15	228	.16	2	3.50	.59	.16	1	1
JC-93-K4 ✓	3	72	12	73	.3	13	13	284	4.11	2	5	ND	2	67	.3	2	2	105	.82	.024	5	35	1.08	171	.14	2	3.80	.10	.15	1	7
JC-93-K5 ✓	5	14	19	3	.1	2	1	35	1.46	4	5	ND	14	25	.2	2	4	4	.05	.010	26	103	.04	193	.01	2	.44	.04	.35	1	1
JC-93-K6 ✓	3	51	3	26	.2	5	8	262	3.49	2	5	ND	9	35	.2	2	2	87	.72	.042	17	79	1.79	60	.25	2	2.13	.21	.83	1	7
JC-93-K7 ✓	7	37	7	4	.1	4	5	66	3.33	131	5	ND	3	11	.2	3	2	6	.12	.008	6	128	.05	18	.01	6	.45	.01	.25	1	91
JC-93-K8 ✓	6	56	3	13	.1	3	7	143	2.84	2	5	ND	7	22	.2	2	2	45	.30	.030	13	104	.76	49	.09	3	1.13	.13	.60	1	4
JC-93-K9 ✓	4	18	14	3	.2	3	6	31	1.78	107	5	ND	3	7	.2	4	2	7	.02	.004	17	95	.04	72	.01	10	.48	.01	.28	1	89
JC-93-K10 ✓	12	24	15	7	.1	2	1	46	1.21	16	5	ND	13	18	.2	2	2	4	.03	.007	22	106	.07	369	.01	3	.54	.03	.35	1	18
JC-93-K11 ✓	23	11	14	2	.3	2	1	30	1.88	15	5	ND	11	12	.2	3	2	4	.02	.007	16	91	.04	207	.01	3	.42	.01	.48	1	52
JC-93-K12 ✓	7	37	6	9	.1	2	1	41	3.09	2	5	ND	15	12	.2	2	2	6	.03	.019	7	77	.07	86	.01	3	.54	.03	.31	1	2
JC-93-K13 ✓	3	71	15	49	.4	5	5	319	3.48	28	5	ND	9	37	.8	2	2	43	.40	.046	22	13	.56	255	.09	2	2.00	.01	.12	1	10
JC-93-K14 ✓	2	42	12	41	.2	4	2	201	4.31	34	5	ND	9	32	.2	2	2	39	.36	.049	19	12	.47	219	.08	2	1.62	.01	.09	1	15
JC-93-K15 ✓	3	32	3	54	.1	33	13	567	3.10	2	5	ND	10	35	.4	2	2	64	1.03	.044	15	189	1.47	366	.28	2	1.89	.24	.89	1	18
JC-93-K16 ✓	7	18	2	8	.1	2	1	51	1.85	2	5	ND	3	32	.2	2	2	15	.06	.012	14	130	.41	283	.01	2	.81	.04	.37	1	280
JC-93-K17 ✓	6	24	22	22	.1	3	7	41	2.77	63	5	ND	9	7	.5	2	2	4	.05	.008	13	73	.04	33	.01	2	.46	.01	.24	1	80
JC-93-K18 ✓	11	14	16	21	.1	2	1	28	1.33	49	5	ND	10	13	.2	4	2	4	.02	.006	25	90	.02	140	.01	2	.39	.01	.22	1	85
JC-93-K19 ✓	516	26	49	10	.1	3	1	57	1.83	24	5	ND	9	22	.2	6	2	3	.01	.009	16	102	.02	166	.01	2	.30	.01	.23	1	50
JC-93-K20 ✓	13	28	46	27	4.8	3	4	376	2.34	54	5	ND	5	17	.2	3	2	8	.02	.016	27	64	.02	938	.01	2	.38	.01	.21	1	29
JC-93-K21 ✓	4	5	54	172	.1	6	9	954	3.47	49	5	ND	7	38	.4	6	2	21	1.40	.024	14	44	.44	658	.01	2	.54	.01	.17	1	3
JC-93-K22 ✓	26	344	15	40	.3	4	4	174	2.35	11	5	ND	25	16	.2	2	2	25	.07	.016	17	62	.08	92	.01	2	.55	.02	.20	1	180
JC-93-K23 ✓	72	2327	11	160	.1	13	4	441	7.86	27	13	ND	26	16	.6	2	12	45	.20	.037	27	7	.53	144	.05	2	1.62	.01	.17	1	36
JC93 K-24 ✓	3	28	67	27	3.1	5	5	100	2.52	30	5	ND	9	30	.4	5	2	11	.05	.024	25	53	.04	1523	.01	2	.58	.01	.30	1	17
JC93 K-25 ✓	4	20	12	48	.1	5	7	448	2.69	17	5	ND	7	27	.2	2	2	44	.37	.034	9	60	.43	181	.08	2	1.16	.07	.15	2	20

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Au
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm
9200W+9500W A2	1	15	23	86	.1	13	11	793	2.56	7	5	ND	6	33	.2	2	2	61	.59	.065	15	25	.73	179	.12	2	1.98	.01	.05	1	12
10000W+7025W A2	1	27	9	67	.1	23	13	399	3.49	10	5	ND	5	31	.2	2	2	69	.50	.065	14	35	.97	178	.16	2	2.93	.01	.14	1	1
10000W+7100W ↓	1	24	8	67	.1	22	11	276	3.11	6	5	ND	4	32	.2	2	2	73	.48	.066	14	34	.95	182	.15	2	2.72	.02	.12	1	1
10000W+7175W	1	25	8	63	.1	23	11	281	2.99	6	5	ND	4	32	.2	2	2	66	.51	.069	16	33	.89	184	.15	2	2.55	.02	.09	1	1
10000W+7250W	1	29	7	65	.1	21	11	331	3.28	5	5	ND	6	37	.2	2	2	67	.60	.070	18	32	.96	201	.17	2	2.34	.02	.11	1	1
10000W+7325W	3	32	9	48	.1	17	8	268	2.90	5	5	ND	4	27	.4	2	2	55	.35	.049	14	26	.61	129	.12	3	2.13	.02	.07	1	3
10000W+7475W	2	41	9	61	.1	21	9	366	3.31	7	5	ND	4	26	.2	2	2	65	.39	.059	12	32	.79	154	.15	2	2.38	.01	.09	1	5
10000W+7550W	3	39	9	63	.2	16	12	750	3.17	5	5	ND	2	35	.4	2	2	65	.44	.057	20	26	.72	185	.12	3	2.21	.02	.10	1	2
10000W+7625W	2	43	9	61	.1	20	12	520	3.51	5	5	ND	5	24	.3	2	2	70	.36	.057	17	27	.90	133	.15	2	2.85	.02	.13	1	1
10000W+7700W	6	46	7	57	.1	20	12	824	3.06	5	5	ND	3	30	.2	2	2	63	.41	.061	15	32	.71	147	.14	3	2.40	.02	.08	1	3
10000W+7775W	10	52	9	68	.1	18	10	384	3.18	3	5	ND	6	31	.4	2	2	68	.47	.061	17	30	.94	171	.18	2	2.41	.02	.13	1	1
10000W+7850W	13	47	11	62	.1	21	11	437	3.45	6	5	ND	3	34	.2	2	2	72	.44	.062	16	34	.83	215	.14	2	2.65	.02	.08	1	2
10000W+7925W	4	55	9	65	.1	20	11	436	3.37	6	5	ND	7	34	.2	2	2	70	.49	.065	20	32	.89	212	.18	2	2.38	.02	.13	1	1
10000W+8000W	2	43	12	74	.1	21	12	519	3.47	7	5	ND	6	32	.4	2	2	74	.42	.049	14	28	.87	191	.17	2	2.38	.02	.15	4	3
10000W+8075W	2	48	12	83	.1	23	13	690	3.40	4	5	ND	5	35	.3	2	2	73	.54	.076	14	29	.93	166	.17	2	2.21	.02	.16	2	1
10000W+8225W	3	51	11	77	.1	20	12	593	3.73	5	5	ND	9	28	.5	2	2	74	.43	.062	19	28	.93	188	.16	2	2.57	.02	.14	1	1
10000W+8300W	2	52	8	66	.1	18	10	395	3.44	5	5	ND	7	30	.2	2	2	71	.49	.067	20	31	.93	157	.19	2	2.41	.02	.22	1	2
10000W+8375W	9	166	10	64	.1	21	12	580	3.13	7	5	ND	4	34	.2	2	2	67	.46	.070	13	26	.71	145	.16	2	2.23	.02	.13	7	1
10000W+8450W	1	31	7	53	.1	19	9	315	2.99	5	5	ND	5	26	.2	2	2	61	.41	.060	12	29	.68	106	.15	2	2.25	.02	.08	1	3
10000W+8525W	11	69	10	97	.1	25	15	783	4.33	5	5	ND	7	29	.7	2	2	90	.32	.041	25	39	1.16	214	.17	2	3.82	.02	.08	1	1
10000W+8600W	11	64	8	86	.1	18	12	566	3.50	4	5	ND	5	32	.2	2	2	76	.49	.061	13	26	.96	172	.17	2	2.68	.02	.17	1	1
10000W+8675W	9	77	8	69	.1	16	14	700	3.67	4	5	ND	8	27	.2	2	2	80	.43	.052	13	23	.99	182	.19	2	2.33	.03	.24	7	1
10000W+8750W	5	35	9	62	.1	17	12	522	3.43	6	5	ND	5	26	.2	2	2	75	.40	.064	13	26	.87	135	.16	2	2.28	.02	.14	5	7
10000W+8825W	2	37	7	63	.1	19	12	649	3.22	6	5	ND	7	40	.2	2	2	76	.63	.071	15	29	.89	158	.18	2	1.82	.04	.16	2	1
10000W+8900W	3	30	6	85	.1	21	14	908	3.86	7	5	ND	10	35	.2	2	2	81	.55	.054	15	29	1.10	224	.18	2	2.59	.03	.22	1	1
10000W+8975W	4	32	5	68	.1	15	13	586	3.50	5	5	ND	9	30	.2	2	2	77	.47	.069	16	28	.95	120	.19	2	2.26	.02	.21	1	44
10000W+9050W	11	38	8	79	.1	21	13	513	3.78	7	5	ND	7	50	.2	2	2	82	.80	.064	31	31	.98	253	.16	2	2.82	.03	.17	1	1
10000W+9125W	9	31	10	78	.1	19	11	387	3.58	4	5	ND	6	47	.2	2	2	80	.75	.066	28	28	.95	241	.15	2	2.72	.03	.17	1	1
10000W+9200W	73	22	5	25	.1	9	11	3126	1.76	3	5	ND	2	48	.2	2	2	33	.79	.127	28	16	.16	188	.03	2	.97	.01	.05	1	1
10000W+9275W	54	31	7	45	.1	13	8	915	2.12	10	5	ND	2	57	.2	2	2	43	.86	.089	35	18	.38	224	.05	2	1.59	.01	.07	1	2
10000W+9350W	67	23	7	57	.1	14	13	622	3.09	7	5	ND	3	42	.2	2	2	68	.58	.083	24	29	.70	174	.09	2	2.17	.02	.08	1	1
10000W+9425W	31	17	7	61	.1	12	9	624	2.77	3	5	ND	3	38	.2	2	2	61	.56	.042	18	23	.70	177	.12	2	1.78	.02	.07	1	1
10000W+9500W	50	25	6	42	.5	10	12	765	4.43	19	5	ND	3	47	.2	2	2	95	.68	.082	34	19	.40	217	.05	2	1.83	.01	.08	1	1
10600W+10675W	3	11	21	143	.1	12	9	703	2.73	12	5	ND	3	44	.3	2	2	54	.65	.050	18	22	.64	222	.08	2	1.81	.02	.08	1	2
10600W+10750W ↓	3	24	46	143	.3	16	11	998	3.39	26	5	ND	2	31	.2	2	2	71	.35	.067	14	29	.69	234	.07	2	2.07	.02	.07	1	1

ELEMENT	Ko	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	S	Al	Mn	K	M	Au
SAMPLE	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppb
10600W+10825W	3	42	20	139	.1	19	12	604	3.07	25	5	ND	3	34	.2	2	2	60	.49	.058	10	37	.88	290	.12	2	2.28	.03	.10	3	2
10600W+10900W	2	38	17	110	.1	14	12	557	3.28	17	5	ND	3	50	.3	2	2	69	.48	.038	8	23	.80	276	.09	2	2.52	.02	.09	1	7
10600W+10975W	3	81	8	69	.1	13	7	266	2.85	12	5	ND	3	30	.2	2	2	61	.47	.051	11	30	.72	237	.09	2	2.09	.02	.17	1	86
10600W+11050W	1	32	13	88	.1	10	10	565	3.57	14	5	ND	6	34	.2	2	2	69	.36	.040	13	20	.83	278	.13	2	1.78	.01	.14	3	14
10600W+11125W	1	43	13	77	.2	12	9	555	2.97	11	5	ND	4	56	.2	2	2	56	.53	.071	21	22	.67	445	.09	2	1.97	.02	.10	1	120
10600W+11200W	1	26	15	71	.1	12	10	584	2.99	14	5	ND	8	50	.2	2	2	55	.58	.054	24	21	.67	275	.10	2	1.88	.02	.11	1	20
10600W+11275W	1	13	87	232	.4	17	6	265	2.38	108	5	ND	8	31	.3	7	2	44	.49	.047	20	29	.65	128	.11	2	1.79	.01	.09	1	3
10600W+11350W	24	225	27	79	.2	10	11	617	3.39	33	5	ND	7	40	.3	2	2	50	.39	.056	26	17	.43	417	.06	2	1.79	.01	.13	1	35
10600W+11425W	11	218	34	102	1.7	18	13	707	4.03	68	5	ND	6	51	.2	2	2	63	.56	.085	34	30	.64	401	.07	2	2.59	.01	.12	1	41
10600W+11500W	6	225	16	107	.3	19	7	403	2.23	61	5	ND	2	81	.2	2	2	40	.95	.066	28	22	.42	369	.06	2	1.74	.01	.09	1	1
10600W+11575W	4	58	24	213	.3	20	8	592	2.80	206	5	ND	2	64	.2	2	2	53	.78	.060	14	30	.64	361	.10	2	1.93	.02	.10	1	7
10600W+11650W	17	171	26	166	1.0	18	46	5909	3.04	135	5	ND	3	68	1.2	3	2	46	.85	.079	32	27	.44	514	.08	2	1.65	.02	.09	1	9
10600W+11725W	2	40	39	219	.6	17	9	997	2.79	180	5	ND	4	58	.2	4	2	49	.74	.057	26	27	.54	312	.09	2	1.83	.02	.09	2	4
10600W+11800W	1	54	5	244	.3	20	5	1714	1.05	28	5	ND	2	136	2.0	2	2	10	2.52	.117	82	12	.15	259	.01	3	.68	.01	.04	1	3
10600W+11875W	1	79	31	247	.9	19	8	1841	1.77	157	5	ND	2	84	3.1	3	2	21	1.35	.119	82	22	.16	210	.03	2	1.09	.02	.06	1	16
10600W+11950W	5	65	112	393	2.9	23	9	642	3.80	257	5	ND	4	63	.7	11	2	47	.80	.106	50	42	.63	419	.05	2	2.92	.01	.14	3	34
10600W+12025W	1	42	100	280	1.3	16	7	525	2.67	171	5	ND	4	45	.5	7	2	43	.59	.073	24	32	.62	193	.08	2	2.01	.01	.10	1	13
10600W+12100W	2	96	119	257	3.8	17	10	974	3.22	198	5	ND	7	66	2.0	8	2	31	.75	.099	116	22	.20	301	.02	2	2.19	.01	.09	1	82
10600W+12175W	1	36	60	221	.6	15	10	1102	3.27	147	5	ND	4	42	.4	4	2	52	.53	.080	22	30	.58	203	.07	2	1.92	.01	.09	1	20
10600W+12250W	1	42	24	84	.7	7	1	227	.60	42	5	ND	2	48	.6	3	2	8	.85	.118	17	13	.07	99	.01	2	.57	.01	.03	1	15
10600W+12325W	1	32	161	324	2.1	16	10	852	2.94	318	5	ND	2	39	.8	3	2	47	.55	.082	20	29	.57	163	.06	2	1.77	.02	.07	1	205
10600W+12400W	1	27	57	201	.8	15	6	882	1.40	115	5	ND	2	78	3.0	2	2	22	1.34	.065	41	15	.17	248	.04	2	1.05	.01	.06	1	4
10600W+12475W	1	30	31	209	.7	14	5	987	1.09	108	5	ND	2	84	4.3	4	2	15	1.44	.090	58	11	.13	227	.02	2	.95	.01	.06	1	7
10600W+12550W	2	23	59	113	1.0	16	8	1267	2.70	188	5	ND	2	49	.7	2	2	49	.62	.106	22	31	.39	167	.05	2	1.49	.01	.06	1	2
10600W+12625W	1	12	94	245	.4	18	6	220	2.24	68	5	ND	8	32	.2	7	2	42	.50	.046	21	30	.66	124	.12	2	1.84	.01	.09	1	10
10600W+12700W	1	32	33	95	.1	28	14	605	3.37	45	5	ND	9	24	.2	2	2	59	.31	.046	19	36	.71	140	.14	2	2.79	.01	.10	1	3
10600W+12775W	1	36	40	117	.2	24	11	607	3.28	50	5	ND	8	38	.2	2	2	62	.57	.070	28	33	.68	178	.15	2	1.69	.03	.10	1	2
10600W+12850W	1	18	50	228	.3	44	10	292	2.81	50	5	ND	7	35	.2	2	2	59	.60	.076	16	78	1.07	136	.16	2	1.95	.02	.10	1	3
10600W+12925W	11	23	7	70	.1	17	23	10281	2.68	147	5	ND	2	98	1.2	4	2	16	1.88	.122	14	10	.14	453	.02	2	.63	.01	.02	1	1
10600W+13000W	1	22	27	102	.1	21	13	2186	2.88	28	5	ND	7	39	.2	3	2	58	.56	.057	23	32	.65	205	.10	2	1.95	.02	.07	1	1
10600W+13075W	1	18	5	34	.1	9	4	308	.93	8	5	ND	2	79	.2	2	2	14	1.14	.084	10	12	.10	141	.02	2	.51	.01	.03	1	1
10600W+13150W	1	15	20	108	.1	14	6	255	1.98	25	5	ND	2	44	.2	2	2	35	.63	.073	14	20	.42	135	.07	2	1.25	.01	.07	1	1
10800W+7025W	9	20	5	69	.1	14	10	512	2.98	3	5	ND	5	44	.2	2	2	64	.68	.039	15	24	.87	192	.14	2	2.17	.02	.16	1	1
10800W+7100W	12	26	9	74	.1	17	12	563	3.29	2	5	ND	5	48	.2	2	2	71	.73	.049	32	28	.88	218	.13	2	2.58	.02	.15	1	1
10800W+7175W	14	22	9	85	.1	16	12	809	3.13	4	5	ND	5	48	.2	2	2	67	.73	.047	15	26	.90	244	.15	2	2.47	.02	.17	1	1

ELEMENT SAMPLE	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	M %	K %	W ppm	Au ppb
11400W+10975W	9	25	108	300	.5	19	15	627	4.13	87	6	ND	6	29	.2	.062	25	33	.63	157	.10	2	2.21	.01	.09	1	4
11400W+11050W	4	22	7	55	.3	6	3	450	.51	6	5	ND	2	35	.8	.108	12	11	.05	129	.01	2	.45	.01	.02	1	5
11400W+11125W	19	18	18	101	.1	10	11	1121	3.52	30	5	ND	2	34	.2	.096	11	23	.40	128	.07	2	1.17	.01	.05	1	2
11400W+11200W	4	21	4	55	.1	9	3	533	.78	2	5	ND	2	51	.4	.089	14	9	.09	141	.02	2	.51	.01	.02	1	3
11400W+11275W	15	18	5	68	.3	7	36	2777	4.04	11	5	ND	2	46	.2	.104	18	13	.18	159	.03	2	.71	.01	.05	1	1
11400W+11350W	10	11	13	65	.1	10	8	515	3.03	7	5	ND	2	31	.2	.080	9	21	.40	135	.09	2	1.23	.02	.05	1	3
11400W+11425W	11	14	11	73	.1	9	32	1461	5.60	24	5	ND	3	37	.3	.083	11	17	.36	143	.07	3	1.07	.01	.07	1	3
11400W+11500W	7	17	16	101	.1	11	14	1040	3.63	16	5	ND	7	35	.2	.063	14	22	.76	163	.15	2	1.74	.02	.14	1	31
11400W+11575W	5	41	12	57	.1	8	6	208	2.84	7	5	ND	2	51	.2	.046	14	17	.72	220	.11	2	1.76	.03	.17	1	50
11400W+11650W	2	26	54	159	.4	14	7	366	2.53	82	5	ND	6	27	.3	.038	17	26	.45	155	.09	2	1.94	.01	.03	1	29
11400W+11725W	2	33	37	136	.5	13	6	356	2.17	86	5	ND	2	27	.2	.048	18	24	.40	165	.07	2	1.59	.01	.07	1	40
11400W+11800W	2	22	56	157	.5	13	11	729	2.67	131	5	ND	3	28	.2	.048	15	27	.44	145	.08	2	1.79	.01	.08	1	6
11400W+11875W	3	39	44	134	.6	12	14	1238	2.14	72	5	ND	2	34	.3	.065	24	23	.27	218	.05	2	1.36	.01	.06	1	16
11400W+11950W	7	57	58	126	.4	13	9	329	3.11	114	5	ND	6	48	.2	.046	25	22	.40	222	.07	2	1.74	.01	.08	1	36
11400W+12050W	4	43	36	164	.1	19	8	545	2.51	72	5	ND	2	72	1.5	.074	35	24	.39	386	.06	2	1.66	.01	.09	2	11
11400W+12125W	7	62	41	108	.7	17	12	917	3.09	74	5	ND	3	63	.4	.089	32	26	.40	435	.05	2	2.07	.01	.03	1	23
11400W+12200W	6	38	35	104	.3	12	5	206	2.95	62	5	ND	5	47	.2	.039	19	21	.46	295	.07	2	2.04	.01	.10	1	34
11400W+12275W	4	72	27	86	.5	15	6	296	2.47	40	5	ND	2	50	.4	.069	27	21	.36	355	.05	2	1.65	.01	.07	1	20
11400W+12350W	3	60	26	56	.3	10	6	231	4.71	45	5	ND	8	42	.2	.063	33	17	.35	331	.04	2	2.22	.01	.07	1	32
11400W+12425W	3	57	14	51	.6	8	5	196	3.13	20	5	ND	7	42	.2	.064	32	13	.24	361	.04	2	3.07	.01	.08	1	44
11400W+12500W	3	53	18	64	.6	10	6	187	2.59	26	5	ND	4	39	.2	.058	35	18	.46	348	.07	2	2.15	.01	.10	1	60
11400W+12575W	2	90	12	90	.6	20	35	4793	2.32	10	5	ND	3	47	.3	.033	32	17	.38	317	.08	2	1.33	.02	.10	1	22
11400W+12650W	2	50	12	73	.4	13	9	944	2.02	9	5	ND	2	27	.2	.044	14	16	.16	187	.04	2	1.06	.02	.09	1	19
11400W+12725W	4	54	10	82	.9	9	7	323	3.54	17	5	ND	5	46	.2	.076	23	16	.69	328	.08	2	2.35	.01	.19	1	64
11400W+12800W	2	43	16	56	.6	13	5	196	2.42	14	5	ND	2	31	.2	.047	18	24	.43	208	.07	2	1.75	.01	.08	1	46
11400W+12875W	1	39	25	95	.4	14	11	374	3.77	25	5	ND	11	34	.2	.059	23	28	.82	303	.15	2	1.99	.01	.11	1	52
11400W+12950W	1	94	67	162	1.0	18	13	515	4.14	32	5	ND	12	28	.2	.049	27	30	.73	202	.12	2	2.13	.01	.14	1	30
11400W+13025W	1	31	39	125	.3	17	10	456	3.32	24	5	ND	7	29	.4	.055	16	30	.69	204	.13	2	2.12	.01	.09	1	10
11400W+13100W	1	34	32	115	.4	19	12	329	3.51	36	5	ND	9	31	.2	.045	22	33	.70	256	.13	2	2.40	.01	.09	1	20
2200W+9025W	4	33	10	67	.1	16	13	468	3.88	16	5	ND	5	32	.2	.056	15	27	.88	180	.13	2	2.37	.02	.13	1	2
2200W+9100W	3	52	7	67	.1	16	12	380	3.94	5	5	ND	9	34	.2	.048	12	36	1.16	207	.10	2	2.94	.01	.24	1	1
2200W+9175W	4	42	12	52	.1	10	8	354	3.49	8	5	ND	3	36	.2	.046	27	21	.58	203	.10	2	2.02	.01	.13	3	1
2200W+9250W	3	14	5	54	.1	10	9	308	2.30	6	5	ND	5	26	.2	.055	13	21	.67	184	.14	2	1.88	.02	.07	5	1
2200W+9325W	10	16	7	76	.1	14	11	550	3.00	13	5	ND	4	36	.2	.057	13	25	.86	200	.13	2	2.10	.02	.11	1	1
2200W+9400W	2	15	7	64	.1	15	17	1041	4.05	11	5	ND	5	40	.2	.063	18	28	.69	252	.12	2	2.24	.02	.10	1	2

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Au
SAMPLE	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
✓ 136004-12100H	1	13	2	30	.1	8	5	801	1.41	2	17	ND	2	62	.2	2	2	27	1.34	.052	13	9	.33	235	.06	2	.77	.01	.08	4	1
JC-93-123	72	2327	11	160	.1	13	4	441	7.86	27	13	ND	26	16	.6	2	12	45	.20	.037	27	7	.53	144	.05	2	1.62	.01	.17	1	36

Samples with ✓ mark are prepared -35 mesh.

ELEMENT SAMPLE	Mn ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au ppb	
9600W+9350N	21	11	2	63	.1	14	7	373	2.82	6	5	ND	5	31	.3	2	2	58	.65	.060	13	24	.81	125	.17	2	1.94	.02	.13	1	1
9600W+9425N	29	19	3	71	.1	17	12	937	3.53	4	5	ND	5	35	.3	2	2	63	.59	.073	15	37	.77	218	.16	2	2.54	.02	.10	1	5
9600W+9500N ^{A2}	47	16	4	63	.3	13	10	1140	2.87	2	5	ND	2	36	.9	2	3	55	.48	.111	11	32	.59	183	.09	2	1.93	.02	.06	1	1
9800W+10600N ^K	2	31	10	138	.3	14	8	284	3.16	21	5	ND	9	29	.6	2	2	60	.51	.047	15	33	.79	201	.15	2	2.17	.01	.10	2	18
9800W+10675N	1	88	6	71	.2	10	16	648	2.77	38	5	ND	6	27	.4	5	3	42	.49	.064	14	20	.66	145	.11	2	1.52	.01	.08	2	180
9800W+10750N	1	56	13	76	.2	8	7	279	3.57	23	5	ND	11	23	.2	2	2	51	.43	.060	14	26	.71	155	.13	2	2.04	.01	.10	1	95
9800W+10825N	1	59	14	109	.6	12	11	1991	2.89	27	5	ND	2	82	.5	3	2	37	1.51	.120	38	21	.40	538	.05	6	1.55	.01	.06	1	5
9800W+10900N	2	28	18	95	.5	7	33	8406	6.44	78	5	ND	5	39	.2	2	2	51	.63	.088	31	25	.49	498	.09	2	1.82	.01	.09	1	13
9800W+10975N	2	21	21	109	.3	11	12	862	4.19	46	5	ND	10	25	.4	2	2	64	.49	.066	15	30	.76	190	.14	2	2.13	.01	.13	1	18
9800W+11050N	1	25	20	102	.1	18	9	296	3.06	8	5	ND	9	27	.2	2	2	58	.50	.056	20	33	.79	234	.17	2	1.98	.02	.11	1	4
9800W+11125N	1	15	18	78	.3	15	14	1375	3.36	17	5	ND	6	35	.5	2	2	58	.62	.067	12	32	.73	244	.12	2	2.14	.01	.09	1	6
9800W+11200N	1	17	23	67	.5	10	7	648	2.63	11	5	ND	2	37	.9	2	2	42	.57	.106	11	32	.52	266	.07	4	1.72	.01	.06	1	1
9800W+11275N	2	25	15	92	.5	16	9	762	3.16	19	5	ND	4	38	.2	2	2	53	.70	.070	23	25	.72	276	.11	5	1.98	.01	.10	1	2
9800W+11350N	1	29	20	98	.2	18	8	797	3.22	20	5	ND	4	41	.2	2	2	54	.68	.056	27	25	.67	305	.12	4	1.97	.02	.10	1	4
9800W+11425N	2	21	10	41	.1	7	3	168	2.14	2	5	ND	2	15	.5	2	2	41	.12	.059	7	19	.24	50	.08	2	1.24	.02	.05	1	1
9800W+11500N	1	33	72	221	2.0	13	8	1127	3.79	320	5	ND	6	47	.4	2	2	57	.76	.066	30	27	.71	340	.11	2	2.21	.02	.12	1	6
9800W+11575N	2	23	6	65	.2	14	7	1230	2.22	2	5	ND	2	21	1.3	2	2	42	.21	.095	7	19	.20	118	.05	2	1.19	.01	.04	1	2
9800W+11650N	2	27	40	190	.4	16	8	878	3.58	138	5	ND	5	40	1.0	3	2	59	.68	.052	17	28	.71	262	.12	2	2.02	.01	.11	1	5
9800W+11725N	2	33	24	85	.2	20	6	566	2.88	42	5	ND	2	38	.8	2	2	54	.47	.047	21	30	.40	191	.09	2	1.72	.01	.05	1	1
9800W+11800N	2	44	68	533	1.8	23	8	719	3.35	458	5	ND	2	42	3.3	20	2	48	.69	.062	32	35	.69	210	.09	5	2.25	.01	.10	1	13
9800W+11875N	2	17	40	351	.1	20	6	508	3.81	137	5	ND	4	21	2.1	3	2	66	.27	.036	11	34	.64	124	.15	3	1.94	.01	.09	1	2
9800W+11950N	1	23	38	135	.7	23	10	395	3.07	94	5	ND	8	26	.6	24	2	49	.46	.045	21	32	.71	122	.15	4	1.88	.02	.14	1	2
9800W+12025N	2	31	435	262	4.5	16	7	449	3.62	437	5	ND	5	21	.2	25	2	48	.30	.047	17	33	.63	108	.11	3	1.96	.01	.11	1	27
9800W+12100N	1	26	24	102	.8	15	7	387	2.91	64	5	ND	2	25	1.0	4	2	45	.32	.068	16	28	.51	107	.09	2	1.59	.01	.07	1	1
10200W+10675N	2	26	20	115	.4	3	42	4905	8.84	22	5	ND	3	38	1.8	2	5	43	.60	.074	24	19	.41	312	.07	2	1.52	.01	.05	1	7
10200W+10750N	2	36	22	82	.6	11	9	513	5.23	24	5	ND	5	40	.2	2	2	80	.55	.106	20	29	.73	318	.12	2	2.37	.01	.08	1	8
10200W+10825N	1	70	3	16	.7	8	8	291	2.26	2	5	ND	2	63	.8	2	2	38	.85	.135	39	10	.10	375	.02	3	.65	.01	.02	1	1
10200W+10900N	1	45	18	43	.4	11	5	418	3.83	4	5	ND	3	61	.2	2	2	47	.63	.083	27	19	.47	450	.07	3	1.95	.01	.06	1	27
10200W+10975N	1	53	9	51	.4	13	22	1527	1.80	4	5	ND	2	90	1.4	3	2	21	1.22	.121	43	10	.23	529	.03	3	1.15	.01	.05	1	1
10200W+11050N	1	39	8	55	.4	14	11	711	3.34	17	5	ND	7	42	.4	2	2	45	.46	.052	43	20	.57	322	.09	3	1.99	.01	.09	1	20
10200W+11125N	1	32	15	74	.4	12	11	1460	2.97	14	5	ND	3	58	.2	2	2	43	.86	.081	27	21	.55	380	.08	2	1.94	.01	.08	1	9
10200W+11200N	1	15	22	87	.4	14	4	293	2.97	27	5	ND	5	32	.2	2	2	57	.48	.044	12	24	.65	239	.11	3	1.91	.01	.08	1	12
10200W+11275N	1	16	4	74	.1	13	8	686	3.34	15	5	ND	8	29	.2	2	2	57	.53	.060	14	25	.79	248	.15	2	1.72	.02	.14	1	6
10200W+11350N	1	23	19	75	.2	14	6	364	3.10	9	5	ND	7	42	.8	2	2	53	.64	.043	18	21	.72	195	.14	2	1.72	.01	.10	1	18
10200W+11425N	1	40	15	62	.4	7	5	291	2.67	21	5	ND	12	52	.2	2	2	35	.47	.052	34	13	.45	307	.07	2	1.56	.02	.09	3	8

ELEMENT SAMPLE	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au ppb
10200W+11500N	2	27	21	87	.6	15	6	553	2.45	35	5	ND	3	52	.8	2	2	45	.73	.041	15	25	.56	264	.11	2	1.63	.02	.09	1	5
10200W+11575N	2	48	15	216	.9	31	8	1014	2.87	180	5	ND	3	48	.6	2	2	45	.72	.055	20	30	.65	276	.11	2	1.97	.01	.09	1	8
✓10200W+11650N	2	59	21	249	1.6	22	9	2031	2.94	383	5	ND	2	78	2.5	7	2	44	1.39	.122	28	24	.43	285	.06	2	1.29	.01	.05	1	5
✓10200W+11725N	1	51	26	136	1.2	20	7	961	1.63	66	8	ND	2	98	2.9	8	2	22	1.57	.098	61	16	.32	498	.04	2	1.25	.01	.07	1	3
✓10200W+11800N	2	69	68	320	2.1	20	5	1280	2.36	288	5	ND	2	66	5.3	14	2	32	1.17	.101	73	22	.41	228	.05	2	1.48	.01	.07	1	16
10200W+11875N	1	32	29	150	.5	13	6	595	2.07	59	10	ND	2	58	.9	3	3	30	1.53	.084	57	23	.42	158	.07	4	1.45	.01	.05	1	1
10200W+11950N	1	42	21	316	1.3	9	3	200	1.22	98	5	ND	2	81	3.5	3	2	16	1.73	.082	33	14	.23	133	.04	2	.74	.01	.06	1	38
10200W+12025N	1	34	100	407	2.6	19	6	651	3.22	549	5	ND	4	39	2.4	8	2	38	.67	.057	29	29	.60	151	.08	3	1.95	.01	.10	1	40
10200W+12100N K 1	54	142	738	3.2	12	7	833	3.22	682	10	ND	3	55	4.3	17	2	36	1.02	.077	78	30	.54	203	.07	6	2.10	.01	.10	1	25	
10400W+7000N A2 4	18	6	76	.2	12	7	351	3.11	2	5	ND	4	33	.2	2	2	57	.60	.042	12	29	.85	184	.15	2	2.34	.02	.12	2	1	
10400W+7025N	5	23	3	76	.2	9	9	472	3.28	2	5	ND	4	39	.4	2	2	59	.70	.052	17	29	.85	175	.14	6	2.47	.02	.10	1	16
10400W+7150N	11	29	10	71	.3	12	8	511	3.28	2	6	ND	4	34	.7	2	3	60	.60	.060	20	30	.78	174	.13	3	2.42	.02	.08	1	8
10400W+7225N	8	21	2	63	.1	6	9	428	3.31	2	5	ND	4	21	.3	2	2	60	.36	.035	10	27	.75	113	.16	2	2.22	.01	.09	3	9
10400W+7300N	11	30	2	73	.2	13	5	352	2.92	2	5	ND	4	40	1.5	2	2	53	.67	.061	14	25	.75	187	.12	2	2.30	.02	.12	1	1
10400W+7375N	13	33	6	72	.2	10	8	594	3.00	2	5	ND	3	48	.2	2	2	54	.84	.060	20	29	.75	196	.12	4	2.29	.02	.07	1	1
10400W+7450N	21	45	8	75	.2	17	9	620	3.37	4	5	ND	4	31	.6	2	2	60	.58	.051	15	30	.80	174	.15	2	2.43	.02	.09	3	1
10400W+7525N	22	30	4	78	.2	14	9	462	3.29	2	5	ND	4	34	1.1	2	2	60	.65	.035	10	27	.82	147	.16	3	2.19	.02	.10	1	1
10400W+7600N	18	32	2	80	.2	13	9	656	3.47	2	5	ND	3	35	.6	2	2	62	.65	.056	14	32	.86	182	.14	2	2.45	.02	.08	1	1
10400W+7675N	16	24	3	93	.2	16	8	416	3.65	3	5	ND	3	34	.9	3	2	68	.69	.048	9	31	.94	214	.16	2	2.36	.02	.07	1	1
10400W+7750N	22	22	3	78	.2	6	8	380	3.48	2	5	ND	6	34	1.0	2	2	68	.78	.036	16	24	1.00	165	.18	2	2.33	.02	.15	1	1
10400W+7825N	16	43	9	81	.2	16	10	409	3.81	2	5	ND	8	31	.2	2	2	81	.76	.055	20	30	1.03	197	.18	2	2.70	.02	.21	1	1
10400W+7900N	16	22	2	77	.2	17	9	546	3.72	2	5	ND	3	32	.7	3	2	69	.70	.051	17	31	.93	189	.15	2	2.44	.01	.08	1	6
10400W+7975N	17	23	10	74	.1	15	9	574	3.86	2	5	ND	4	25	.7	2	2	69	.50	.048	14	32	.89	146	.16	2	2.46	.01	.09	2	1
10400W+8050N	13	27	8	71	.2	24	12	581	3.84	6	5	ND	3	28	.2	2	2	68	.55	.052	13	33	.89	155	.16	2	2.40	.02	.09	2	1
10400W+8125N	5	29	11	74	.1	24	10	576	4.14	8	5	ND	4	26	1.2	2	2	70	.53	.050	15	37	.95	131	.17	3	2.56	.01	.08	1	1
10400W+8200N	7	34	4	81	.1	21	10	644	4.16	2	5	ND	3	29	.9	2	2	73	.62	.060	12	37	.91	128	.17	3	2.21	.01	.10	1	1
10400W+8275N	3	32	2	68	.2	19	9	453	3.46	7	5	ND	4	27	.2	2	2	66	.55	.060	13	32	.81	116	.17	2	1.76	.02	.09	2	6
10400W+8350N	16	50	7	87	.2	19	8	742	3.74	2	5	ND	2	29	1.3	2	2	67	.47	.075	9	34	.73	123	.14	4	1.84	.02	.09	1	1
10400W+8425N	3	90	12	63	.2	29	10	507	3.93	5	5	ND	3	21	.8	2	2	67	.36	.036	12	37	.82	91	.16	3	2.51	.01	.08	1	1
10400W+8500N	1	24	5	62	.1	23	7	320	3.11	4	5	ND	3	29	.2	2	2	53	.45	.062	16	32	.79	119	.16	2	2.15	.02	.09	1	1
10400W+8575N	3	80	5	73	.1	25	10	732	3.77	13	5	ND	3	32	.7	2	2	60	.53	.085	23	29	.81	137	.12	2	2.29	.03	.10	2	1
10400W+8650N	5	44	3	73	.1	19	11	625	3.76	2	5	ND	6	28	.2	2	2	65	.51	.062	21	31	.94	154	.16	2	2.58	.02	.14	1	5
10400W+8725N	2	28	2	73	.1	16	8	499	3.90	4	5	ND	9	28	.5	2	2	69	.62	.061	20	30	1.01	161	.18	2	2.48	.02	.22	1	3
10400W+8800N	2	19	5	78	.1	18	10	324	3.78	5	5	ND	10	24	.2	2	2	71	.50	.044	15	29	1.01	154	.19	2	2.76	.02	.18	1	2
10400W+8900N	9	29	2	78	.2	25	10	358	3.49	8	5	ND	7	28	1.0	2	2	68	.44	.049	25	33	.87	214	.16	2	2.80	.02	.11	1	1

ELEMENT SAMPLE	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au ppb
11000W+12700N	5	30	26	71	.5	13	27	3244	3.86	64	5	ND	3	30	.4	2	2	55	.43	.067	14	27	.63	259	.11	4	1.91	.01	.08	1	30
11000W+12775N	2	48	15	87	.8	23	9	377	3.79	29	5	ND	8	24	2.1	2	2	52	.39	.049	19	30	.78	196	.13	2	2.43	.01	.10	2	76
11000W+12850N	1	40	17	80	.4	17	9	340	3.69	34	5	ND	7	29	.2	2	2	54	.44	.045	18	32	.74	203	.13	2	2.35	.01	.08	1	30
11000W+12925N	1	55	14	89	.5	22	6	418	3.47	41	5	ND	7	34	.3	3	2	51	.55	.054	19	34	.74	251	.14	2	2.06	.02	.09	1	50
11000W+13000N	1	56	25	119	.7	18	8	396	3.37	112	5	ND	7	29	.5	4	2	51	.46	.049	18	32	.71	206	.13	2	2.15	.01	.09	1	31
11000W+13075N	1	39	15	108	.4	17	9	495	3.46	78	5	ND	7	33	.2	3	2	52	.58	.051	17	32	.72	237	.14	5	2.02	.02	.09	2	24
11800W+10675N	2	15	13	107	.2	17	11	311	3.68	25	5	ND	8	24	.2	2	2	65	.45	.042	13	33	.86	130	.17	3	2.52	.02	.12	3	1
11800W+10750N	1	24	13	100	.1	19	8	299	3.77	27	5	ND	9	30	.2	2	2	62	.50	.041	20	35	.77	177	.17	5	2.43	.02	.11	2	4
11800W+10825N	4	37	28	159	.3	20	15	720	3.89	33	5	ND	6	26	.6	2	2	67	.46	.054	17	42	.88	207	.18	2	2.66	.01	.13	3	7
11800W+10900N	8	33	7	142	.2	22	10	473	3.73	25	5	ND	5	31	.2	2	2	66	.59	.052	14	42	.93	187	.20	5	2.37	.02	.20	2	7
11800W+10975N	7	14	7	53	.2	9	6	220	2.49	10	5	ND	2	29	.3	2	2	58	.48	.028	8	24	.45	106	.15	2	1.15	.02	.09	3	2
11800W+11050N	23	37	2	66	.2	18	12	3673	2.39	7	5	ND	2	86	.2	2	2	29	1.97	.124	7	19	.24	329	.04	2	.90	.01	.03	1	3
11800W+11125N	8	55	10	90	.5	32	13	374	4.40	21	5	ND	4	24	.2	2	2	72	.29	.034	9	45	.74	172	.15	2	2.81	.01	.10	4	12
11800W+11200N	3	33	4	71	.2	6	6	237	2.17	12	5	ND	2	22	.2	2	2	50	.31	.034	5	29	.38	73	.12	2	.85	.01	.07	2	13
11800W+11275N	2	23	4	35	.3	13	21	1407	1.35	2	5	ND	2	32	.7	2	2	21	.50	.100	9	14	.15	149	.04	2	.71	.01	.04	1	2
11800W+11350N	2	20	2	39	.3	5	4	220	1.48	2	5	ND	2	23	.6	2	2	25	.37	.098	7	14	.21	110	.05	2	.69	.01	.04	2	2
11800W+11425N	2	15	7	42	.2	3	9	771	1.08	2	5	ND	2	26	.5	2	2	13	.36	.106	7	10	.11	129	.02	3	.50	.01	.05	1	1
11800W+11500N	3	20	3	29	.4	9	5	469	2.71	5	5	ND	2	31	.8	2	2	37	.50	.126	8	19	.13	144	.02	3	.76	.01	.03	1	1
11800W+11575N	2	11	10	70	.2	15	5	173	1.88	2	5	ND	2	29	.6	2	2	33	.48	.052	8	37	.64	140	.13	2	1.56	.02	.06	3	83
11800W+11650N	3	16	9	84	.1	13	6	218	2.63	9	5	ND	2	27	.2	2	2	51	.40	.043	9	38	.80	142	.15	2	1.97	.01	.06	3	13
11800W+11725N	4	25	15	5	.3	10	1	30	9.34	460	5	ND	21	64	.2	5	3	19	.16	.056	39	4	.03	33	.01	12	.33	.04	1.37	1	47
11800W+11800N	4	27	38	96	.5	16	10	523	2.80	65	5	ND	5	28	.2	2	2	38	.36	.047	18	25	.50	188	.10	4	1.85	.01	.08	2	28
11800W+11875N	3	26	19	57	.3	11	6	198	2.33	39	5	ND	3	26	.6	3	2	34	.32	.044	14	20	.42	194	.08	2	1.69	.01	.06	2	17
11800W+11950N	2	28	6	50	.1	16	9	211	2.87	24	5	ND	3	26	.2	2	2	45	.32	.037	15	27	.53	215	.12	2	1.76	.01	.08	4	26
11800W+12025N	1	35	9	42	.3	4	4	151	2.12	10	5	ND	8	25	.2	2	2	32	.32	.032	18	12	.51	196	.09	2	1.55	.01	.09	3	460
11800W+12100N	6	75	7	39	.3	6	4	145	3.69	27	5	ND	7	38	.5	2	2	39	.20	.045	22	16	.38	239	.04	4	1.99	.02	.12	2	27
11800W+12175N	2	50	4	37	.2	10	4	208	3.62	12	5	ND	5	20	.2	2	2	49	.14	.026	14	18	.44	126	.08	3	1.91	.01	.09	1	19
11800W+12250N	1	51	2	40	.3	5	3	118	2.74	2	5	ND	3	22	.2	2	2	37	.26	.040	14	18	.48	121	.08	2	1.88	.01	.06	2	44
11800W+12325N	1	62	3	20	.4	9	4	77	1.62	2	8	ND	2	47	.6	2	2	14	.49	.079	22	11	.14	271	.03	2	1.03	.01	.03	1	21
11800W+12400N	1	44	10	39	.7	8	3	115	2.23	9	5	ND	2	40	.7	2	2	31	.41	.055	20	17	.42	246	.07	2	1.61	.01	.08	2	28
11800W+12475N	1	25	11	49	.4	6	5	172	2.65	13	5	ND	5	34	.5	2	2	41	.30	.032	16	17	.48	161	.09	2	1.44	.01	.09	3	22
11800W+12550N	2	43	6	50	.6	9	4	160	2.47	16	5	ND	3	38	1.0	2	2	33	.33	.049	22	18	.45	228	.06	4	1.60	.01	.09	1	24
11800W+12625N	2	36	12	63	.3	7	5	259	3.68	13	5	ND	8	50	.2	2	2	41	.38	.041	23	16	.53	299	.09	6	1.45	.03	.17	1	39
11800W+12700N	2	42	23	92	.9	15	10	310	3.27	26	5	ND	6	22	.9	2	2	45	.28	.040	26	26	.58	199	.09	2	2.12	.01	.08	1	22
11800W+12775N	3	226	82	175	3.3	26	12	701	3.80	58	26	ND	2	51	2.2	2	3	39	.54	.088	83	28	.39	400	.03	3	2.51	.01	.10	1	40

ELEMENT SAMPLE	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au ppb
11800W+12850N	3	72	85	206	3.4	14	13	1762	4.64	63	20	ND	12	52	.4	2	2	50	.72	.102	51	36	.45	450	.02	2	3.48	.01	.12	2	55
11800W+12925N	2	21	31	119	.5	16	9	412	3.33	26	5	ND	8	23	.2	2	2	48	.37	.047	20	28	.62	178	.09	2	2.05	.01	.08	1	10
11800W+13000N	3	17	23	114	.4	13	8	418	3.16	34	5	ND	10	23	.2	2	2	46	.39	.045	15	27	.67	166	.11	4	1.98	.01	.09	1	8
11800W+13075N	4	21	18	72	1.6	12	6	305	2.58	10	5	ND	3	17	.2	2	2	45	.21	.025	20	19	.40	131	.05	2	1.52	.01	.08	1	16
12200W+10600N	2	13	8	56	.2	4	7	296	2.40	2	5	ND	2	34	.2	2	2	40	.50	.061	14	22	.62	199	.12	4	1.97	.02	.08	1	1
12200W+10675N	3	12	13	110	.2	9	10	628	3.44	34	5	ND	7	29	.6	2	2	63	.59	.046	13	26	.86	133	.17	2	1.95	.02	.19	3	13
12200W+10750N	2	25	11	111	.8	14	4	273	2.34	30	5	ND	2	58	1.3	2	2	45	.96	.051	19	21	.46	277	.09	4	1.45	.02	.08	1	5
12200W+10825N	3	32	13	110	.4	19	11	768	3.35	15	5	ND	2	40	.4	2	2	65	.71	.063	11	34	.74	233	.15	2	2.16	.02	.11	1	1
12200W+10900N	4	26	14	94	.2	17	9	806	3.25	10	5	ND	2	34	.6	2	2	72	.55	.057	10	32	.65	214	.16	3	1.82	.02	.10	1	1
12200W+10975N	1	21	2	18	.2	3	4	110	1.03	2	5	ND	2	36	.2	2	2	8	.52	.103	18	9	.10	181	.02	2	.79	.01	.03	1	1
12200W+11050N	6	29	7	38	.5	15	52	4291	2.54	5	5	ND	2	31	.2	2	2	47	.44	.112	10	25	.26	219	.04	3	1.00	.02	.05	1	1
12200W+11125N	3	22	9	76	.2	17	9	256	3.72	7	5	ND	4	27	.2	2	2	67	.54	.050	10	32	.89	141	.18	2	2.22	.02	.10	1	2
12200W+11200N	5	42	11	82	.3	14	11	375	3.96	13	5	ND	4	31	.2	2	2	82	.48	.048	9	28	1.03	156	.19	2	2.42	.03	.18	4	1
12200W+11275N	2	42	8	49	.1	11	7	247	3.00	8	5	ND	2	33	.2	2	2	65	.36	.037	8	23	.77	141	.15	2	1.98	.04	.10	3	4
12200W+11350N	3	34	12	65	.4	11	14	1005	3.08	14	5	ND	2	36	.9	2	2	71	.46	.068	9	27	.69	187	.11	2	2.09	.02	.07	2	1
12200W+11425N	3	23	4	23	.3	10	6	329	1.94	2	5	ND	2	21	.2	2	2	41	.24	.074	6	16	.20	91	.04	3	.73	.02	.03	1	1
12200W+11500N	15	31	2	26	.6	9	26	2567	5.62	6	5	ND	2	34	.2	2	2	118	.46	.126	9	16	.14	175	.03	6	.86	.01	.03	1	1
12200W+11575N	2	19	9	68	.1	18	10	246	3.25	2	5	ND	3	26	.2	2	2	64	.43	.045	9	34	.87	146	.18	3	2.15	.02	.11	3	7
12200W+11650N	1	51	14	32	.4	6	5	148	3.27	7	5	ND	5	41	.2	3	2	49	.18	.040	20	13	.49	207	.08	2	1.80	.06	.15	1	7
12200W+11725N	4	40	18	67	.2	13	17	1150	4.38	9	5	ND	4	31	.2	2	2	68	.31	.055	14	25	.77	160	.14	2	2.05	.03	.13	1	4
12200W+11800N	1	47	3	66	.1	15	9	267	4.13	11	5	ND	7	47	.2	2	2	65	.46	.049	18	27	.97	286	.19	2	2.31	.03	.21	1	380
12200W+11875N	1	37	7	32	.2	10	5	124	2.23	5	5	ND	2	43	.2	2	2	36	.33	.049	13	15	.46	235	.10	2	1.31	.02	.14	1	33
12200W+11950N	1	69	2	83	.2	6	16	409	4.18	9	6	ND	8	78	.4	2	2	70	.48	.064	29	13	.93	252	.20	2	2.29	.04	.56	1	15
12200W+12025N	1	36	2	40	.2	10	4	199	2.80	5	5	ND	2	29	.3	2	2	53	.25	.031	13	19	.58	203	.15	2	1.64	.02	.13	1	12
12200W+12100N	1	28	11	27	.1	9	3	104	2.32	10	5	ND	3	25	.2	2	2	40	.16	.027	11	16	.30	174	.10	3	1.53	.02	.09	1	1
12200W+12175N	1	42	7	35	.1	5	3	157	4.39	7	5	ND	7	39	.2	2	2	46	.10	.038	16	11	.67	155	.05	2	1.75	.03	.15	1	64
12200W+12250N	1	34	6	46	.2	12	7	155	4.03	38	5	ND	7	48	.2	2	2	45	.21	.048	20	23	.50	274	.09	2	1.95	.02	.16	1	10
12200W+12325N	1	8	2	21	.1	4	2	39	.79	2	5	ND	2	34	.2	2	2	6	.34	.082	2	4	.07	99	.01	2	.27	.01	.03	1	1
12200W+12400N	1	43	5	42	.1	10	3	123	3.68	10	5	ND	5	43	.2	2	2	50	.25	.035	18	24	.57	207	.09	2	2.14	.01	.07	1	20
12200W+12475N	1	59	2	49	.2	15	5	156	3.48	31	5	ND	11	60	.6	2	2	48	.35	.044	22	21	.70	204	.12	5	2.06	.04	.10	1	240
12200W+12550N	2	39	11	52	.2	10	5	128	3.13	39	5	ND	6	33	.2	2	2	51	.25	.044	20	23	.53	187	.11	2	2.17	.01	.07	1	23
12200W+12625N	4	60	15	74	1.8	12	23	2205	3.22	61	25	ND	2	75	2.7	2	2	44	1.31	.085	102	14	.30	487	.03	2	1.35	.01	.05	1	26
12200W+12700N	1	17	26	92	.6	11	6	273	3.01	51	5	ND	5	24	.4	2	2	53	.33	.021	12	24	.55	133	.12	3	1.94	.01	.07	1	14
12200W+12775N	2	21	14	78	.9	12	4	164	2.19	29	5	ND	2	26	.7	2	2	36	.33	.031	13	23	.46	155	.08	2	1.63	.01	.07	1	2
12200W+12850N	4	21	25	65	3.2	5	4	218	1.78	27	9	ND	2	50	1.4	2	2	23	.73	.059	34	16	.24	226	.04	2	1.29	.01	.06	1	1

ELEMENT SAMPLE	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au ppb
12200W+12925N	2	16	22	82	.3	16	7	397	2.81	36	5	ND	4	26	1.0	2	2	51	.34	.032	14	27	.54	146	.10	2	1.86	.01	.07	1	2
12200W+13000N	2	15	20	78	.4	7	4	235	2.74	33	5	ND	5	21	.5	2	2	54	.21	.020	14	26	.51	115	.11	2	1.87	.01	.07	1	1
12200W+13075N	2	14	17	81	.3	15	9	401	3.54	70	5	ND	9	18	.5	4	2	57	.26	.027	14	27	.60	102	.12	2	2.13	.01	.07	1	7
JC-93-AZ-8	7	20	4	65	.1	6	9	508	3.86	2	6	ND	7	28	.2	2	2	78	.66	.053	15	21	.90	107	.17	2	2.36	.03	.19	6	1
JC-93-K-4 ✓	3	72	12	73	.3	13	13	284	4.11	2	5	ND	2	67	.3	2	2	105	.82	.024	5	35	1.08	171	.14	2	3.80	.10	.15	1	7
✓JC-93-K-13 ✓	3	71	15	49	.4	5	5	319	3.48	28	5	ND	9	37	.8	2	2	43	.40	.046	22	13	.56	255	.09	2	2.00	.01	.12	1	10
✓JC-93-K-14 ✓	2	42	12	41	.2	4	2	201	4.31	34	5	ND	9	32	.2	2	2	39	.36	.049	19	12	.47	219	.08	2	1.62	.01	.09	1	15

Samples with ✓ mark are prepared -35 mesh.

JC Series are silts.

084-005

GEOCHEMICAL ANALYSIS CERTIFICATE

Multi-element ICP Analysis - .500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with Water. This leach is partial for Mn, Fe, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K and Al. Detection Limit for Au is 3 ppm.
 *Au Analysis- 10 gram sample is digested with aqua regia, MIBK extracted, graphite furnace AA finished to 1 ppb detection.

Analyst RSAm
 Report No. 9320553
 Date: August 06, 1993

EASTFIELD RESOURCES LTD.

Project:
 Sample Type: Rocks

ELEMENT SAMPLE	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
JC-93-A31	13	13	16	43	.5	3	9	276	4.71	406	5	ND	4	31	3.1	2	26	39	.34	.038	7	52	.68	180	.09	7	1.15	.07	.29	1	120
JC-93-A32	9	16	9	10	.2	3	2	43	1.74	25	5	ND	11	9	.2	2	2	3	.03	.009	23	75	.04	320	.01	3	.43	.01	.22	1	195
JC-93-A33	5	7	13	14	.3	5	4	38	3.19	17	5	ND	10	16	.2	2	2	3	.02	.009	19	77	.05	50	.01	2	.46	.01	.28	1	8
JC-93-A34	4	7	10	13	.1	3	5	525	1.18	10	5	ND	10	6	.2	2	2	4	.01	.008	23	94	.02	144	.01	10	.33	.01	.20	1	12
JC-93-A35	5	2	5	7	.1	7	6	24	2.08	20	5	ND	9	8	.2	2	2	3	.01	.009	21	75	.03	71	.01	2	.40	.01	.26	1	40
JC-93-A36	13	14	9	20	.1	3	1	52	1.07	5	5	ND	4	6	.2	2	2	4	.03	.005	8	96	.03	130	.01	2	.40	.01	.22	1	5
JC-93-A37	10	24	19	35	.1	2	1	58	1.34	5	5	ND	10	12	.2	2	2	3	.04	.013	33	65	.05	131	.01	2	.48	.01	.28	1	105
JC-93-A38	5	3	18	17	.1	2	1	20	.29	4	5	ND	4	4	.2	2	2	2	.02	.003	11	69	.02	98	.01	7	.37	.01	.23	1	31
JC-93-A39	4	5	11	13	.1	3	1	26	1.42	33	5	ND	5	18	.2	2	2	2	.01	.004	5	90	.02	292	.01	3	.30	.01	.21	1	23
JC-93-A40	5	11	75	28	.1	3	2	49	1.47	9	5	ND	22	16	.2	2	2	2	.04	.014	33	87	.02	102	.01	2	.36	.05	.24	1	19
JC-93-A42	5	13	37	56	.2	2	1	29	2.56	34	5	ND	3	7	.2	2	2	3	.05	.005	2	90	.03	511	.01	15	.30	.01	.19	1	64
JC-93-K17	6	24	22	22	.1	3	7	41	2.77	63	5	ND	9	7	.5	2	2	4	.05	.008	13	73	.04	33	.01	2	.46	.01	.24	1	80
JC-93-K18	11	14	16	21	.1	2	1	28	1.33	49	5	ND	10	13	.2	4	2	4	.02	.006	25	90	.02	140	.01	2	.39	.01	.22	1	85
JC-93-K19	516	26	49	10	.1	3	1	57	1.83	24	5	ND	9	22	.2	6	2	3	.01	.009	16	102	.02	166	.01	2	.30	.01	.23	1	50
JC-93-K20	13	28	46	27	4.8	3	4	376	2.34	54	5	ND	5	17	.2	3	2	8	.02	.016	27	64	.02	938	.01	2	.38	.01	.21	1	29
JC-93-K21	4	5	54	172	.1	6	9	954	3.47	49	5	ND	7	38	.4	6	2	21	1.40	.024	14	44	.44	658	.01	2	.54	.01	.17	1	3
JC-93-K22	26	344	15	40	.3	4	4	174	2.35	11	5	ND	25	16	.2	2	2	25	.07	.016	17	62	.08	92	.01	2	.55	.02	.20	1	180
Cutfinger	7	10	39	155	.6	4	4	73	1.38	39	5	ND	2	29	.2	2	2	10	.32	.024	3	93	.05	84	.05	2	.77	.03	.42	1	5

Ana = 11
 Koffee = 6
 Cutfinger = 1

GEOCHEMICAL ANALYSIS CERTIFICATE

EASTFIELD RESOURCES LTD.

Multi-element ICP Analysis - .500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with Water. This leach is partial for Mn, Fe, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K and Al. Detection Limit for Au is 3 ppm. *Au Analysis- 10 gram sample is digested with aqua regia, MIBK extracted, graphite furnace AA finished to 1 ppb detection.

Analyst RSam
Report No. 9330556
Date: August 12, 1993

Project:
Sample Type: Soils/Rocks

Table with columns: ELEMENT, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Au*. Rows list various sample IDs and their corresponding element concentrations in ppm and ppb.

Aaa = 29 Koffee = 11 Nice = 20

009-005

G E O C H E M I C A L A N A L Y S I S C E R T I F I C A T E

EASTFIELD RESOURCES LTD.

Multi-element ICP Analysis - .500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with Water. This leach is partial for Mn, Fe, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K and Al. Detection Limit for Au is 3 ppm.

Analyst RS
Report No. 9330569
Date: August 31, 1993

Project:

Sample Type: Soils/Rocks

*Au Analysis- 10 gram sample is digested with aqua regia, MIBK extracted, graphite furnace AA finished to 1 ppb detection.

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
SAMPLE	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
8400W+9575N	3	16	19	86	.2	15	8	338	2.43	16	5	ND	10	42	.2	2	2	49	.63	.054	14	26	.63	187	.12	2	1.65	.02	.07	2	3
8400W+9650N	4	16	17	79	.1	15	9	544	2.80	21	5	ND	8	40	.2	2	2	54	.63	.063	14	27	.64	164	.13	2	1.60	.02	.08	1	55
8400W+9725N	7	13	25	85	.3	14	7	302	2.62	22	5	ND	8	38	.2	2	2	50	.58	.048	13	25	.61	206	.10	2	1.82	.02	.05	1	9
8400W+9800N	11	24	40	122	.6	18	11	986	3.34	43	8	ND	6	58	.3	2	2	58	.79	.061	36	29	.62	328	.08	2	2.28	.02	.08	1	1
8400W+9875N	9	18	32	121	.7	17	13	1694	3.39	42	5	ND	7	29	.7	2	2	59	.40	.043	17	25	.63	223	.10	2	1.91	.02	.10	1	6
8400W+9950N	12	22	39	143	.6	16	10	889	3.28	61	5	ND	7	49	.5	3	2	56	.71	.058	22	26	.59	256	.08	3	1.99	.02	.09	1	3
9800W+12100N K	1	33	139	726	2.0	20	8	792	3.31	654	5	ND	2	56	2.0	16	2	47	.81	.078	50	30	.63	187	.07	2	2.14	.02	.10	1	28
9800W+12175N	1	23	141	284	.5	16	10	807	2.98	221	5	ND	8	27	1.1	10	2	47	.35	.043	29	25	.48	116	.10	3	1.57	.02	.06	1	40
9800W+12250N	1	29	114	248	.7	19	11	1108	3.82	379	5	ND	10	30	1.2	10	2	48	.35	.032	25	26	.58	131	.08	2	1.73	.01	.10	1	33
9800W+12325N	2	28	383	388	3.0	18	8	823	3.91	734	5	ND	4	34	1.3	10	3	50	.40	.065	31	28	.42	178	.05	3	1.94	.01	.12	1	25
9800W+12400N	2	20	310	134	3.4	9	7	1401	1.85	262	5	ND	2	27	1.8	4	3	36	.29	.061	33	16	.10	95	.03	2	1.05	.02	.05	1	24
9800W+12475N	3	31	133	255	1.3	19	13	1143	4.13	765	5	ND	2	35	1.8	5	2	62	.44	.071	18	30	.43	149	.06	3	2.16	.01	.10	1	9
10200W+12100N	1	26	63	147	.4	21	11	765	3.49	155	5	ND	5	24	.4	9	2	57	.32	.056	25	29	.66	117	.12	2	1.96	.02	.11	1	6
10200W+12175N	4	27	99	154	1.0	14	10	931	2.58	284	5	ND	2	50	1.5	23	2	45	.67	.113	16	20	.18	131	.05	2	.99	.02	.10	1	1
10200W+12250N	2	18	28	87	.3	13	7	547	2.83	93	5	ND	2	24	.3	3	2	54	.23	.042	9	21	.35	85	.09	2	1.20	.02	.06	1	3
10200W+12325N	1	25	35	86	.1	22	10	481	3.42	67	5	ND	2	21	.2	8	2	59	.22	.039	11	30	.60	96	.10	3	1.92	.01	.06	1	1
10200W+12400N	1	37	137	333	1.0	22	11	1461	4.04	1026	5	ND	2	57	1.0	44	2	49	.90	.090	39	31	.66	223	.05	3	2.41	.01	.12	1	36
10200W+12475N	1	24	74	224	.8	19	9	887	3.41	655	5	ND	5	29	.5	23	2	47	.31	.048	17	27	.60	112	.07	2	1.81	.01	.10	1	27
JC93 K-24	3	28	67	27	3.1	5	5	100	2.52	30	5	ND	9	30	.4	5	2	11	.05	.024	25	53	.04	1523	.01	2	.58	.01	.30	1	17
JC93 K-25	4	20	12	48	.1	5	7	448	2.69	17	5	ND	7	27	.2	2	2	44	.37	.034	9	60	.43	181	.08	2	1.16	.07	.15	2	20
JC93 A-54 Ana	21	42	53	244	.2	7	19	2515	5.04	77	21	ND	19	9	.6	6	4	34	.12	.029	53	48	.03	472	.01	3	.66	.01	.25	4	1
JC93 A-55	7	23	26	198	.2	8	7	2201	2.58	21	5	ND	19	23	.7	3	2	39	.27	.030	27	55	.20	465	.07	2	1.05	.05	.33	1	1

Ana = 2 Kober = 14 Atec = 6

KOFFEE ROCK SAMPLE DESCRIPTIONS

<u>Sample No.</u>	<u>Location</u>	<u>Rock Type</u>	<u>Description</u>	<u>Geochem</u> <u>(Cu/Au/Mo)</u> <u>(ppm/ppb/ppm)</u>
JC-K-1	L10500W/ 10900N	Quartz Diorite	Fined grained white to pale brown with rounded quartz grains in aphanitic matrix, weak to moderate clay alteration of matrix; 0.5 cm vuggy quartz vein and pervasive hairline quartz fractures, limonitic fracture. Patchy and disseminated pyrite very fine grained trace -1%.	25/49/6
JC-K-2	L10550W/ 10800N	Latite	Very fine grained beige to pale brown, limonitic on fractured faces; weak clay alteration. 1-3% fine grained disseminated pyrite.	20/1/5
JC-K-3	L10550W/ 10800N	Diorite	Fine grained dark green weakly foliated. Trace -2% pyrite, magnetite.	37/1/3
JC-K-4	Approx. L12400W/ 11000N	Silt	From small seep on the nose of the hill at west side of property granitic float in seep.	
JC-K-5	Approx. L12350W 11350N	Quartz- Monzonite	Limonitic graphic texture quartz-monzonite mod. sericitic, weak clay, locally siliceous. No visible sulfides.	14/1/5
JC-K-6	L12500W/ 11600N	Grano- Diorite	Coarse grained with minor epidote Contains 20 cm porphyritic diorite dyke. 5-10% disseminated and stringer pyrite. Approximately 5% very fine grained pyrite.	51/7/3
JC-K-7	L12000W/ 11700N	Quartz- Diorite	Pervasively fractured bleached and limonitic with quartz veins up to 4 cm wide - vuggy, moderate clay alteration of feldspar. 5-15% pyrite as disseminations, blebs and veinlets.	37/91/7
JC-K-8	L11900W/ 11700N	Grano- diorite	Limonitic but generally fresh. 3-5% pyrite predominantly on fracture faces - minor disseminated - trace chalcopyrite.	56/4/6

KOFFEE ROCK SAMPLE DESCRIPTIONS

Page 2

<u>Sample No.</u>	<u>Location</u>	<u>Rock Type</u>	<u>Description</u>	Geochem
				(Cu/Au/Mo) (ppm/ppb/ppm)
JC-K-9	L11800W/ 11750N	Quartz Diorite	Probably originally quartz-monzonite, pale yellow to orange colour, extensively fractured and quartz veined, hairline to 5 mm, locally silicified strongly bleached - moderate to strong clay alteration. 5-15% pyrite as veins, disseminations and blebs fine grain to coarse grain, trace hematite.	18/89/4
JC-K-10	L10250W/ 12800N	Quartz Diorite	Pervasively bleached, clay/sericite altered, strongly limonitic with occasional boxwork texture, small fragments from frost leave. Trace to 3% pyrite, trace chalcopyrite.	24/18/12
JC-K-11	L10600W/ 12800N	Quartz Diorite	As in K-10 but locally weakly silicified subcrop. No visible sulphides.	11/52/23
JC-K-12	L11500W/ 12450N	Plagioclase/ sericite rock	As in K-10 but more intensely altered and limonitic. No visible sulphides.	37/2/7
JC-K-15	L11900W/ 11750N	Intrusive Breccia	Boulder with angular diorite and gneiss fragments up to 20 cm in granodiorite matrix. No visible sulphides.	32/18/3
JC-K-16	L11600W/ 11700N	Breccia	Quartz-limonite-sericite-clay rock vuggy quartz veins up to 1.5 cm wide. No visible sulphides.	18/280/7
JC-K-17	L10225W/ 11750N	Quartz Diorite	Inequigranular, bleached, weakly silicious and sericitic - small fragments in frost heave have weak clay alteration. Trace -2% very fine grained disseminated pyrite.	24/80/6
JC-K-18	L10800W/ 12300N	Quartz Diorite	As in K-17 with limonitic hairline quartz veinlets and extensive boxwork texture, clay/sericite alteration more intense. Trace pyrite.	14/85/11
JC-K-19	L10820W/ 12100N	Quartz Diorite	Silicified fragments in a moderate to strong clay/sericite altered matrix, strongly fractured and limonitic, minor boxwork texture. Trace pyrite.	26/50/516

KOFFEE ROCK SAMPLE DESCRIPTIONS

Page 3

<u>Sample No.</u>	<u>Location</u>	<u>Rock Type</u>	<u>Description</u>	<u>Geochem</u> <u>(Cu/Au/Mo)</u> <u>(ppm/ppb/ppm)</u>
JC-K-20	L10300W/ 11020W	Quartz Diorite	Moderate clay alteration, strongly limonitic esp along vuggy fracture biotite altered to ragged muscovite feldspar all a grey white mass. Trace -1% pyrite.	28/29/13
JC-K-21	Approx. L10400W/ 10000N	Quartz- Monzonite	1-2 cm oxidized rind on all fragments, moderately silicified and clay altered, extensive hairline quartz + tourmaline veinlets. Trace -2% disseminated pyrite.	5/3/4
JC-K-22	L10600W/ 11575N	Quartz- Monzonite	As in K-21. Trace pyrite.	344/180/26
JC-K-23	L10600W/ 11575N	Soil	Oxidized grano-diorite/ quartz monzonite regolith.	2327/36/72
JC-K-24	L10600W/ 11350N	Quartz Diorite	Traces of pyrite, limonite fractures and pits. Intense phyllic alteration.	28/17/3
JC-K-25	L10600W 11350N	Quartz Diorite	Decomposed regolith material as in K-24.	20/20/4

APPENDIX 6

PETROGRAPHIC REPORTS

J. PAYNE
VANCOUVER PETROGRAPHICS LTD.



Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V3A 4P9
PHONE (604) 888-1323 • FAX (604) 888-3642

Report for: Jim Chapman,
Eastfield Resources Ltd.,
110 - 325 Howe Street
VANCOUVER, B.C., V6C 1Z7

Job 930601
October 1993

Samples: A-1: 67.3, 123.0, 140.5
A-2: 49.0, 91.8
A-3: 69.3, 110.7, 151.4
A-5: 12.2, 68.3, 83.2, 93.0, 128.1, 151.4
A-6: 34.0, 67.8, 85.5, 93.7, 119.4, 151.4
Koffee: 1, 9, 9S, 11, 12, 19, 20, K-1 - 46.5

Summary:

Samples are grouped as follows and are correlated with major rock types at the Casino deposit several km to the east. The alteration zone (from the porphyry model) is indicated. Many rocks are altered strongly and the original mineralogy of some of the alteration intergrowths is uncertain.

A: Yukon Group Metamorphic Rocks

Quartz-feldspar gneiss and quartzite, weak to strong foliation.

A-1	123.0		(phyllic/propylitic)
A-2	91.8	quartzite	(phyllic)
A-5	83.2	gneiss	(phyllic)

B: Early Metamorphosed Plutonic Rocks (pre-Dawson Range Batholith)

Rocks have a weak to moderate foliation and a recrystallized texture. They represent early intrusive rocks which were metamorphosed prior to intrusion of the Dawson Range Batholith.

A-1	67.3	silicified	(phyllic)
A-1	140.5	granite	(propylitic)
A-2	49.0	granodiorite	(propylitic/phyllic)
A-4	110.7	granodiorite	(phyllic)
A-5	93.0	quartz diorite	(phyllic)
A-6	67.0	quartz diorite	(phyllic)

(continued)



C: Dawson Range Batholith

Quartz diorite to quartz monzonite varieties of Dawson Range Batholith. Quartz monzonite may correlate with quartz monzonite intrusion at Casino.

A-4 69.3	quartz monzonite	(weak phyllic)
A-4 151	granodiorite	(propylitic)
A-5 68.3	quartz diorite	(phyllic + tourmaline)
Koffee 1	quartz diorite	(phyllic)
Koffee 9	quartz diorite	(phyllic/argillic)
Koffee 9S	quartz diorite	(argillic/phyllic)
Koffee 11	quartz diorite	(phyllic/propylitic)
Koffee 12	? quartz diorite	(phyllic + tourmaline vein)
Koffee 19	quartz diorite	(phyllic)
Koffee 20	quartz diorite	(phyllic)

D: Patton Porphyry

Rocks with plagioclase and biotite phenocrysts in very fine grained groundmass; similar to Patton Porphyry at Casino.

A-6 85.5	plagioclase, biotite	(propylitic)
A-6 93.7	plagioclase, biotite, hornblende	(very weak propylitic)
K-1 46.5	plagioclase, biotite	(fresh)

E: Porphyritic Dacite

This rock type is similar to the porphyritic latite/dacite at Casino which is later than the main stage of porphyry mineralization. Minerals listed form over 1% phenocrysts. Some samples grade texturally into Patton Porphyry of Group D.

A-5 12.2	plagioclase, quartz	(phyllic)
A-5 128.1	quartz	(phyllic)
A-5 151.4	plagioclase	(potassic/phyllic-propylitic)
A-6 34.0	plagioclase, biotite	(phyllic)
A-6 119.4	plagioclase, biotite, quartz	(phyllic/argillic)
A-6 151.4	plagioclase, biotite, quartz	(argillic)



John G. Payne
Tel: (604)-986-2928
Fax: (604)-983-3318

Phenocrysts of plagioclase and biotite are set in a groundmass dominated by plagioclase and quartz, with minor K-feldspar and biotite. Plagioclase is altered slightly to sericite-biotite, and biotite is fresh. A few inclusions of very fine grained diorite consist of plagioclase-biotite intergrowths.

phenocrysts			
plagioclase	15-20%		
biotite	3- 4		
groundmass			
plagioclase	40-45	pyrite	0.3%
quartz	20-25	epidote	trace
K-feldspar	4- 5	apatite	trace
biotite	3- 4	zircon	trace
diorite inclusions	0.3		
replacement/interstitial patches			
quartz	1- 2		
pyrite	0.2		

Plagioclase forms euhedral to subhedral phenocrysts averaging 0.5-2 mm in size and a few up to 5 mm across. Grains show compositional growth zoning from more-calcic cores to more-sodic rims. Alteration is slight to locally moderate along irregular fractures to extremely fine grained sericite and biotite. Many grains contain a narrow growth zone near the margin which is altered strongly to sericite. A few grains contain moderately abundant disseminated biotite flakes averaging 0.01-0.02 mm in size.

Biotite forms equant phenocrysts averaging 0.3-1 mm in size. Pleochroism is for pale to medium brown. A few patches up to 1.5 mm in size are dominated by very fine grained biotite with interstitial quartz and plagioclase; these may be secondary after hornblende phenocrysts.

In the groundmass, plagioclase forms anhedral grains averaging 0.05-0.2 mm in size. Alteration is slight to locally moderate to extremely fine grained sericite and biotite.

Quartz forms equant grains averaging 0.02-0.05 mm in size. Biotite forms disseminated flakes and clusters of flakes averaging 0.05-0.07 mm in size. A few grains contain a patch of epidote up to 0.2 mm long. K-feldspar forms interstitial grains averaging 0.01-0.02 mm in size.

Pyrite forms lenses up to 0.15 mm long and anhedral grains averaging 0.05-0.15 mm in size. Adjacent to one pyrite grain is an irregular patch of epidote up to 0.07 mm in size.

Apatite forms anhedral grains averaging 0.1 mm in size. Zircon forms equant, subhedral to euhedral grains averaging 0.05 mm in size. Epidote forms a few patches up to 0.1 mm in size.

A few patches up to 1.5 mm in size consist of intergrowths of extremely fine grained plagioclase and biotite; these may represent inclusions of metamorphosed very fine grained diorite. One contains two grains of zircon up to 0.1 mm long

Quartz forms interstitial patches up to 1.5 mm in size of grains averaging 0.2-0.4 mm in size. Some of these patches contain a few equant pyrite grains averaging 0.2-0.4 mm in size.

Sample Koffee 1

Altered Fine/Medium Grained Quartz Diorite
(Phyllic Alteration);
Quartz-Sericite Vein, Quartz Veinlets;
Limonite Alteration and Veinlets

The rock consists of plagioclase (altered to sericite) and quartz, with minor biotite (altered to muscovite-sericite-Ti-oxide) and hornblende(?) (altered to sericite-Ti-oxide). An early vein is of quartz-sericite and a few veinlets are of quartz. Limonite forms irregular replacement patches and a few late veinlets.

plagioclase/sericite	60-65%
quartz	12-15
biotite	5- 7
hornblende(?)	4- 5
limonite	3- 4
Ti-oxide	1- 2
pyrite	0.2
zircon	trace
veins, veinlets	
quartz-sericite	3- 4
quartz	0.2
limonite	2- 3

Plagioclase forms patches up to a few mm across; it is altered to extremely fine grained sericite.

Quartz forms grains averaging 0.2-0.5 mm in size and a few up to 1.5 mm across. Many show slightly to moderately strained extinction.

Biotite forms disseminated flakes averaging 0.3-0.7 mm in size. Alteration is complete to pseudomorphic muscovite, unoriented sericite, and moderately abundant patches of Ti-oxide.

Many sericite-rich patches contain minor to moderately abundant, disseminated Ti-oxide grains in random orientation; some of these may be secondary after hornblende. Others may be secondary after plagioclase or biotite.

Ti-oxide forms disseminated patches averaging 0.02-0.05 mm in size and a few up to 0.4 mm long.

Pyrite forms anhedral grains averaging 0.1-0.25 mm in size. Alteration is complete to reddish orange limonite/hematite.

Zircon forms minor prismatic grains up to 0.3 mm long.

Limonite forms widespread, late alteration, especially in sericite, which give sericite a light to medium yellow color. Much of the alteration is associated with limonite veinlets.

An early vein up to 2 mm wide is of medium to coarse grained quartz with patches up to 2 mm across of cryptocrystalline sericite. Quartz grains are strained moderately.

A few subparallel veinlets averaging 0.05-0.08 mm wide are of very fine grained quartz with minor pyrite/limonite.

Several late veinlets averaging 0.02-0.05 mm wide are of semi-opaque to reddish orange limonite/hematite.

Sample Koffee 9 Potassic Biotite Quartz Diorite
(Phyllic/Argillic Alteration)

The rock is a medium to coarse grained, potassic biotite quartz diorite dominated by plagioclase with less abundant quartz, biotite, and K-feldspar. Alteration of plagioclase is to kaolinite-sericite, and of biotite to muscovite-(Ti-oxide)-quartz). One lensy patch contains very fine grained quartz with interstitial, altered plagioclase. A vein is of quartz-pyrite. Veinlets are of quartz and of limonite.

plagioclase	55-60%	pyrite	2- 3%
quartz	20-25	Ti-oxide	minor
biotite	5- 7	zircon	trace
K-feldspar	3- 4		
finer grained patch	1		
vein, veinlets			
pyrite-quartz-(muscovite-K-feldspar)	4- 5		
quartz	0.3		
limonite	0.1		

Plagioclase forms subhedral to anhedral grains averaging 0.7-2 mm in size. Alteration is complete to extremely fine grained sericite and cryptocrystalline kaolinite. The relative abundances of the alteration minerals varies widely. A few patches of extremely fine grained quartz-sericite may also be secondary after plagioclase grains.

Quartz forms anhedral grains averaging 0.5-1.5 mm in size with slightly sutured grain borders and slightly to locally moderately wavy extinction.

Biotite forms equant to elongate flakes averaging 1-1.5 mm in size. A few are concentrated in one cluster up to 3 mm across. Alteration is to pseudomorphic muscovite and minor to moderately abundant disseminated Ti-oxide. Some grains contain moderately abundant lenses of quartz parallel to cleavage.

K-feldspar forms grains averaging 0.5-1.7 mm in size. Alteration is slight along fractures to sericite-kaolinite.

Pyrite forms disseminated anhedral grains and clusters of grains averaging 0.2-0.5 mm in size.

Ti-oxide forms disseminated, anhedral to subhedral grains averaging 0.05-0.08 mm in size.

Zircon forms anhedral to subhedral grains averaging 0.03-0.07 mm in size.

A lensy patch up to 2 mm long contains anhedral quartz grains averaging 0.03-0.15 mm in size with minor to moderately abundant interstitial, extremely fine grained plagioclase altered to sericite-(Ti-oxide). It may have formed by weak cataclastic deformation.

A vein averaging 0.5-1 mm wide is of fine to medium grained quartz and pyrite, with minor K-feldspar along one margin and minor patches of subradiating muscovite. Another vein of similar size is of extremely fine grained quartz and fine to medium grained pyrite. Some pyrite grains are fractured strongly.

A discontinuous veinlet up to 0.15 mm wide is of very fine grained quartz.

A late wispy veinlet 0.02-0.05 mm wide is of cryptocrystalline limonite.

Sample Koffee 9S

Potassic Biotite Quartz Diorite;
(Argillic/Phyllic Alteration);
Quartz Replacement Patches, Veinlets

The sample is a medium grained potassic biotite quartz diorite in which plagioclase is altered completely to extremely fine grained plagioclase with minor patches of kaolinite and sericite, and biotite is replaced by quartz-sericite-(Ti-oxide). Veinlets and replacement patches are of quartz.

plagioclase	65-70%
quartz	15-20
K-feldspar	3- 4
biotite	3- 4
pyrite	0.5
patches, veinlets	
quartz	4- 5
limonite	minor

Plagioclase forms anhedral grains averaging 1-2 mm in size. It is replaced completely by cryptocrystalline to extremely fine grained secondary plagioclase(?) which has a cherty texture. However, the etching of the offcut block shows that it is plagioclase. Sericite forms wispy patches and disseminated, extremely fine grains. Kaolinite forms patches averaging 0.05-0.2 mm in size of cryptocrystalline grains.

Quartz forms patches up to a few mm across of anhedral grains averaging 0.5-1 mm in size. Extinction is slightly to moderately wavy.

Biotite forms equant flakes averaging 0.5-1.2 mm in size and a few up to 1.7 mm across. Original alteration was complete to pseudomorphic sericite/muscovite with abundant Ti-oxide. In many grains, sericite/muscovite was replaced in large part by equant quartz grains averaging 0.02-0.03 mm in size. One biotite grain also contains abundant euhedral pyrite grains averaging 0.02-0.1 mm in size.

K-feldspar forms anhedral to subhedral grains averaging 0.3-1 mm in size. Alteration is slight to moderate, mainly on fractures, to cryptocrystalline kaolinite/sericite and minor Ti-oxide.

Opaque (pyrite?) forms lenses up to 1 mm long of extremely fine grains. Pyrite also forms disseminated euhedral grains averaging 0.05-0.1 mm in size and a few clusters of subhedral to anhedral grains averaging 0.3-0.5 mm in size.

Zircon forms anhedral to subhedral, equant to stubby prismatic grains averaging 0.03-0.07 mm in size associated with biotite.

Lensy patches averaging 0.3-1 mm in size and discontinuous veinlets averaging 0.1-0.2 mm wide are of very fine grained quartz. A few cavities up to 1.5 mm across are lined with subhedrally to euhedrally terminated quartz grains averaging 0.05-0.08 mm in size.

A late branching veinlet averaging 0.03-0.05 mm wide is of cryptocrystalline limonite.

Sample Koffee 11Biotite Quartz Diorite
(Phyllic/Propylitic Alteration)

The sample is a fine to coarse grained biotite quartz diorite in which plagioclase was replaced strongly by sericite-(quartz-chlorite?), and biotite was replaced completely by muscovite-(sericite-chlorite?-Ti-oxide). Veinlets are of quartz and of limonite.

plagioclase	55-60%
quartz	30-35
biotite	2- 3
chlorite(?)	2- 3
pyrite/limonite	1
Mineral X	minor
zircon	trace
vein, veinlets	
quartz	2- 3
limonite	0.1

Plagioclase forms anhedral grains averaging 0.3-1 mm in size. Alteration is complete to extremely fine grained sericite and minor to moderately abundant patches of very fine to extremely fine grained quartz.

Quartz forms anhedral grains averaging 0.3-1.5 mm in size and several up to 3 mm across. Extinction is strained slightly to moderately.

Biotite forms equant flakes up to 1.7 mm in size. Alteration is complete to pseudomorphic muscovite, patches of unoriented sericite and/or chlorite(?), and lenses of Ti-oxide parallel to cleavage.

Chlorite(?) forms ragged patches in part associated with sericite after plagioclase, and in part in altered biotite. It is light brown in color, cryptocrystalline to extremely fine grained, and has very low birefringence.

Pyrite forms equant grains averaging 0.1-0.2 mm in size; alteration is complete to orange limonite.

Two adjacent prismatic grains up to 1 mm long of Mineral X are replaced strongly by sericite. Grains have moderate relief and low birefringence, with parallel extinction parallel to a prismatic cleavage. Optical properties are somewhat similar to those of zoisite.

Zircon forms subhedral to euhedral prismatic grains up to 0.1 mm long.

An early vein averaging 1 mm wide is of medium to coarse grained quartz. Textures of quartz in the vein are similar to those of quartz in the host rock. A veinlet 0.03-0.05 mm wide is of extremely fine grained, slightly interlocking quartz.

A late veinlet 0.01-0.03 mm wide is of limonite.

Sample Koffee 12Altered Rock (Sericite-Quartz)
Vein of Tourmaline with halo of
Quartz-Sericite/Muscovite-Limonite
(Phyllic Alteration)

The rock was altered strongly and original textures were destroyed. It is dominated by sericite with less abundant quartz, probably mainly after plagioclase. At one end is a tourmaline vein with a halo of quartz-muscovite-limonite.

sericite	50-55%
quartz	15-17
pyrite	1- 2
leucoxene	0.3
zircon	trace
vein	
1) tourmaline	2- 3
halo	
quartz	7- 8
sericite/muscovite	7- 8
pyrite/limonite	2- 3
quartz	0.3

Sericite/(muscovite) forms scattered extremely fine to very fine grained patches, which are secondary after plagioclase. More common are intergrowths of very fine grained quartz-sericite in widely varying proportions; these probably also are secondary after plagioclase.

Quartz forms scattered anhedral grains averaging 0.3-0.8 mm in size. Extinction is slightly to moderately strained.

Pyrite forms single grains and clusters of subhedral grains averaging 0.2-0.5 mm in grain size; alteration is complete to reddish orange limonite. Surrounding these patches, sericite commonly is stained light to medium yellow by limonite. Pyrite is concentrated moderately in the alteration halo surrounding the tourmaline vein.

Leucoxene forms patches up to 0.4 mm in size of very fine grained aggregates. Ti-oxide forms subhedral grains averaging 0.07-0.1 mm in size and is concentrated in patches up to 0.5 mm in size as grains averaging 0.01-0.02 mm in size intergrown with sericite. The latter may represent altered mafic grains; however, only locally are original grain borders recognizable. One such patch is an elongate grain 0.8 mm long which may represent original hornblende.

Zircon forms a euhedral prismatic grain 0.15 mm long.

A veinlet 0.1-0.15 mm wide of very fine grained quartz is cut by a lens of very fine grained sericite.

At one end of the section is a veinlet containing radiating suns of acicular, pale green tourmaline, in which single grains average 0.4-0.7 mm long. It has a halo up to a few mm wide containing patches of fine to medium grained quartz, moderately abundant pyrite, and abundant patches of sericite, stained medium yellow by limonite. In places, radiating tourmaline suns extend well into quartz grains, and some acicular tourmaline grains occur outwards from the suns enclosed in quartz.

Limonite forms irregular patches at the end of the section containing the tourmaline vein.

Sample Koffee 19

Medium Grained Biotite Quartz Diorite
(Phyllic Alteration)

The sample is dominated by fine to medium grained quartz and plagioclase (altered to sericite-[quartz]), with much less biotite (altered to muscovite-quartz-(Ti-oxide) and minor pyrite. Grain borders of plagioclase were made diffuse during alteration. A vein at one side of the section is of limonite/hematite (probably after pyrite).

quartz	55-60%
plagioclase	30-35
biotite	4- 5
pyrite	1
Ti-oxide	trace
zircon	trace

Quartz forms anhedral grains averaging 0.5-2 mm in size. Extinction is slightly to moderately strained. Some grains contain minor to moderately abundant sericite.

Plagioclase forms patches averaging 0.3-0.8 mm in size and a few up to 1.7 mm across. Alteration is complete to extremely fine grained sericite and minor quartz. Some grains contain minor to moderately abundant limonite intergrown with sericite. The abundance of quartz in the section and the diffuse borders of plagioclase patches suggests that some quartz was added to the rock during alteration.

Biotite forms flakes up to 1.7 mm in size. Alteration is complete to pseudomorphic muscovite with patches of quartz and moderately abundant disseminated Ti-oxide and, locally, limonite. Limonite may be secondary after ankerite.

Pyrite forms disseminated grains averaging 0.1-0.15 mm in size; alteration is strong to complete to dark orange to reddish orange limonite/hematite. A few patches averaging 0.7-1 mm across appear to be of cubic pyrite grains which were replaced by limonite and the limonite almost entirely leached from the rock (either during weathering or sample preparation).

Ti-oxide forms disseminated patches up to 0.03 mm in size and a few clusters up to 0.1 mm in size containing abundant grains averaging 0.01-0.02 mm in size.

Zircon forms prismatic grains averaging 0.05-0.1 mm in length, and an acicular grain 0.15 mm long.

Sample Koffee 20

Hornblende-Biotite Quartz Diorite
(Phyllic Alteration)

The rock consists of medium to coarse grained plagioclase, quartz, and less abundant hornblende and biotite. Alteration of plagioclase is mainly to sericite, hornblende is replaced by sericite-(Ti-oxide) and biotite is replaced by muscovite-(Ti-oxide). Limonite forms abundant replacement patches and veinlets.

plagioclase	50-55%
quartz	20-25
hornblende	10-12
biotite	5- 7
pyrite	0.5
limonite	3- 4
veinlets	
limonite/hematite	2

Plagioclase forms subhedral grains averaging 1-2 mm in size. Alteration in some grains is complete to extremely fine grained sericite with moderately abundant yellow limonite. Some plagioclase-rich patches consist of extremely fine to very fine grained aggregates altered moderately to sericite-(limonite). A few patches are replaced by fine grained quartz containing moderately abundant disseminated very fine grains of sericite/muscovite.

Quartz forms anhedral patches up to 3 mm in size of grains averaging 0.5-1.5 mm in size. Extinction commonly is moderately strained. Some patches have strongly sutured grain borders.

Hornblende(?) form subhedral prismatic grains up to 5 mm long. Alteration is complete to extremely fine grained sericite with moderately abundant disseminated Ti-oxide and limonite.

Biotite forms equant to elongate grains averaging 1-1.5 mm in size and locally up to 2 mm across. Alteration is complete to very fine grained, in part pseudomorphic muscovite with moderately abundant Ti-oxide and limonite.

Pyrite forms disseminated grains averaging 0.1-0.3 mm in size. Alteration is complete to red-orange limonite-hematite.

A few veinlets up to 0.1 mm wide are of orange-red limonite/hematite. At one end of the section is a veinlet 0.1-0.2 mm wide with a border zone of quartz and a core of limonite/hematite (after pyrite). Limonite alteration of the rock is strongest near the limonite veinlets.

APPENDIX 7
GEOPHYSICAL REPORTS
SCOTT GEOPHYSICS

GEOPHYSICAL REPORT
INDUCED POLARIZATION AND MAGNETOMETER SURVEYS

KOFFEE PROPERTY
CASINO AREA, YUKON

on behalf of

EASTFIELD RESOURCES LTD.
110 - 325 Howe Street
Vancouver, B.C. V6C 1Z7

Field work completed: July 7 to 12, 1993

by

Alan Scott, Geophysicist
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

December 10, 1993

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Maps accompanying report	
Stacked IP/resistivity pseudosections	map roll
Chargeability contour plan	map roll
Resistivity contour plan	map roll
Magnetometer contour plan	map roll

1. INTRODUCTION

Induced polarization/resistivity and magnetometer surveys were performed on the Koffee Property, Casino Area, Yukon, in the period July 7 to 12, 1993. The surveys were conducted by Scott Geophysics Ltd. on behalf of Eastfield Resources Ltd.

The induced polarization survey was of a reconnaissance nature, with an interline spacing of 800 meters. The magnetometer survey included intermediate lines.

The pole dipole array was used for the induced polarization survey, with an "a" spacing of 75 meters and "n" separations of 1, 2, 3, and 4. The current electrode was to the south of the receiving electrodes on all survey lines.

Magnetometer readings were taken at 25 meter intervals and all values were corrected for diurnal variation with reference to a fixed base station.

This report describes the instrumentation and procedures and presents the results of those surveys.

2. SURVEY LOCATION AND COVERAGE

The Koffee Property is located west of the Casino Property, Yukon.

Induced polarization survey coverage totalled 10.0 kms and magnetometer survey coverage totalled 18.0 kms.

3. PERSONNEL

Eric Hards, geophysicist, was the party chief on the survey, on behalf of Scott Geophysics.

Jim Chapman, geologist, was the Eastfield representative on site for the duration of the project.

4. INSTRUMENTATION AND PROCEDURES

A Scintrex IPR12 receiver and IPC7 (2.5 kw) transmitter were used on the induced polarization survey. Readings were taken in the time domain using a 2 second current pulse.

The chargeability plotted on the accompanying pseudosections and plan maps is for the interval 690 to 1050 milliseconds after shutoff (midpoint at 870 milliseconds). This corresponds to the M7 value for the IPR11.

Two Scintrex IGS-MP4 magnetometers were used for the magnetometer survey, one as the field unit and the other as a fixed base station.

5. RECOMMENDATIONS

A preliminary evaluation of the results of the geophysical surveys performed on the Koffee Property indicates the presence of moderate to strong chargeability and magnetometer highs that merit further investigation.

A detailed interpretation of these geophysical survey results, and correlation to geological and geochemical information, is required before any specific recommendations could be made.

Respectfully Submitted,



Alan Scott, P. Geos.

Statement of Qualifications

for

Alan Scott, Geophysicist

of

4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

I, Alan Scott, hereby certify the following statements regarding my qualifications, and my involvement in the program of work described in this report.

1. The work was performed by individuals sufficiently trained and qualified for its performance.
2. I have a material interest in the Koffee Property, on which the surveys discussed in this report were performed. I am a shareholder and director of Eastfield Resources Ltd.
3. I graduated from the University of British Columbia with a Bachelor of Science degree (Geophysics) in 1970, and with a Master of Business Administration degree in 1982.
4. I am a member of the Association of Professional Engineers and GeoScientists of British Columbia.
5. I have been practicing my profession as a Geophysicist in the field of Mineral Exploration since 1970.

Respectfully submitted,



Alan Scott

*needs
approval*

MINFILE: 115J 036
PAGE NO: 1 of 1
UPDATED: 06/24/94

**YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE**

NAME(S): Zappa
MINFILE #: 115J 036
MAJOR COMMODITIES: Cu
MINOR COMMODITIES: Mo
TECTONIC ELEMENT: Northern Stikine Terrane

NTS MAP SHEET: 115 J 10
LATITUDE: 62°44'15"N
LONGITUDE: 138°58'02"W
DEPOSIT TYPE: Porphyry
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

ZAPPA, MOTHERS, AZTEC, RAT, WET, KOFFEE, MAYA

WORK HISTORY

Staked as Zappa and Mothers cl (Y36184) in Aug/69 by Dawson Range JV (Straus E Inc, Martin Marietta Corp, Molybdenum Corp of America, Trojan Cons M, and Great Plains Dev C of Can L), which explored by grid soil sampling and mapping in 1969 and a mag survey in 1970. The adjoining Aztec, etc cl (Y37004) were staked in Sep/69 by Trans Columbia EL, which conducted airborne mag and spectrometer surveys followed by grid soil sampling of anomalous areas in 1970.

The Trans Columbia claims were restaked in June-Aug/73 as Rat and Wet cl (Y75586) by Casino Silver ML.

Restaked as Koffee cl (YA8205) in Sep/76 by Archer, Cathro & Assoc Ltd and explored with mapping and sampling in 1980 by Denison ML under an option. Staked again as Koffee 1-58 cl (YB37524) by Renoble Holdings Inc. (YB37482) in Sep/92. Restaked Sep/92 as Maya 1-40 cl (YB37592) by Renoble Holdings Inc. In Mar/93, Renoble consolidated its land holdings with Eastfield Resources Ltd, which acquired a 100% interest subject to a profit sharing agreement. The Achievers Training Group acquired a 50% interest in May/93. Eastfield Resources conducted a program of geological mapping, geochemical sampling and geophysical surveying (ground magnetometer and induced polarization surveys) on the Koffee claims in June/93.

GEOLOGY

The claims overlie Triassic Klotassin granodiorite intruded by a small stock of pyritized and altered quartz porphyry. Strong copper response is associated with the quartz porphyry while a moderate molybdenum soil anomaly occurs immediately to the northwest.

The 1993 program outlined a large multielement soil geochemical anomaly which was coincident with a magnetic high and a chargeability anomaly.

REFERENCES

EASTFIELD RESOURCES LTD., Assessment Report #093143 by J. Chapman and G.L. Garratt.

EASTFIELD RESOURCES LTD., Assessment Report #093144 by J. Chapman and G.L. Garratt.

GEORGE CROSS NEWSLETTER, 22 Feb/93; 10 Mar/93; 13 May/93.

MINERAL INDUSTRY REPORT 1969 and 70, p. 46-47.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 266.

needs approval

MINFILE: 115J 101
PAGE NO: 1 of 1
UPDATED: 06/24/94

**YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE**

NAME(S): Ana
MINFILE #: 115J 101
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Mt Nansen volcanics

NTS MAP SHEET: 115 J 10
LATITUDE: 62°44'15"N
LONGITUDE: 138°54'22"W
DEPOSIT TYPE: Unknown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

AZTEC, ANA, KOFFEE

WORK HISTORY

Staked as Aztec, etc cl (Y37004) in Sep/69 by Trans Columbia EL, which conducted airborne mag and spectrometer surveys and grid soil geochem surveys in 1970. Restaked as ANA cl (YA86735) in May/85 by Nordac Mg Corp, which conducted a grid geochem survey later in the year and optioned the claims to Auspex Gold Ltd in spring.

Eastfield Resources Ltd optioned the Ana claims in Mar/93. Breckinridge Resources Ltd purchased a 20% interest from Eastfield in Apr/93, with an option to acquire an additional 50% on completion of a 4 year exploration program. Eastfield Resources conducted a program of geological mapping, geochemical sampling and geophysical surveying (ground magnetometer and induced polarization surveys) on the Koffee claims in June/93.

GEOLOGY

A tourmalinized heterolithic breccia pipe of the Lower Cretaceous Mt Nansen Group has been intruded along the contact between Paleozoic gneiss and the Triassic Klotassin Batholith. Trans Columbia located a copper-molybdenum anomaly west of the breccia, while Nordac sampling showed that the area around the breccia carries anomalous values of up to 395 ppb Au.

The 1993 program outlined a large multielement soil geochemical anomaly which was coincident with a magnetic high and a chargeability anomaly.

REFERENCES

- EASTFIELD RESOURCES LTD., Assessment Report #093143 by J. Chapman and G.L. Garratt.
- EASTFIELD RESOURCES LTD., Assessment Report #093144 by J. Chapman and G.L. Garratt.
- GEORGE CROSS NEWSLETTER, 15 Mar/93; 15 Apr/93.
- TRANS COLUMBIA EXPLORATIONS LTD, 1970. Assessment Report #060227 by S.L. Sandner.
- TRANS COLUMBIA EXPLORATIONS LTD, 1970. Assessment Report #019922 by W.R. Newman.
- TRANS COLUMBIA EXPLORATIONS LTD, Sep/70. Assessment Report #061956 by D.R. Cochrane & A.J. Sinclair.
- TRANS COLUMBIA EXPLORATIONS LTD, 1972. Assessment Report #019923 by S.L. Sandner.



LEGEND

- Trails
- Trench
- Lake
- River
- Stream
- Trees
- Contours
- Index
- Intermediate

Sample Sites

- Rock x Cu, Mo (ppm), Au (ppb)
- Silt / Cu, Mo (ppm), Au (ppb)
- Soil o Cu, Mo (ppm), Au (ppb)

40 ppm Copper contour

40 ppb Gold contour

o Diamond Drill Hole

0 50 100 200 300 400 500 METRES

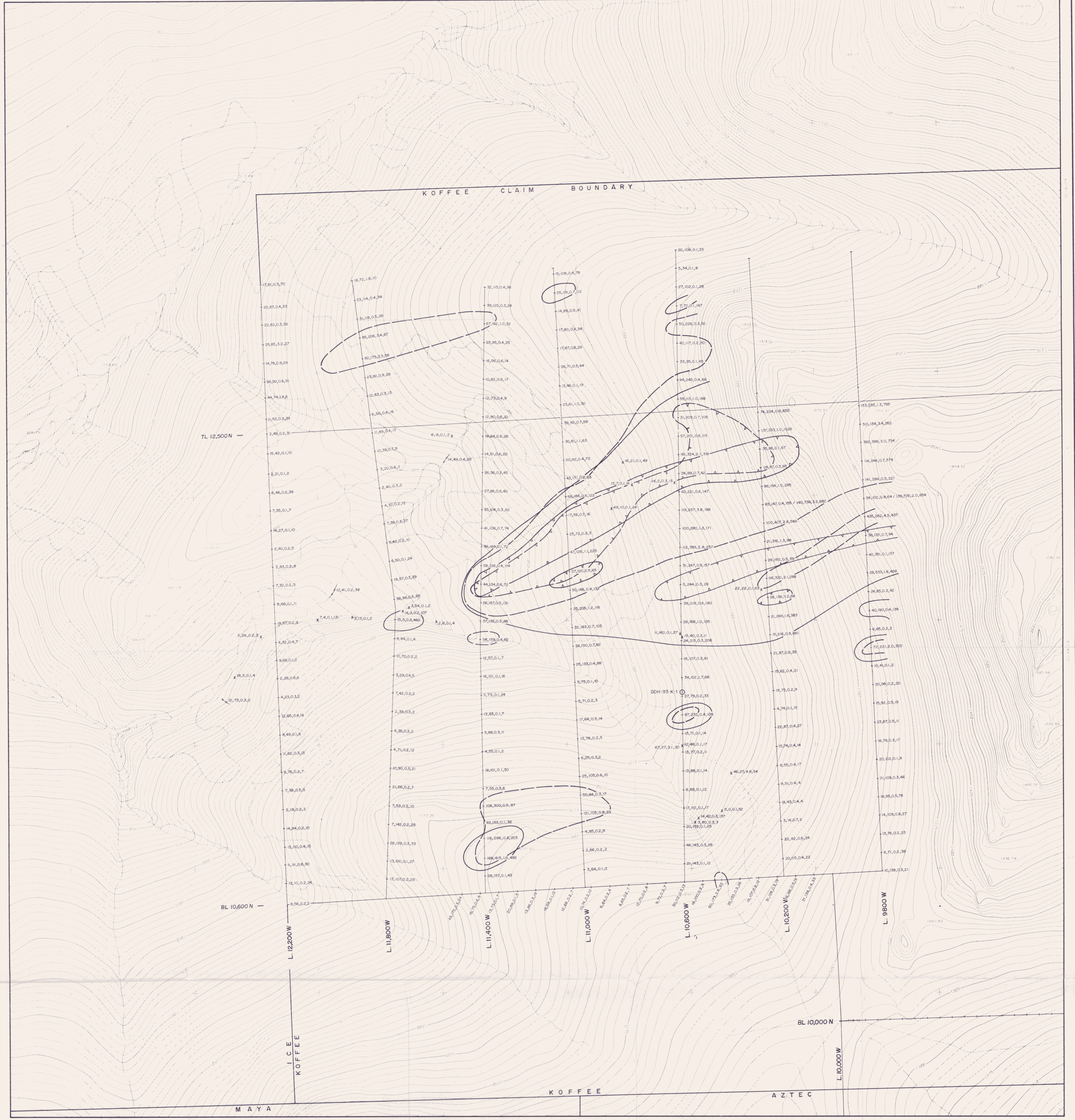
DWG 205

Eastfield Resources Ltd. /
Rockwealth International Resources Corp.

KOFFEE PROJECT
Whitehorse M.D., Yukon

**ROCK, SILT and SOIL
GEOCHEMISTRY 093143**
Cu, Mo (ppm), Au (ppb)

	Scale	1 : 5000	NTS	115-J/10
	Date	October 1993	Figure	2a
	By	JC / gel		



LEGEND
 Trails
 Trench
 Lake
 River
 Stream
 Trees
 Contours
 Index
 Intermediate

Sample Sites
 Rock X Pb, Zn, Ag, As (ppm)
 Silt S Pb, Zn, Ag, As (ppm)
 Soil Pb, Zn, Ag, As (ppm)

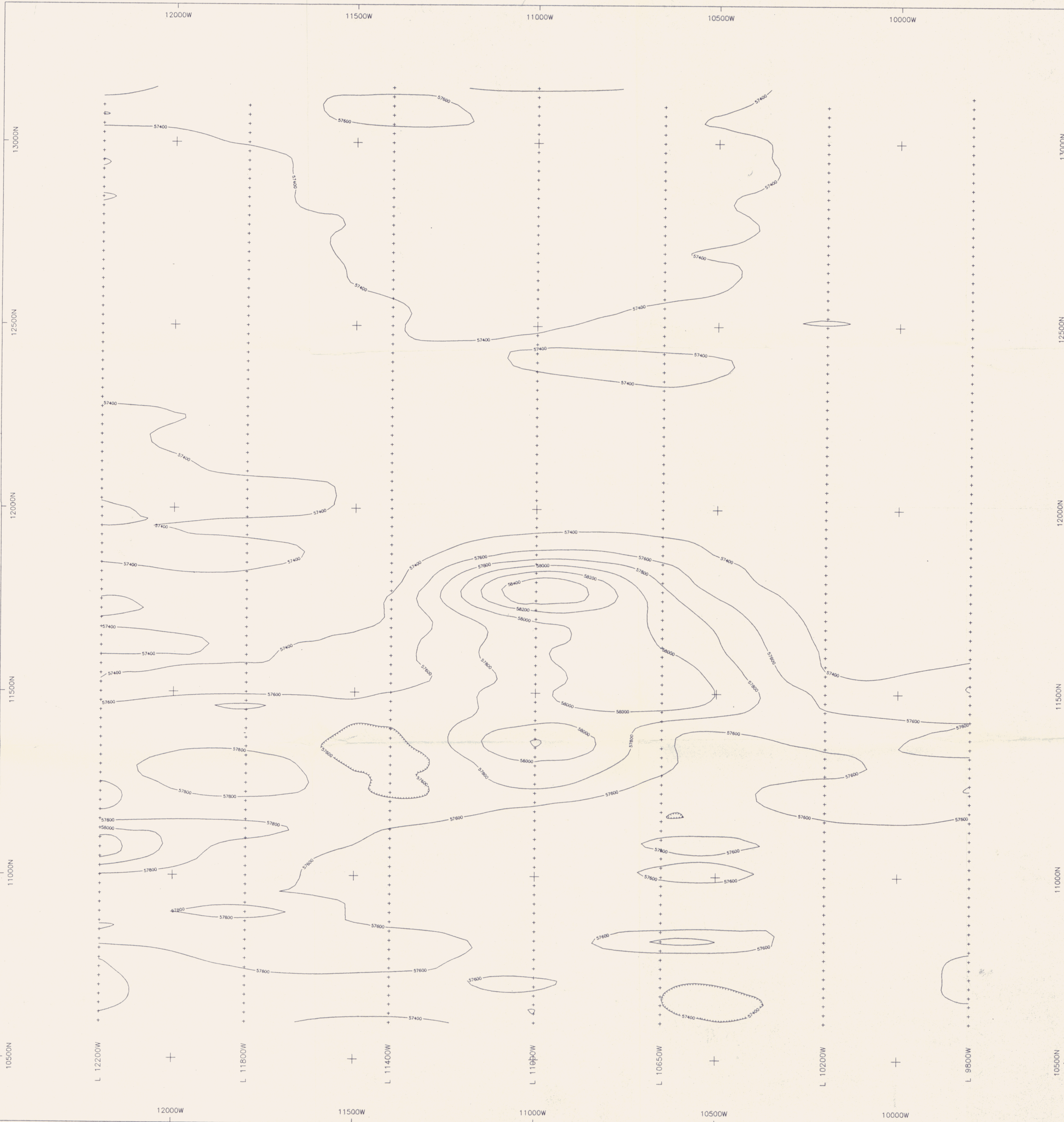
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○ Diamond Drill Hole

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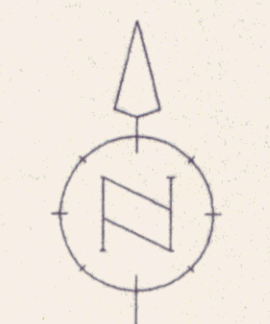
DWG 206

Eastfield Resources Ltd. / Rockwealth International Resources Corp.	
KOFFEE PROJECT Whitehorse M.D., Yukon	
ROCK, SILT and SOIL GEOCHEMISTRY Pb, Zn, Ag, As (ppm)	
MINCORD EXPLORATION CONSULTANTS LIMITED	Scale 1 : 5000 Date October 1993 By JC / gel
NTS 115-J/10 Figure 2b	

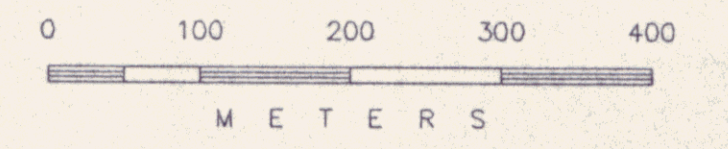


SURVEY SPECIFICATIONS

survey magnetometer	Scintrex IGS
base magnetometer	Scintrex MP4
type measurement units	proton total field gammas
diurnal corrections	base station
base cycle time	30 seconds
contour interval	200 gammas



093143

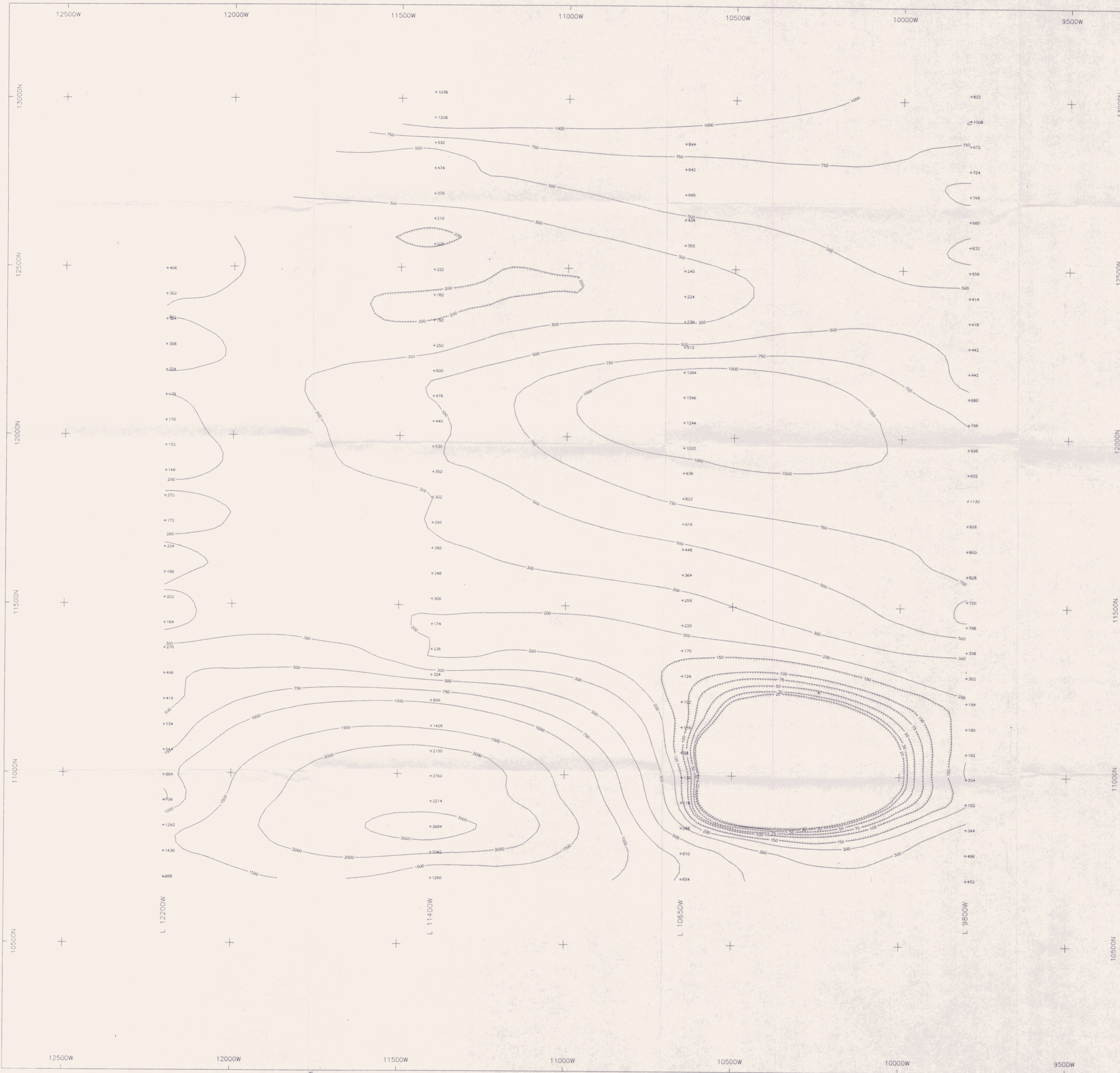


Dwg 807

EASTFIELD RESOURCES LTD.

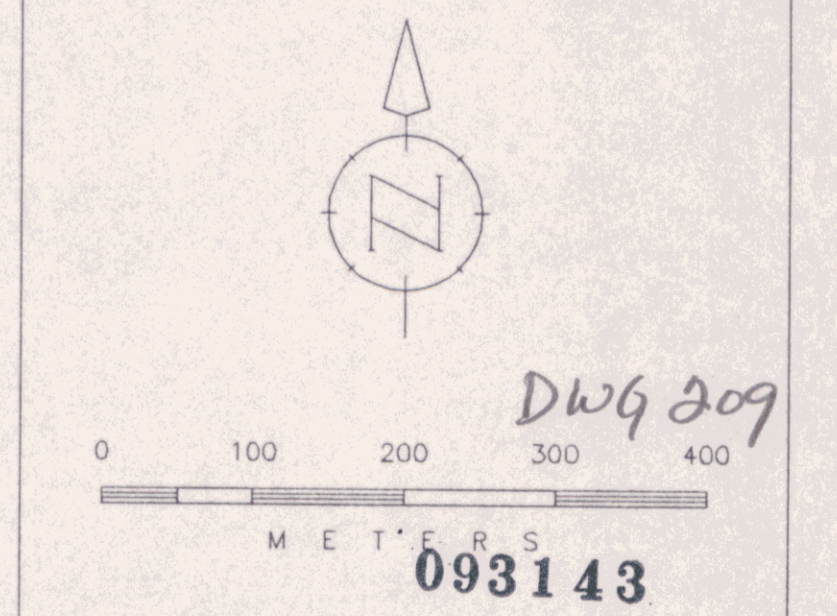
KOFFEE PROPERTY
CASINO AREA, YUKON
MAGNETOMETER CONTOUR PLAN
contour interval = 200 gammas

DRAWN BY: ars DATE: July/93
SCOTT GEOPHYSICS LTD.



SURVEY SPECIFICATIONS

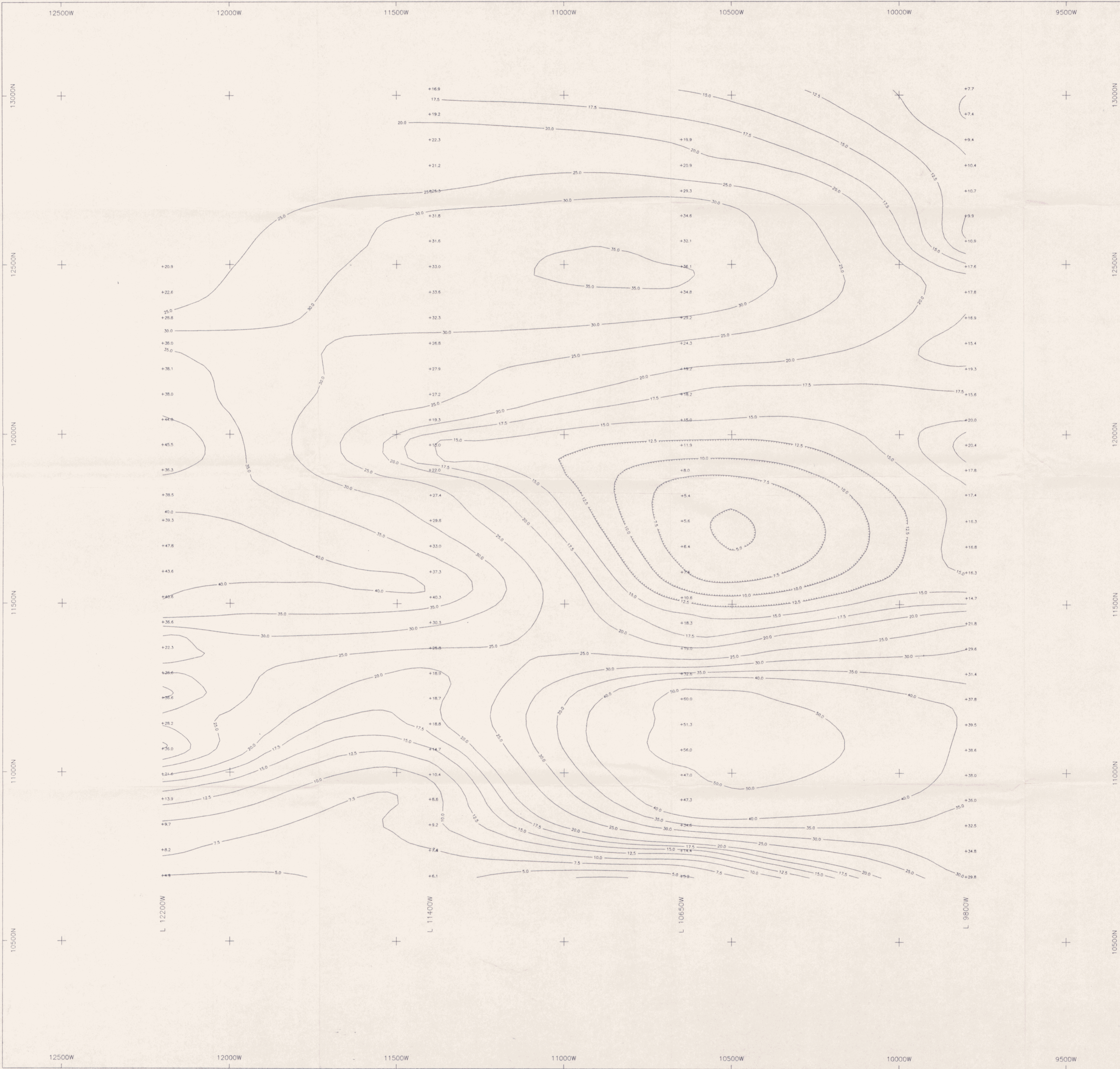
receiver	Scintrex IPR12
transmitter	Scintrex IPC7
pulse time	2 seconds
Mx receive window	690-1050 msec
mid point	870 msec
array	pole dipole
a spacing	75 meters
n separations	1, 2, 3, 4
current electrode	south (heading N)
contoured value	a=75 n=2
log contour intervals (ohm-meters)	1, 1.5, 2, 3, 5, 7.5, 10



EASTFIELD RESOURCES LTD.

KOFFEE PROPERTY
CASINO AREA, YUKON
RESISTIVITY CONTOUR PLAN
a spacing = 75 meters
2nd separation (n=2)

DRAWN BY: ars	DATE: July/93
SCOTT GEOPHYSICS LTD.	



SURVEY SPECIFICATIONS

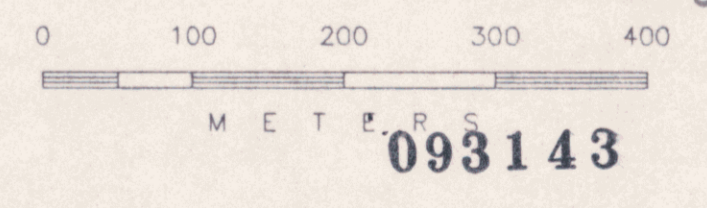
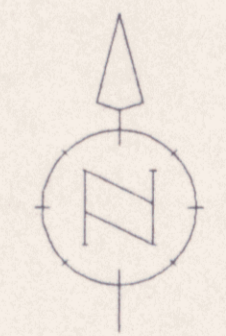
receiver Scintrex IPR12
 transmitter Scintrex IPC7
 pulse time 2 seconds
 Mx receive window 690-1050 msec
 mid point 870 msec

array pole dipole
 a spacing 75 meters
 n separations 1, 2, 3, 4

current electrode south (heading N)

contoured value a=75 n=2

contours at:
 2.5, 5, 7.5, 10, 12.5, 15,
 17.5, 20, 25, 30, 35, 40 mV/V



Dwg 208

EASTFIELD RESOURCES LTD.

KOFFEE PROPERTY
 CASINO AREA, YUKON
 CHARGEABILITY CONTOUR PLAN
 a spacing = 75 meters
 2nd separation (n=2)

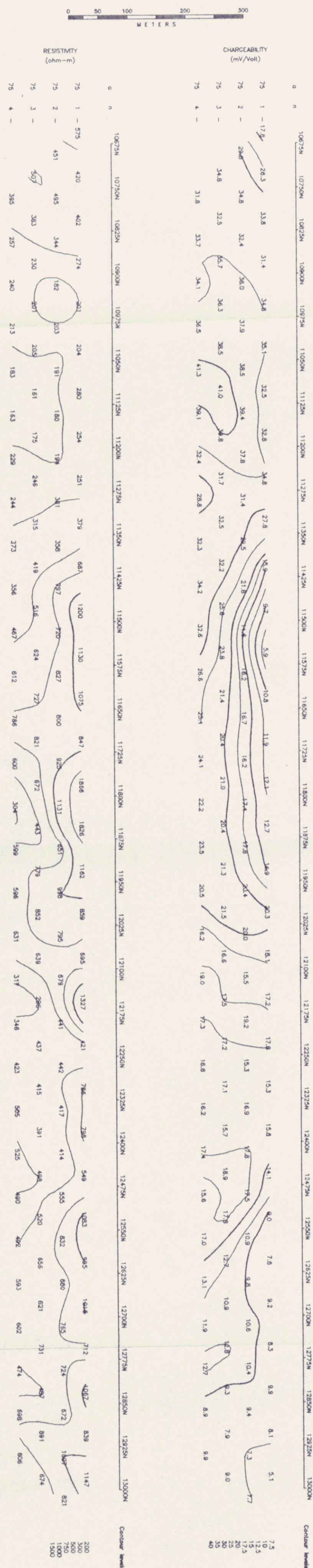
DRAWN BY: ars DATE: July/93
 SCOTT GEOPHYSICS LTD.

EASTFIELD RESOURCES LTD.

KOFFEE PROPERTY, CASINO AREA, YUKON

LINE: 9800W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD.
July/93
current electrode south of receiving electrodes
Mx Chargeability is for interval 690 to 1050 masca after shutoff



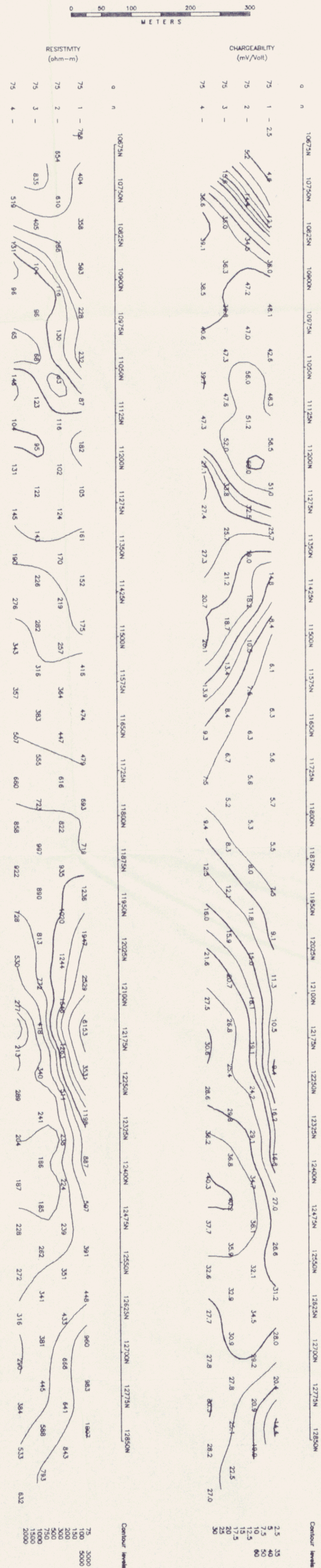
LINE: 9800W

EASTFIELD RESOURCES LTD.

KOFFEE PROPERTY, CASINO AREA, YUKON

LINE: 10650W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD.
July/93
current electrode south of receiving electrodes
Mx Chargeability is for interval 690 to 1050 masca after shutoff



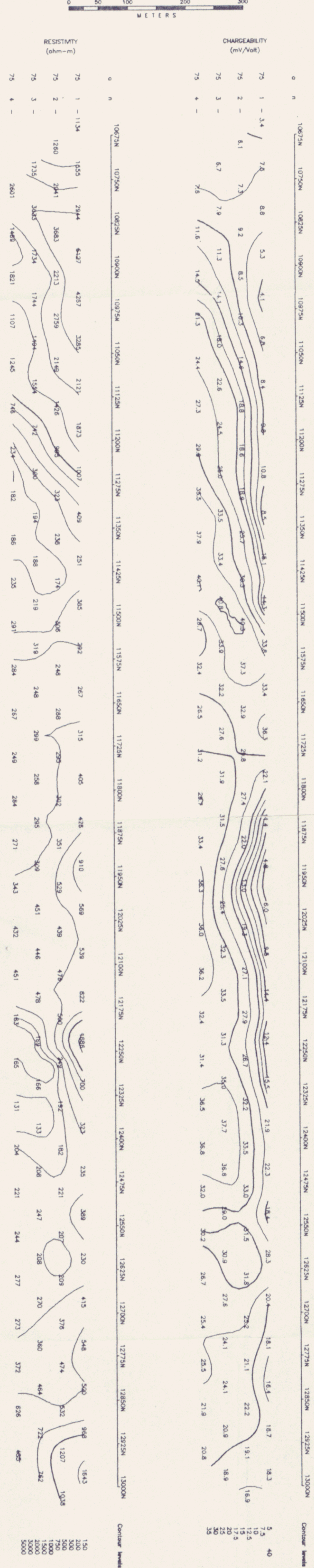
LINE: 10650W

EASTFIELD RESOURCES LTD.

KOFFEE PROPERTY, CASINO AREA, YUKON

LINE: 11400W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD.
July/93
current electrode south of receiving electrodes
Mx Chargeability is for interval 690 to 1050 masca after shutoff



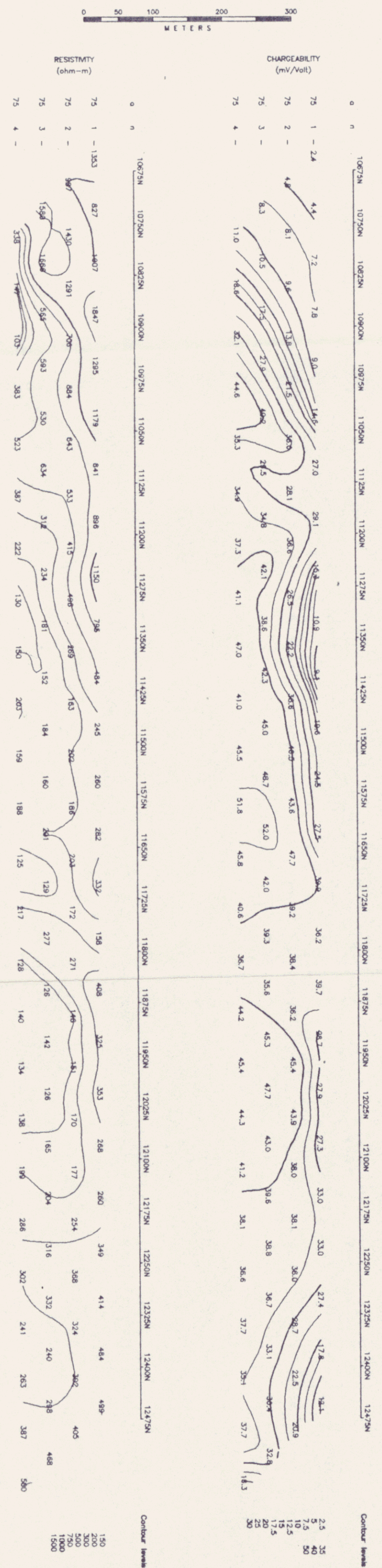
LINE: 11400W

EASTFIELD RESOURCES LTD.

KOFFEE PROPERTY, CASINO AREA, YUKON

LINE: 12200W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD.
July/93
current electrode south of receiving electrodes
Mx Chargeability is for interval 690 to 1050 masca after shutoff



LINE: 12200W