ZYMO #7-17 CLAIMS

CORE DRILLING PROGRAM REPORT

OMINECA MINING DIVISION
BRITISH COLUMBIA

NTS 93-L-13, 103-I-16

Latitude 54 degrees 49 minutes north
Longitude 127 degrees 57 minutes west

Annual Work Approval No.: SMI-99-0200371-173

Claim Owner: 811537 Alberta Ltd.

Program Operator: Freeport Copper Company

By

Frank J. Nelson, B. Sc., M. Sc.

January 24, 2000

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ZYMO #7-10 CLAIMS PROSPECTING AREA

EXECUTIVE SUMMARY

Field work during 1997 and 1998 identified a new porphyry system (the Zymo porphyry system), characterized by a chalcopyrite-bornite-gold-quartz±magnetite mineral assemblage, surrounded by a large zone of pervasive sericite-pyrite±carbonate alteration. Mineralized pebble breccia dykes and adjacent veinlets and small veins carrying elevated Au, Ag, Cu, Pb, Zn, Cd, As, Sb, Hg, Bi, and Mn cut the sericite-pyrite alteration zone.

A program of six vertical diamond drill core holes, of NQ size, was performed during the period September 3 to September 24, 1999. The drilling was conducted by Major Drilling Group of Smithers, B.C., fully supported by helicopter operated by Highland Helicopters, also of Smithers. A total of 1,448 meters was drilled, the holes varying in depth from 36 to 308 meters. Five of those drill holes were located on claim Zymo #8 and one on claim Zymo #9. Split core samples were assayed by Chemex Labs, Vancouver.

PROJECT LOCATION

West-central British Columbia about 48 kilometers west of Smithers on an unnamed creek north of Red Canyon Creek, locally known as Mulwain Creek, or about 1000 meters southwest of minfile #304 (Red). (See map, Figure 3, in rear pocket for topographic project location.)

N.T.S. MAPS

93-L-13 and 103-I-16 at about lat. 54 degrees 49 minutes north and long. 127 degrees 57 minutes west.

ACCESS AND LOGISTICS

By truck from Smithers, B.C. to a landing near the end of the McDonald Main logging road and then by helicopter to the claims. Helicopters are based in Smithers, B.C. The logging road is scheduled to be extended across the Zymo porphyry system over the next two years and to the south, over Red Canyon Creek. The property will then be about 25 miles by road from the natural gas-electrical power transmission corridor and about 90 miles by main haul road and pavement from deep water port facilities located at Kitimat, B.C.

COMMODITIES

Copper, molybdenum, gold, silver, and zinc.

DEPOSIT TYPES

Early Tertiary to Late Cretaceous age (Nanika or Bulkley age) Cu-Au-Ag porphyry; porphyry related bulk tonnage high sulphidation Au-Ag-Zn replacement deposit in Skeena Group sandstones and conglomerates (i.e., Pueblo Viejo type).

GEOLOGY AND PHYSIOGRAPHY

The Zymo property is located near the western margin of the Intermontane Tectonic belt, within the accreted Stikine terrain of west-central British Columbia. It is situated on the Northwest edge of the Skeena Arch, a major NE-SW trending Mesozoic regional transverse structural feature. (See Figure 1)

A continental magmatic arc of distinct, high-level suites of Late Cretaceous (Bulkley) and Eocene (Nanika-Babine) felsic to intermediate plutonic rocks have intruded the Skeena Arch rocks. Structurally, the Zymo property is located near the western boundary of accreted Stikinia and Coast Plutonic complexes, adjacent to a major NE structure, the Coal Creek-Louise Lake lineament. (See Figure 2)

The actual dimensions of the Zymo porphyry still remain unknown, due to the lack of detail mapping, and the unavailability of aeromagnetic data. It lies on the north side of the 060 degree trending Louise Lake-Coal Creek Lineament, which is a regional structural feature parallel to the Skeena Arch. This structure separates Lower Cretaceous Skeena Group sediments on the north from Hazelton Group volcanics on the south.

The Zymo intrusion can be characterized as a dioritic hornblende-biotite porphyry. Unaltered rock has been found in one location to the south of the phyllic alteration zone. Within that intensely altered zone, all mafic minerals have been obliterated and replaced with an assemblage of sericite, carbonate and K-feldspar (overprinted by the later sericite) and quartz. Variable amounts of pyrite, up to 10%, are common within the phyllic zone.

Late breccia dykes are common, and the phyllic alteration extends outside of intrusion, south, east and west, into the older sandstones and siltstones of the Skeena Group.

The northern part of the system may be fault-bounded; this northern boundary is in contact with coarse polymictic conglomerates which are strongly carbonated but do not exhibit any sericite alteration.

The phyllic alteration zone present at Zymo consists predominantly of sericite and pyrite and covers approximately 4.6 square kilometers. To the north, in Skeena Group conglomerates, a carbonate halo is present, comprising calcite and lesser iron carbonates. This peripheral carbonate halo is also currently interpreted to be related to the hydrothermal activity at Zymo, although this picture may be complicated by faulting, causing the north part of the intrusive complex to be down-dropped.

Locally there is development of potassic alteration, although thin section work and observed field relationships suggest that the early potassic alteration has been overprinted by late phyllic alteration. One exception is in an un-named

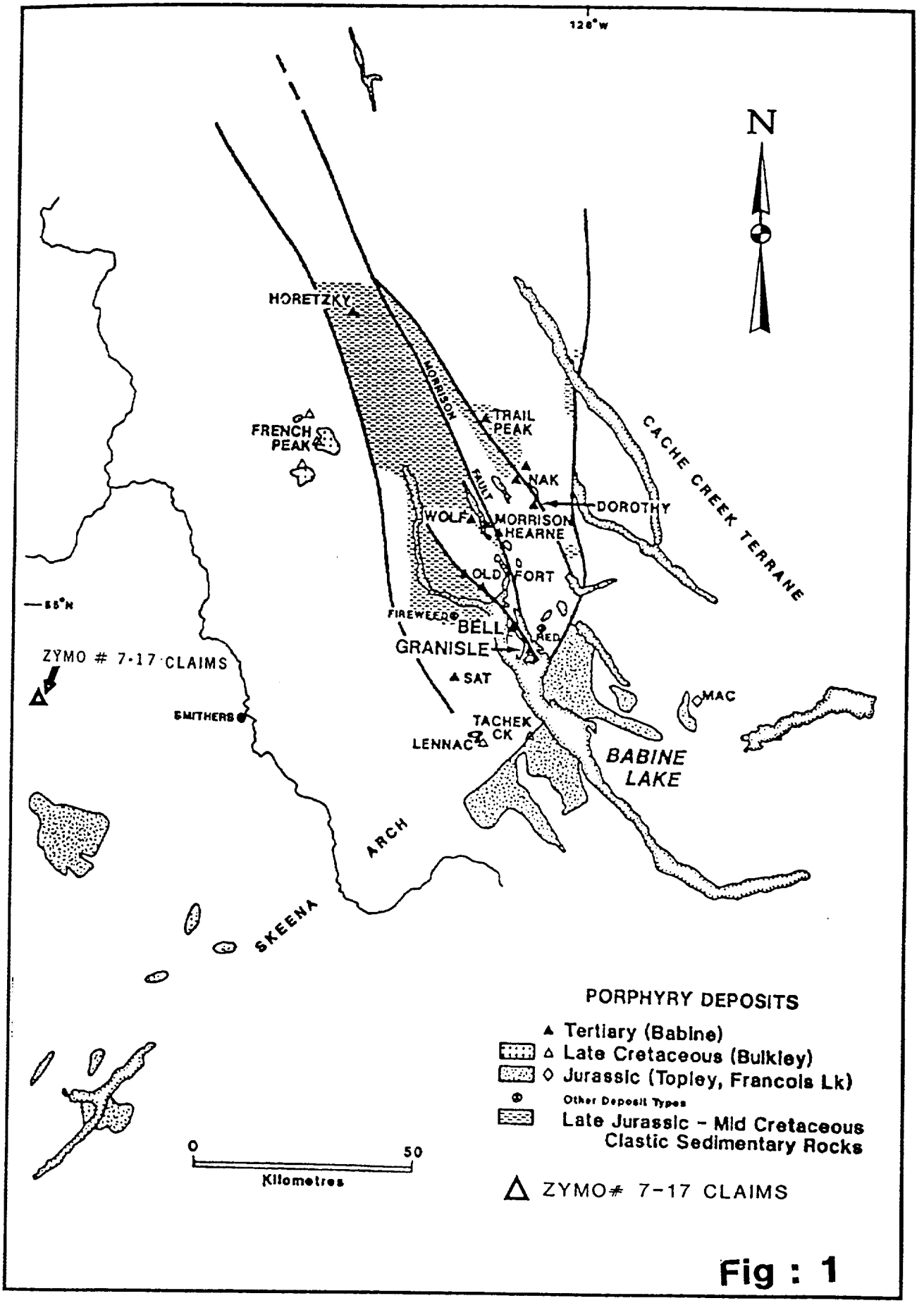
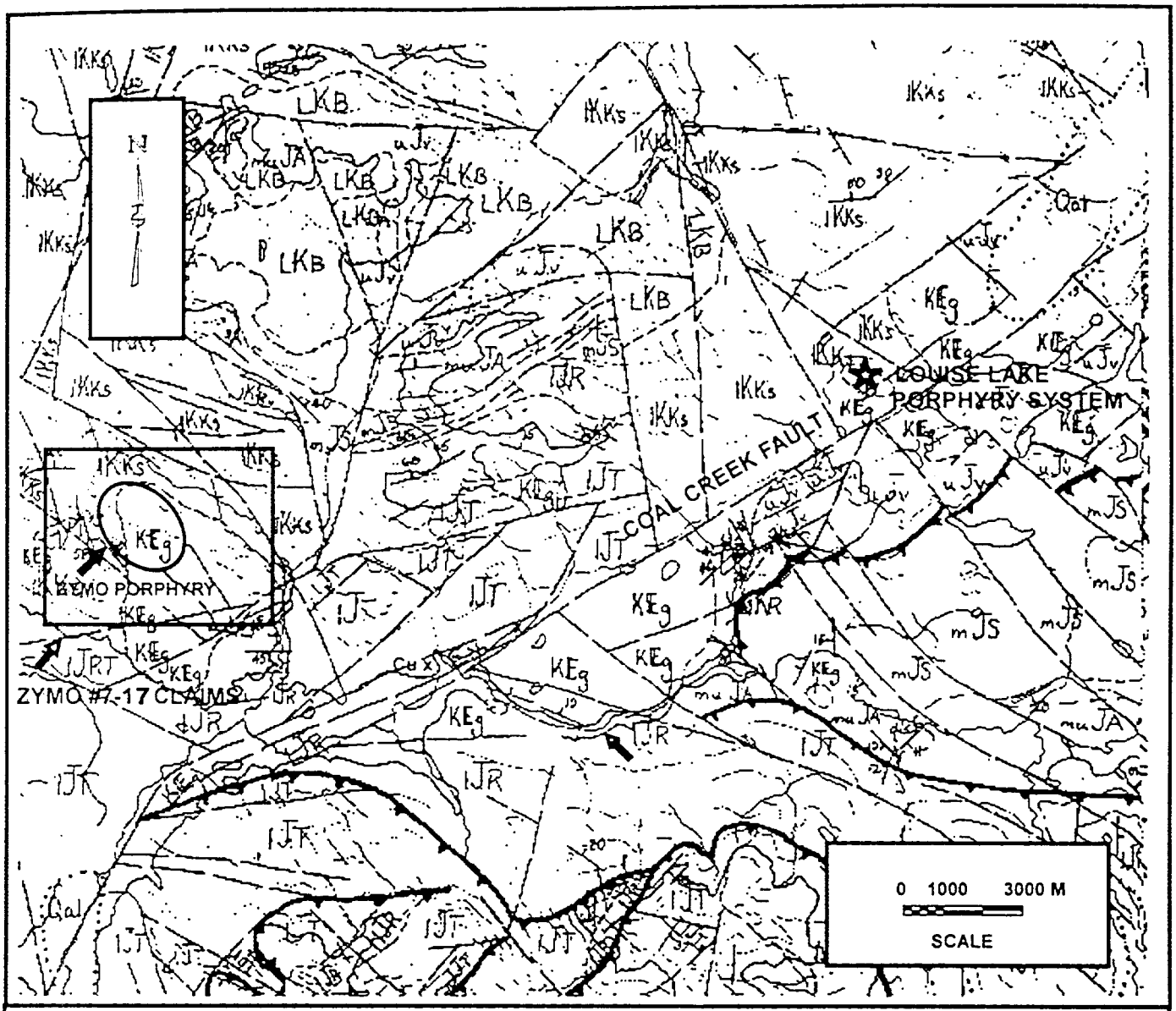

126°W
N
HORETZKY
MORRISON
TRAIL PEAK
FRENCH PEAK
FAULT
NAK
DOROTHY
CACHE CREEK TERRANE
WOLF
MORRISON
HEARNE
OLD FORT
55°N
FIREWEED
BELL
RED
GRANISLE
ZYMO # 7-17 CLAIMS
SAT
MAC
SMITHERS
TACHEK CK
LENNAC
BABINE LAKE
ARCH
SKEENA
PORPHYRY DEPOSITS
▲ Tertiary (Babine)
△ Late Cretaceous (Bulkley)
◇ Jurassic (Topley, Francois Lk)
Other Deposit Types
Late Jurassic - Mid Cretaceous Clastic Sedimentary Rocks
ZYMO# 7-17 CLAIMS
0
50
Kilometres

Fig : 1



ZYMO # 7-17 CLAIMS

N.T.S. 93-L-13

DISTRICT GEOLOGY

KEg	Late Cretaceous & Eocene; undivided: quartz diorite, quartz monzonite and granodiorite, in part porphyritic, many small plutons

NOTE: After G.S.C. Open File #351

Fig: 2

creek in the east-central part of claim Zymo #8 where classic potassic alteration is exposed. This consists of poorly developed biotite with minor chlorite, and magnetite as disseminations and stringers. In addition there is development of chalcopyrite and bornite as disseminations and fracture fillings.

The prospect area lies below the tree line and ranges in elevation from 854 m to 1281 m. Relief on Zymo Ridge is relatively gentle and rolling, especially when compared to the high mountain ranges to the north and south.

Forest growth is mature conifer which is scheduled for harvesting in the near future. Zymo Ridge is drained by a series of small streams, a few of which have cut into the hill, producing some of the better outcrop areas. All streams drain into Mulwain Creek to the north, which in turn drains into the Zymoetz River further to the east.

Zymo Ridge itself forms a prominent physiographic anomaly (circular feature), which is emphasized by Mulwain Creek to the north and east, and by Red Canyon Creek to the south.

CLAIM OWNERSHIP

Mineral claims Zymo #7 through Zymo #17 are wholly owned by 811537 Alberta Ltd. whose mailing address is 58 Canova Road S.W., Calgary, Alberta T2W 2A6, Canada.

CLAIM RECORD DATA

Claim Name	Tenure No.	Record Date
Zymo-7	345732	February 18, 2001
Zymo-8	345733	February 18, 2001
Zymo-9	354273	February 18, 2001
Zymo-10	354274	February 18, 2001
Zymo-11	367693	February 18, 2000
Zymo-12	367694	February 18, 2000
Zymo-13	367695	February 18, 2000
Zymo-14	367696	February 18, 2000
Zymo-15	367697	February 18, 2000
Zymo-16	367698	February 18, 2000
Zymo-17	367699	February 18, 2000

* Notice to Group No. 3139994 Recorded September 30, 1999

WORK ACCOMPLISHED

Six vertical, NQ-sized, diamond drill core holes were completed. Total drilling amounted to 1,448 meters and a total of 310 split-core samples were assayed for copper, molybdenum, gold, silver, arsenic, lead, zinc, and antimony. (See map, Figure 4, in rear pocket for hole locations.)

EXPLORATION HISTORY

A 116(193) ppb stream sediment gold anomaly was identified on a creek draining the project area (Open File 1361-RGR 97-1986).

While examining the nearby Louis Lake porphyry system, Lacana staked the Calvin claim over the drainage area of the RGR gold in silt anomaly and performed three days reconnaissance work. A porphyry setting was recognized; however, no further work was performed.

Skeena Resources Ltd. and Leeward Capitol Corp. in each of 1990 and 1991 undertook one day of silt sampling and prospecting. Taiga consultants of Calgary, Alberta, performed this work. Anomalous Au, Ag, Cu, Pb, and Zn silt geochemistry was noted. A few rock samples from narrow calcite veins hosted in Skeena Group sediments reported anomalous Au-Ag-Cu-Pb-Zn values. These occurrences constituted a new minfile occurrence named "Red" and was assigned minfile #304 on the Smithers map sheet N.T.S.93-L (see assessment Report #21723).

Reconnaissance prospecting performed in 1996 yielded the following results: a dacite porphyry has undergone intense phyllic alteration characterized by pervasive carbonate-sericite-pyrite and quartz-sericite pyrite replacement; copper in silts from a creek cutting this porphyry range from 572 ppm to 1697 ppm; 32 of 74 rock samples contained gold values from greater than 200 ppb to 6900 ppb; high silver values from 117 ppm to 1664 ppm were obtained from semi-massive to massive Zn-Pb-Cu veins associated with breccia dykes cutting the porphyry (see assessment report #24924).

A new porphyry system was identified during the 1997 and 1998 field seasons. This porphyry system is characterized by a chalcopyrite-bornite-gold-quartz±carbonate±magnetite mineral assemblage, surrounded by a large zone of pervasive quartz-sericite-pyrite±carbonate alteration. Mineralized pebble breccia dykes and adjacent veinlets and small veins carrying elevated Au, Ag, Cu, Pb, Zn, Cd, As, Sb, Hg, Bi, and Mn cut the sericite-pyrite alteration zone. A discreet 600 x 700 meter Cu in soil anomaly (contoured at 120, 200, 400 and >1000 ppm Cu) occurs south and uphill from the chalcopyrite-bornite mineralization identified in outcrop. Mapping and sampling indicate the Zymo porphyry is nested in a multi-phase precursor pluton and is only partially unroofed.

Thin section petrology was undertaken during late 1997 and early 1998. The precursor pluton, which hosts the Zymo prophyry system, is a quartz-bearing diorite, which has undergone variable albitization and carbonate alteration. Pervasive quartz-pyrite-sericite-carbonate altered rock south and uphill from a large copper in soil anomaly was originally arenite. The rest of this alteration zone was originally quartz-bearing diorite. Petrologic study of the chalcopyrite-bornite-gold-quartz-carbonate±magnetite zone revealed a quartz-Na-alunite-

dolomite-chlorite-hematite mineral assemblage overprinted on a chalcopyrite-bornite-gold-quartz±magnetite±biotite assemblage. The chlorite is interpreted as after biotite and the hematite is interpreted as after magnetite. These mineral assemblages are interpreted as representing an Andean style high-sulphidation Cu-Au porphyry system which has only just been unroofed.

1999 DRILLING PROGRAM RESULTS

Summary drill logs of each of the six core holes drilled in September 1999 are attached to this report as Appendix A. Assay results of the 310 split core samples follow each drill log except for hole ZY-04 which intersected only black shale and was not sampled.

All of the remaining core, split and unsplit, is currently being stored at the storage facilities of Bandstra Transportation Systems, Ltd., Smithers.

DISCUSSION

Summarized below are the assay results and a brief description of each of the Zymo drill holes. Wherever possible, weighted assay averages were calculated for significant interval lengths where sampling was continuous – mainly ZY-01 and ZY-03. In holes ZY-02, -05, and –06 non-weighted averages are presented as many barren-looking intervals of those cores were left unsplit and unsampled.

ZY-01: Very little variation in rock type or texture, alteration or mineralization for the entire length of the hole. Porphyritic, siliceous, but fresh-looking granodiorite with some weak clay alteration and persistent, disseminated pyrite (2-4%). A few narrow calcite veinlets with pyrite, sphalerite and trace chalcopyrite. Some increase in disseminated pyrite below 230 meters.

Top of bedrock @ 3 m to end of hole @ 308 m
Cu 243 ppm; Mo 1.2 ppm; Au 27 ppb

ZY-02: Porphyritic, siliceous granodiorite with highly variable, often changing alteration type and intensity – mainly potassic with complex overprint of phyllic alteration. Pervasive pyrite, disseminated and in stringers (1-5%) occurs for the full length of the hole except in some nearly barren, silicified or fresh intervals.

Top of bedrock @ 4 m to end of hole @ 301 m
Cu 307 ppm; Mo 13 ppm; Au 35 ppb

ZY-03: Porphyritic, siliceous granodiorite, weakly clay-sericite altered with (2-3%) disseminated pyrite and minor very fine-grained chalcopyrite, occurs from top of bedrock to about 52 m depth. The rest of the hole is diorite with semi-pervasive silicification and bleaching. A stockwork of very fine pyrite stringers with trace chalcopyrite occurs below 175 m to the end of the hole.

Top of bedrock @ 12 to depth of 38 m
Cu 1,328 ppm; Mo 16 ppm; Au 190 ppb

Top of bedrock @ 12 m to end of hole @ 298 m
Cu 467 ppm; Mo 11 ppm; Au 71 ppb

ZY-04: Top of bedrock @ 8 m. Fissile, massive black shale. No visible bedding. Rare local diagenetic pyrite. Hole stopped at 36 m. No samples taken.

ZY-05: A heterolithic diorite breccia with very varied clasts and weak disseminated pyrite occurs from the top of bedrock to about 80 m where it grades into a diorite breccia, then near 204 m into a porphyritic, pyritic, phyllic-altered diorite. Silicification and increased sulphides, including some fine chalcopyrite occurs below 255 m.

Top of bedrock @ 4 m. Sampling from 9 to 219 m.
Cu 140 ppm; Mo 6 ppm; Au 11 ppb

Sampled 219 m to end of hole @ 289 m.
Cu 407 ppm; Mo 10 ppm; Au 46 ppb

ZY-06: Porphyritic, siliceous granodiorite with abundant veining and flooding by anhydrite and variable pyrite, up to 10%, from top of bedrock to about 38 m. The rock becomes highly siliceous below that depth, with 2-7% disseminated pyrite, and locally minor very fine sphalerate.

Top of bedrock @ 9 m to 188 m.
Cu 378 ppm; Mo 7 ppm; Au 31 ppb

Sampled 188 m to end of hole @ 255 m.
Cu 368; Mo 4 ppm; Au 74 ppb

SUMMARY

The six-hole drilling program confirmed that the Zymo prospect is a porphyry system. All but one of the holes intersected altered porphyritic intrusives commonly containing 1-5% pyrite (locally up to 10%) and trace amounts of chalcopyrite, sphalerite and galena. Assay data confirmed the existence of the main target commodities with copper values as high as 1,328 ppm, molybdenum values to 16 ppm, and gold to 190 ppb. It now appears that the area drilled is either too high in the outer pyrite±gold shell of a copper-gold-molybdenum porphyry deposit or possibly off to one side, in the periphery of such a system.

RECOMMENDATIONS

(1) Petrographic studies are being conducted which may indicate just where the Zymo prospect lies vertically or laterally within the known porphyry system.

(2) An airborne gradient magnetic survey should be flown over the whole block of 11 claims.

(3) A second phase of drilling should be undertaken, based on data from (1) and (2) above.

REFERENCES

1. Assessment Reports 21723, 24924, 25412, 25820
2. New Mineral Deposit Models of the Cordillera-1996 Cordilleran Roundup Short Course
3. Topographic Maps N.T.S. 93-L-13 and 103-I-16
4. B.C.D..M. geology map 69-1
5. G.S.C. Open File Map 351
6. Van Der Heyden, P., 1992, A Middle Jurassic to Early Tertiary Andean-Sierran Model for the Coast Belt of British Columbia. Tectonics, 11, p. 82-97.
7. Pierce, F. W. and Bolm, J. G., Porphyry Copper Deposits of the American Cordillera, Arizona Geological Society Digest 20, 1995.
8. Titley, Spencer R., Advances in Geology of the Porphyry Copper Deposits. University of Arizona Press, 1982.

STATEMENT OF QUALIFICATIONS

I, Frank J. Nelson, graduated from Syracuse University, New York, USA, in 1961 with a B. Sc. (concentration in geology) and from the University of Arizona in 1963 with a M.Sc (concentration in geology). From that date until the present I have worked full time as an Exploration Geologist – with the Anaconda Copper Company from 1964 to 1967; then with Freeport Sulphur Company and Freeport Gold Company from 1967 to 1990. Since 1990 I have worked full time as a consultant in Mineral Exploration, with Freeport-McMoRan as my principal client – a relationship which continues to this day. I have been involved in various levels of mineral exploration in 22 countries worldwide.

Consultant geologist, Brett LaPeare, was contracted by Freeport Copper Company to oversee the Zymo drilling program and to log and sample the drill core from those six holes. Mr. LaPeare graduated from Lakehead University, Thunder Bay, Ontario, in 1990 with a B.Sc. in Geology. Since that time he has worked as a geologist in Canada, Australia, Java, and (for Freeport) in Irian Jaya, Indonesia. Freeport's senior geological staff have been sufficiently satisfied with the work of Mr. LaPeare in Irian Jaya to offer him the contract for the Zymo drilling program. (Written by Frank J. Nelson)

Freeport-McMoRan Copper & Gold Inc.
1615 Poydras Street
New Orleans, LA 70112

P. O. Box 51777
New Orleans, LA 70151

Steven D. Van Nort
Senior Vice President-Exploration
Telephone: 504-582-1752
FAX: 504-582-4683
E-mail: Steve_VanNort@fmi.com

10 August 1999

TO WHOM IT MAY CONCERN:

RE ZYMO Claim Block, British Columbia, CANADA

Frank J. Nelson, consulting geologist, is authorized to act as agent on behalf of Freeport Copper Company in the course of permitting, conducting & reporting on field operations and the filing of such work with appropriate agencies in regard to the ZYMO Claim Block.

Steven D. Van Nort
Chief Geologist
Freeport Copper Company

811537 Alberta Ltd.

58 Canova Road S.W.,

Calgary, Alberta,

Canada, T2W-2A6

August 09, 1999

Frank J. Nelson, Geological Consultant

Freeport Exploration Company,

7400 North Oracle Road, Suite 301,

Tucson, Arizona 85704

Re: Zymo Claims

Dear Frank:

You are authorized to act as agent on behalf of the registered property owner, 811537 Alberta Ltd., in the course of permitting, conducting and reporting on field operations, and filing and recording such work, including claim grouping, application for a common anniversary date and filing assessment work.

Sincerely,

Robin Day
President

STATEMENT OF EXPENDITURES

Diamond Core Drilling	Cdn	$	163,240.
Helicopter Support			65,030.
Sampling/Assaying			10,040.
	Total	$	238,670.

DRILL LOGS AND ASSAYS

See Appendix A (following)

Frank J. Nelson

APPENDIX A

DRILL LOGS AND ASSAYS

FREEPORT COPPER COMPANY

Project: ZYMO
Location: Omineca Mining Div.
BC. CANADA
Co-ordinates: N 6076047
E 567210
Collar Elevation:
Bearing: N/A Dip: - 90 °

Diamond Drill Hole Log
Drill Hole # ZY - 99 - 01

Core Size: NQ II

SAMPLE SERIES: 2501-2602

Date Collared: Sept 07, 1999
Date Finished: Sept 11, 1999

Final Depth 307.77 m.
Logged By: B. LaPeare

From Meters	To	Geological Description
0.0	3.05	**Casing / Overburden**
3.05	8.54	**Granodiorite (weakly oxidized):** fine to very fine gr., smoky grey, qtz rich matrix (possibly due to secondary silicification) w/ fine to medium gr., subhedral to anhedral white plagioclase phenocrysts; interval is massive and highly fractured - **2 - 4 % secondary pyrite as disseminated and on fracture planes**
8.54	10.06	**No Core Recovery**
10.06	26.83	**Granodiorite (fresh):** same as 3.05 to 26.83 but no oxidation; local weak alt'n of plag phenocrysts to clay + sericite ??
26.83	27.13	**Fault Gouge:** dk grey, fine gr., well developed clay w/ rounded rock fragments
27.13	113.72	**Granodiorite**: typical siliceous (silicified?) porphyritic intrusive same as 3.05 to 26.83; porphyritic texture 'fades' out locally becoming very diffuse to almost absent due to higher grade of silicification (?); rounded xenoliths up to 10 cm across occur locally and commonly exhibit rounded to cubic grains of pyrite. especially as alt'n rims, and possibly very weakly developed cpy: **pyrite at 2 - 5% as disseminated, on fractures** and slight inc., of thin py stringers **@ 71.65 m calcite on a fracture w/ py + sph +/- very fine cpy; sph w/ calcite fracture @ 82.93 m**
113.72	139.02	**Granodiorite**: as above except the interval becomes much lighter grey due to possible weak but pervasive clay alt'n or it is indicative of a more feldspar rich intersection - still siliceous - porphyritic texture is absent through out majority of unit - **increase in pyrite up to 10% locally - disseminated and on fracture planes; @ 128.05 m. a milky white qtz veinlet w/ 15% py**
139.02	224.70	**Granodiorite**: same as 3.05 - 113.72; dk grey, siliceous, porphyritic w/2 - 5% py; weak epidote alt n (@ 160.67 @ **175.61 & 182.93 m.- low angle anhydrite veinlets +/- qtz** flooding w/ up to 10% py
224.70	226.52	**Fault Zone**: well developed clay alt'n of granodiorite with gouge at 225.79-226.28 m.
226.52	263.11	**Granodiorite**: same as 139.02 – 224.70; **downhole from 230.18 m. disseminated py increases to 7- 10%**
263.11	263.41	**Diabase Dyke**: black, fine gr., porphyritic w/ medium gr (1 mm)., subhedral pyroxenes; dyke is moderately magnetie
263.41	275.61	**Granodiorite:** same as 139.02 – 263.29 m.
275.61	277.07	**Diabase Dyke**: same as 263.29 – 263.41 m. w/ a .3 m. granodiorite xenolith
277.07	307.77	**Granodiorite:** same as granodiorite at 3.05 – 113.72 and 139.02 – 275.61 m.; local anhydrite (purple to translucent) and/or qtz veinlets from < 1 to 5 cm wide +/- pyrite; **2 -5% py overall**
	E.O.H.	

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 775-356-5395 FAX: 775-355-0179

To: FREEPORT COPPER COMPANY

STE. 301 - 7400 NORTH ORACLE RD.
TUCSON, AZ
85704, USA

Project : ZYMO
Comments: ATTN: FRANK NELSON

Page Number : 1-A
Total Pages : 8
Certificate Date: 20-OCT-99
Invoice No. : 19930519
P.O. Number :
Account : RKX

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2501	205	294	20	1.2	7	300	3	35	< 0.2	228		
2502	205	294	10	1.0	5	214	3	49	0.2	352		
2503	205	294	30	1.0	20	468	3	16	0.2	70		
2504	205	294	25	1.0	23	369	3	27	0.6	542		
2505	205	294	20	1.0	27	345	2	45	1.0	247		
2506	205	294	20	1.0	12	296	2	32	0.4	393		
2507	205	294	45	2.6	34	347	2	383	1.6	1155		
2508	205	294	35	1.0	41	200	3	37	2.4	61		
2509	205	294	30	1.6	20	532	3	72	0.4	405		
2510	205	294	80	1.0	83	199	5	22	0.6	28		
2511	205	294	20	1.0	17	239	2	35	< 0.2	147		
2512	205	294	15	0.8	16	69	1	35	0.2	158		
2513	205	294	25	1.2	23	240	1	33	< 0.2	357		
2514	205	294	25	0.6	17	56	2	27	0.2	81		
2515	205	294	30	0.6	21	172	1	26	0.2	73		
2516	205	294	15	1.0	28	176	1	59	< 0.2	885		
2517	205	294	15	1.2	31	428	1	77	0.6	360		
2518	205	294	25	2.0	53	519	2	101	1.6	517		
2519	205	294	30	2.0	17	475	3	127	0.4	449		
2520	205	294	15	0.6	20	98	2	81	0.4	195		
2521	205	294	15	0.6	14	315	1	99	< 0.2	331		
2522	205	294	40	1.0	30	93	2	125	0.2	560		
2523	205	294	70	1.2	40	266	2	123	0.2	389		
2524	205	294	15	1.0	14	140	2	94	0.2	739		
2525	205	294	20	1.2	5	412	2	76	< 0.2	877		
2526	205	294	10	0.6	10	139	< 1	41	0.8	96		
2527	205	294	135	6.2	128	948	1	1390	64	2860		
2528	205	294	20	1.0	22	362	< 1	73	0.8	580		
2529	205	294	20	0.8	20	348	2	76	0.4	290		
2530	205	294	35	0.6	8	382	< 1	50	0.2	242		
2531	205	294	25	0.4	8	204	1	46	0.2	206		
2532	205	294	40	0.2	19	226	< 1	28	< 0.2	61		
2533	205	294	140	0.2	20	173	2	27	< 0.2	62		
2534	205	294	25	0.2	21	110	1	36	< 0.2	94		
2535	205	294	25	0.6	23	111	< 1	35	< 0.2	117		
2536	205	294	10	0.4	19	108	< 1	29	< 0.2	87		
2537	205	294	15	0.4	40	144	< 1	29	0.2	123		
2538	205	294	10	0.6	19	77	1	32	0.2	360		
2539	205	294	15	0.8	46	66	< 1	54	0.2	141		
2540	205	294	5	0.2	33	53	< 1	31	0.2	1000		

ZY-01

CERTIFICATION:

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

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Certificate Date: 20-OCT-99
Invoice No. : I9930519
P.O. Number :
Account : RKX

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2541	205	294	15	0.6	17	141	< 1	35	0.4	109		
2542	205	294	10	0.2	13	40	1	24	0.2	38		
2543	205	294	10	0.2	14	44	< 1	16	< 0.2	74		
2544	205	294	20	0.6	17	79	< 1	52	0.4	80		
2545	205	294	25	1.8	34	206	< 1	78	0.6	1880		
2546	205	294	15	1.8	14	473	< 1	79	0.4	732		
2547	205	294	20	0.8	16	233	< 1	56	1.2	302		
2548	205	294	50	1.8	3	432	< 1	90	0.2	1830		
2549	205	294	55	1.0	5	284	1	47	0.4	336		
2550	205	294	25	1.0	5	208	< 1	51	0.2	373		
2551	205	294	30	0.6	6	172	1	32	< 0.2	144		
2552	205	294	30	1.6	9	174	< 1	223	0.4	1180		
2553	205	294	40	0.8	7	289	1	36	0.2	312		
2554	205	294	25	1.4	10	406	< 1	105	0.4	1015		
2555	205	294	20	2.0	12	535	1	103	0.2	962		
2556	205	294	10	0.8	19	97	1	66	0.4	260		
2557	205	294	35	1.6	31	328	1	69	1.4	497		
2558	205	294	25	2.0	20	376	1	68	0.6	160		
2559	205	294	15	1.0	40	159	< 1	53	1.4	380		
2560	205	294	20	2.0	25	290	< 1	68	0.6	705		
2561	205	294	10	0.8	10	255	< 1	49	0.2	461		
2562	205	294	5	0.8	12	200	< 1	51	0.4	137		
2563	205	294	15	0.6	11	186	< 1	38	1.0	194		
2564	205	294	15	1.6	20	299	1	99	0.4	705		
2565	205	294	10	1.2	20	267	< 1	58	0.6	373		
2566	205	294	35	1.8	58	474	1	56	0.6	278		
2567	205	294	30	1.2	20	198	1	39	0.2	459		
2568	205	294	60	1.6	42	249	6	69	0.6	657		
2569	205	294	20	0.8	24	148	< 1	50	0.2	592		
2570	205	294	90	6.0	38	1050	< 1	159	1.2	567		
2571	205	294	20	1.6	13	435	1	46	0.2	274		
2572	205	294	40	1.6	8	292	< 1	21	< 0.2	240		
2573	205	294	30	1.2	17	163	1	39	< 0.2	262		
2574	205	294	25	0.2	13	76	1	27	< 0.2	228		
2575	205	294	20	0.8	12	160	2	56	< 0.2	269		
2576	205	294	15	0.2	21	175	1	59	0.4	170		
2577	205	294	15	0.2	20	74	2	20	< 0.2	66		
2578	205	294	15	0.2	68	211	1	22	2.2	91		
2579	205	294	15	0.2	82	203	< 1	22	4.8	157		
2580	205	294	10	0.4	11	184	2	42	< 0.2	411		

ZY-01

CERTIFICATION

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

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To: FREEPORT COPPER COMPANY

STE. 301 - 7400 NORTH ORACLE RD.
TUCSON, AZ
85704, USA

Project : ZYMO
Comments: ATTN: FRANK NELSON

Page Number :3-A
Total Pages :8
Certificate Date: 20-OCT-99
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CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2581	205 294	20	0.8	30	239	6	70	0.6	205		
2582	205 294	15	0.6	17	195	1	48	0.2	116		
2583	205 294	10	0.2	10	137	1	15	0.4	76		
2584	205 294	20	1.4	12	348	< 1	190	0.2	897		
2585	205 294	10	0.8	25	285	< 1	72	1.2	138		
2586	205 294	10	< 0.2	13	70	< 1	14	< 0.2	47		
2587	205 294	15	0.2	26	51	< 1	18	< 0.2	31		
2588	205 294	35	0.2	12	125	< 1	17	< 0.2	46		
2589	205 294	15	0.2	16	111	< 1	36	< 0.2	99		
2590	205 294	10	0.2	11	55	1	18	< 0.2	36		
2591	205 294	10	0.2	19	41	1	20	< 0.2	53		
2592	205 294	10	0.2	13	80	1	24	< 0.2	102		
2593	205 294	25	0.4	48	70	1	38	< 0.2	235		
2594	205 294	20	0.4	14	234	1	44	< 0.2	125		
2595	205 294	80	1.8	37	308	< 1	153	1.6	435		
2596	205 294	90	1.0	55	278	1	104	2.8	361		
2597	205 294	35	1.6	38	402	1	139	1.4	465		
2598	205 294	40	1.2	15	148	< 1	145	1.8	435		
2599	205 294	15	0.2	12	109	1	57	0.4	194		
2600	205 294	15	< 0.2	17	58	< 1	19	0.2	54		
2601	205 294	20	0.8	22	259	3	74	0.4	204		
2602	205 294	35	1.4	23	269	1	196	0.4	768		

ZY-01

Zymo Drilling Results Drill Hole ZY-01

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2501	ZY-01	3.05	5.49	20	1.2	7	300	3	35	0.1	228
2502	ZY-01	5.49	8.54	10	1	5	214	3	49	0.2	352
2503	ZY-01	10.06	14.63	30	1	20	468	3	16	0.2	70
2504	ZY-01	14.63	17.68	25	1	23	369	3	27	0.6	542
2505	ZY-01	17.68	20.73	20	1	27	345	2	45	1	247
2506	ZY-01	20.73	23.78	20	1	12	296	2	32	0.4	393
2507	ZY-01	23.78	26.83	45	2.6	34	347	2	383	1.6	1155
2508	ZY-01	26.83	29.88	35	1	41	200	3	37	2.4	61
2509	ZY-01	29.88	32.93	30	1.6	20	532	3	72	0.4	405
2510	ZY-01	32.93	35.98	80	1	83	199	5	22	0.6	28
2511	ZY-01	35.98	39.02	20	1	17	239	2	35	0.1	147
2512	ZY-01	39.02	42.07	15	0.8	16	69	1	35	0.2	158
2513	ZY-01	42.07	45.12	25	1.2	23	240	1	33	0.1	357
2514	ZY-01	45.12	48.17	25	0.6	17	56	2	27	0.2	81
2515	ZY-01	48.17	51.22	30	0.6	21	172	1	26	0.2	73
2516	ZY-01	51.22	54.27	15	1	28	176	1	59	0.1	885
2517	ZY-01	54.27	57.32	15	1.2	31	428	1	77	0.6	360
2518	ZY-01	57.32	60.06	25	2	53	519	2	101	1.6	517
2519	ZY-01	60.06	62.5	30	2	17	475	3	127	0.4	449
2520	ZY-01	62.5	64.94	15	0.6	20	98	2	81	0.4	195
2521	ZY-01	64.94	67.38	15	0.6	14	315	1	99	0.1	331
2522	ZY-01	67.38	69.51	40	1	30	93	2	125	0.2	560
2523	ZY-01	69.51	72.56	70	1.2	40	266	2	123	0.2	389
2524	ZY-01	72.56	75.61	15	1	14	140	2	94	0.2	739
2525	ZY-01	75.61	78.66	20	1.2	5	412	2	76	0.1	877
2526	ZY-01	78.66	81.71	10	0.6	10	139	0.5	41	0.8	96
2527	ZY-01	81.71	84.76	135	6.2	128	948	1	1390	64	2860
2528	ZY-01	84.76	87.8	20	1	22	362	0.5	73	0.8	580

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2529	ZY-01	87.8	90.85	20	0.8	20	348	2	76	0.4	290
2530	ZY-01	90.85	93.9	35	0.6	8	382	0.5	50	0.2	242
2531	ZY-01	93.9	96.95	25	0.4	8	204	1	46	0.2	206
2532	ZY-01	96.95	100	40	0.2	19	226	0.5	28	0.1	61
2533	ZY-01	100	102.74	140	0.2	20	173	2	27	0.1	62
2534	ZY-01	102.74	105.79	25	0.2	21	110	1	36	0.1	94
2535	ZY-01	105.79	108.84	25	0.6	23	111	0.5	35	0.1	117
2536	ZY-01	108.84	111.89	10	0.4	19	108	0.5	29	0.1	87
2537	ZY-01	111.89	114.94	15	0.4	40	144	0.5	29	0.2	123
2538	ZY-01	114.94	117.99	10	0.6	19	77	1	32	0.2	360
2539	ZY-01	117.99	121.04	15	0.8	46	66	0.5	54	0.2	141
2540	ZY-01	121.04	124.09	5	0.2	33	53	0.5	31	0.2	1000
2541	ZY-01	124.09	127.13	15	0.6	17	141	0.5	35	0.4	109
2542	ZY-01	127.13	130.18	10	0.2	13	40	1	24	0.2	38
2543	ZY-01	130.18	133.23	10	0.2	14	44	0.5	16	0.1	74
2544	ZY-01	133.23	136.28	20	0.6	17	79	0.5	52	0.4	80
2545	ZY-01	136.28	139.33	25	1.8	34	206	0.5	78	0.6	1880
2546	ZY-01	139.33	142.38	15	1.8	14	473	0.5	79	0.4	732
2547	ZY-01	142.38	145.43	20	0.8	16	233	0.5	56	1.2	302
2548	ZY-01	145.43	148.48	50	1.8	3	432	0.5	90	0.2	1830
2549	ZY-01	148.48	151.83	55	1	5	284	1	47	0.4	336
2550	ZY-01	151.83	154.88	25	1	5	208	0.5	51	0.2	373
2551	ZY-01	154.88	157.93	30	0.6	6	172	1	32	0.1	144
2552	ZY-01	157.93	160.98	30	1.6	9	174	0.5	225	0.4	1180
2553	ZY-01	160.98	163.72	40	0.8	7	289	1	36	0.2	312
2554	ZY-01	163.72	166.77	25	1.4	10	406	0.5	105	0.4	1015
2555	ZY-01	166.77	169.82	20	2	12	535	1	103	0.2	962
2556	ZY-01	169.82	172.87	10	0.8	19	97	1	66	0.4	260
2557	ZY-01	172.87	175.91	35	1.6	31	328	1	69	1.4	497
2558	ZY-01	175.91	178.66	25	2	20	376	1	68	0.6	160
2559	ZY-01	178.66	181.71	15	1	40	159	0.5	53	1.4	380
2560	ZY-01	181.71	184.76	20	2	25	290	0.5	68	0.6	705

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2561	ZY-01	184.76	187.8	10	0.8	10	255	0.5	49	0.2	461
2562	ZY-01	201.52	190.85	5	0.8	12	200	0.5	51	0.4	137
2563	ZY-01	190.85	193.9	15	0.6	11	186	0.5	38	1	194
2564	ZY-01	193.9	196.95	15	1.6	20	299	1	99	0.4	705
2565	ZY-01	196.95	200	10	1.2	20	267	0.5	58	0.6	373
2566	ZY-01	200	203.05	35	1.8	58	474	1	56	0.6	278
2567	ZY-01	203.05	206.1	30	1.2	20	198	1	39	0.2	459
2568	ZY-01	206.1	209.15	60	1.6	42	249	6	69	0.6	657
2569	ZY-01	209.15	212.2	20	0.8	24	148	0.5	50	0.2	592
2570	ZY-01	212.2	215.24	90	6	38	1050	0.5	159	1.2	567
2571	ZY-01	215.24	218.29	20	1.6	13	435	1	46	0.2	274
2572	ZY-01	218.29	221.34	40	1.6	8	292	0.5	21	0.1	240
2573	ZY-01	221.34	222.87	30	1.2	17	163	1	39	0.1	262
2574	ZY-01	222.87	224.7	25	0.2	13	76	1	27	0.1	228
2575	ZY-01	224.7	225.91	20	0.8	12	160	2	56	0.1	269
2576	ZY-01	225.91	228.96	15	0.2	21	175	1	59	0.4	170
2577	ZY-01	228.96	232.01	15	0.2	20	74	2	20	0.1	66
2578	ZY-01	232.01	235.06	15	0.2	68	211	1	22	2.2	91
2579	ZY-01	235.06	238.11	15	0.2	82	203	0.5	22	4.8	357
2580	ZY-01	238.11	241.16	10	0.4	11	184	2	42	0.1	411
2581	ZY-01	241.16	244.21	20	0.8	30	239	6	70	0.6	205
2582	ZY-01	244.21	247.26	15	0.6	17	195	1	48	0.2	116
2583	ZY-01	247.26	250.3	10	0.2	10	137	1	15	0.4	76
2584	ZY-01	250.3	253.35	20	1.4	12	348	0.5	190	0.2	897
2585	ZY-01	253.35	256.4	10	0.8	25	285	0.5	72	1.2	138
2586	ZY-01	256.4	259.45	10	0.1	13	70	0.5	14	0.1	47
2587	ZY-01	259.45	262.5	15	0.2	26	51	0.5	18	0.1	31
2588	ZY-01	262.5	265.55	35	0.2	12	125	0.5	17	0.1	46
2589	ZY-01	265.55	268.6	15	0.2	16	111	0.5	36	0.1	99
2590	ZY-01	268.6	271.65	10	0.2	11	55	1	18	0.1	36
2591	ZY-01	271.65	274.7	10	0.2	19	41	1	20	0.1	53
2592	ZY-01	274.7	277.13	10	0.2	13	80	1	24	0.1	102

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2593	ZY-01	277.13	279.88	25	0.4	48	70	1	38	0.1	235
2594	ZY-01	279.88	282.93	20	0.4	14	234	1	44	0.1	125
2595	ZY-01	282.93	285.98	80	1.8	37	308	0.5	153	1.6	435
2596	ZY-01	285.98	289.02	90	1	55	278	1	104	2.8	361
2597	ZY-01	289.02	292.07	35	1.6	38	402	1	139	1.4	465
2598	ZY-01	292.07	295.12	40	1.2	15	148	0.5	145	1.8	435
2599	ZY-01	295.12	298.17	15	0.2	12	109	1	57	0.4	194
2600	ZY-01	298.17	301.22	15	0.1	17	58	0.5	19	0.2	54
2601	ZY-01	301.22	304.27	20	0.8	22	259	3	74	0.4	204
2602	ZY-01	304.27	307.77	35	1.4	23	269	1	196	0.4	788

FREEPORT COPPFR COMPANY

Diamond Drill Hole Log
Drill Hole # ZY - 99-02

Project: ZYMO
Location: Omineca Mining Div.
BC. CANADA
Co-ordinates: N 6076433
E 567535
Collar Elevation:
Bearing: N/A Dip: -90°

Core Size: NQ II

SAMPLE SERIES: 2603 - 2643

Date Collared: Sept. 11, 1999

Date Finished: Sept 14. 1999

Final Depth: 301.22 (m)

Logged By: B. LaPeare

From Meters	To Meters	Geological Description
	3.66	**Casing / Overburden**
3.66	35.06	**Granodiorite:** massive, fine to medium grained, light/medium grey, siliceous (silicified); porphyritic w/ 30 - 40% subhedral medium grained plagioclase phenocrysts ; **1 - 5 % pyrite (highly variable) as disseminated and within anhydrite and/or qtz and qtz/carb veinlets and stringers**
35.06	91.46	**Granodiorite**: similar to 3.66 to 35.06 m. except that grey unaltered granodiorite is mostly overprinted by moderate to well developed, patchy to semi pervasive, fine to very grained, buff coloured *potassic K-spar alt* 'n; porphyritic texture is diffuse to absent throughout much of the interval; **2 - 5% disseminated pyrite +/- local stringers**
91.46	95.12	**Granodiorite:** greenish grey to green alt'n of the matrix and/or phenocrysts occurs; interpreted as *sericitic alt 'n* - porphyritic texture is highly diffuse to absent **2- 4% disseminated pyrite**
95.12	301.22	**Granodiorite:** very patchy, mottled texture due to three stages of alt'n consisting predominantly of 'intercalated' potassic K-spar and sericitic alt'n described above at 35.06-91.46 and 91.46 – 95.12 m; a third less common brownish, very fine grained alt'n occurs "possibly" as weak biotite(??) alt'n; porphyritic texture is absent/destroyed throughout most of the hole due to overprinting by alt'n assemblages; locally small intervals (.30-.91 m of grey unaltered porphyritic granodiorite; timing of the alt'n appears to be K-spar potassic first and then later stage sericitic alt'n. **<1- 4% pyrite in local stringers and anhydrite/ qtz veinlets but mostly disseminated - trace to < 1% disseminated cpy + bornite noted @ from 298.78 – 301.22 m**
		E.O.H.

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

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To: FREEPORT COPPER COMPANY

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TUCSON, AZ
85704, USA

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Comments: ATTN. FRANK NELSON

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CERTIFICATE OF ANALYSIS A9930519

ZY-02

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2603	205 294	20	1.0	33	195	1	183	2.0	485		
2604	205 294	55	14.8	145	266	< 1	9140	28	>10000		
2605	205 294	75	3.6	60	69	< 1	62	0.6	271		
2606	205 294	10	1.0	23	57	1	55	1.6	97		
2607	205 294	20	< 0.2	31	62	1	25	0.4	50		
2608	205 294	10	0.2	20	17	1	28	0.4	53		
2609	205 294	15	0.2	43	117	6	167	1.6	146		
2610	205 294	40	2.0	93	303	8	1130	7.2	320		
2611	205 294	20	< 0.2	36	66	9	37	1.8	51		
2612	205 294	20	< 0.2	32	180	5	23	0.6	45		
2613	205 294	25	< 0.2	20	160	15	11	0.2	40		
2614	205 294	115	< 0.2	23	47	11	15	< 0.2	44		
2615	205 294	20	< 0.2	61	144	5	8	0.2	48		
2616	205 294	225	12.2	214	186	1	2190	26	3950		
2617	205 294	10	0.2	29	159	18	16	0.8	49		
2618	205 294	10	< 0.2	17	37	1	14	< 0.2	55		
2619	205 294	55	0.4	52	98	3	27	1.6	50		
2620	205 294	65	9.0	100	315	37	1105	8.4	3170		

Chemex Labs, Inc.

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TUCSON, AZ
85704, USA

Project : ZYMO
Comments: ATTN: FRANK NELSON

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CERTIFICATE OF ANALYSIS A9930519

ZY-02

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2621	205	294	105	24.2	11.4	840	6	3560	26	>10000		
2622	205	294	45	0.8	26	205	16	108	0.6	203		
2623	205	294	25	0.6	7	883	15	19	0.6	64		
2624	205	294	10	0.6	6	398	12	69	< 0.2	190		
2625	205	294	10	0.2	5	454	6	15	< 0.2	56		
2626	205	294	15	0.4	46	587	25	16	4.8	51		
2627	205	294	20	0.6	89	659	27	57	1.2	123		
2628	205	294	10	0.4	23	373	10	54	0.6	123		
2629	205	294	10	0.2	1	83	3	19	< 0.2	122		
2630	205	294	15	0.4	9	263	4	9	< 0.2	44		
2631	205	294	10	0.4	7	453	11	10	< 0.2	49		
2632	205	294	20	0.2	5	507	12	13	< 0.2	49		
2633	205	294	20	0.2	45	280	8	40	0.4	69		
2634	205	294	75	3.6	184	371	12	2620	14.0	4170		
2635	205	294	15	0.4	17	104	7	30	0.4	109		
2636	205	294	50	0.8	40	784	10	60	1.4	94		
2637	205	294	60	0.8	93	197	10	200	1.2	238		
2638	205	294	30	1.4	42	368	20	176	0.8	338		
2639	205	294	35	0.8	27	801	22	54	0.8	96		
2640	205	294	15	0.2	26	453	21	33	0.8	76		
2641	205	294	10	0.2	16	127	10	25	0.4	95		
2642	205	294	20	0.4	6	91	4	104	0.4	320		
2643	205	294	15	0.2	12	43.6	35	27	< 0.2	63		40'

Zymo Drilling Results Drill Hole ZY-02

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2603	ZY-02	3.35	6.4	20	1	33	195	1	183	2	485
2604	ZY-02	7.93	9.45	55	14.8	145	266	0.5	9140	28	10005
2605	ZY-02	15.24	18.29	75	3.6	60	69	0.5	62	0.6	271
2606	ZY-02	23.17	26.22	10	1	23	57	1	55	1.6	97
2607	ZY-02	33.54	36.59	20	0.1	31	62	1	25	0.4	50
2608	ZY-02	42.99	44.82	10	0.2	20	17	1	28	0.4	53
2609	ZY-02	44.82	47.01	15	0.2	43	117	6	167	1.6	146
2610	ZY-02	48.96	51.22	40	2	93	303	8	1130	7.2	320
2611	ZY-02	60.98	64.02	20	0.1	36	66	9	37	4.8	51
2612	ZY-02	70.12	73.17	20	0.1	32	180	5	23	0.6	45
2613	ZY-02	77.74	80.79	25	0.1	20	168	15	11	0.2	40
2614	ZY-02	82.93	85.98	115	0.1	23	47	11	15	0.1	44
2615	ZY-02	91.46	95.12	20	0.1	61	144	5	8	0.2	48
2616	ZY-02	100.85	102.26	225	12.2	234	386	1	2390	26	3950
2617	ZY-02	107.74	109.45	10	0.2	29	159	18	16	0.8	49
2618	ZY-02	109.45	111.49	10	0.1	17	37	3	14	0.1	55
2619	ZY-02	116.16	119.21	55	0.4	52	98	3	27	1.6	58
2620	ZY-02	121.95	123.78	65	9	100	315	37	1105	8.4	3170
2621	ZY-02	131.1	134.15	105	24.2	114	840	6	3560	26	10005
2622	ZY-02	139.94	142.99	45	0.8	26	205	16	108	0.6	203
2623	ZY-02	152.13	155.18	25	0.6	7	883	35	19	0.6	64
2624	ZY-02	165.55	167.99	10	0.6	6	398	32	69	0.1	190
2625	ZY-02	178.96	180.79	10	0.2	5	454	6	15	0.1	56
2626	ZY-02	189.94	192.99	15	0.4	46	587	25	16	4.8	51
2627	ZY-02	196.04	199.09	20	0.6	89	659	27	57	1.2	123
2628	ZY-02	202.74	205.79	10	0.4	23	373	10	54	0.6	123
2629	ZY-02	205.79	207.32	10	0.2	1	83	3	19	0.1	122
2630	ZY-02	215.85	218.9	15	0.4	9	263	4	9	0.1	44

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2631	ZY-02	228.05	231.1	10	0.4	7	453	11	18	0.1	49
2632	ZY-02	231.1	234.15	20	0.2	5	507	12	13	0.1	49
2633	ZY-02	243.29	246.34	20	0.2	45	280	8	40	0.4	69
2634	ZY-02	252.44	255.49	75	3.6	184	371	12	2620	14	4170
2635	ZY-02	264.63	267.68	15	0.4	17	104	7	38	0.4	109
2636	ZY-02	276.83	279.88	50	0.8	40	784	30	60	1.4	94
2637	ZY-02	280.79	282.93	60	0.8	93	397	30	200	3.2	238
2638	ZY-02	282.93	285.98	30	1.4	42	368	20	176	0.8	338
2639	ZY-02	285.98	289.02	35	0.8	27	801	22	54	0.8	96
2640	ZY-02	289.02	292.07	15	0.2	26	453	23	33	0.8	76
2641	ZY-02	292.07	295.12	10	0.2	16	127	10	25	0.4	95
2642	ZY-02	295.12	298.17	20	0.4	6	91	4	104	0.4	320
2643	ZY-02	298.17	301.22	15	0.2	12	416	35	27	0.1	63

FREEPORT COPPER COMPANY

Project: ZYMO
Location Omineca Mining Div.
BC. CANADA
Co-ordinates: N 6075627
E 566940
Collar Elevation:
Bearing: N/A Dip: - 90 °

Diamond Drill Hole Log
Drill Hole # ZY - 99 - 03

Core Size: NQ II
SAMPLE SERIES: 2603 – 2643

Date Collared: Sept. 14, 1999

Date Finished: Sept. 16, 1999

Final Depth: 301.22 (m)

Logged By: B. La Peare

From	To	Geological Description
Meters		
0.0	12.20	**Casing / Overburden**
12.20	17.99	**Granodiorite:** light to dull grey, fine to medium grained siliceous matrix w/ 35 - 40% subhedral plagioclase phenocrysts 1 - 3 mm; matrix exhibits possible weak clay (??) alt'n; local qtz and gypsum veinlets exhibit **pyrite +/- trace very fine grained cpy within the pyrite**
17.99	26.22	**Fault (?) Breccia**: numerous fault gouge zones from 0.15 to 0.76 m intervals; generally hosts rounded, unconsolidated rock fragments; between gouge zones granodiorite is brecciated with coarse fragments often rounded suggesting a possible hydrothermal origin - **2 - 3% py as disseminated and within calcic vugs**
26.22	44.82	**Granodiorite:** mottled, light grey, no porphyritic texture evident; wk pervasive clay alt'n w/ patchy dull beige coloured clay + sericitic (?) alt'n - interval exhibits high degree of gypsum/anhydrite veinlets w/ minor pyrite - **2 - 3% pyrite as disseminated trace disseminated cpy @ 33.23 to 33.54 m.**
44.82	46.65	**Fault (?) Zone**: well developed clay alt'n along a lineament parallel to the C.A.; 2 **3% disseminated pyrite**
46.65	51.95	**Clay Alt'n Zone**: well developed clay alt'n throughout however textures are well preserved; where locally porphyritic it may be coarse fragments within a later stage breccia **< % disseminated pyrite**
51.95	86.59	**Diorite Breccia**: mottled, very dark grey, fine grained, local weak to moderate clay altered matrix w/ rounded fragments of either altered diorite/granodiorite ranging from < 1 to > 10 cm to coarse very fine grained cherty (?) fragments; locally silicified; this interval exhibits local moderate to well developed hematitic alt'n; **< 1 - 2% diss py**
86.59	114.33	**Diorite**: greenish grey, massive porphyritic texture, local silicification; sericitic +/- clay alt'n; minor local hematitic alt'n assoc., w/ silicification; **2 - 4% disseminated py w/ rare local cpy within larger py patches**
114.33	143.60	**Diorite Breccia**: same as 51.95 to 86.59 m; somewhat more hetrolithic w/ sed fragments; **< 1% diss pyrite**
143.60	147.71	**Fault Zone:** gouge w/ rounded rock fragments; attitude is sub parallel w/ C.A.
147.71	175.18	**Diorite Breccia**: exact same as 114.33 to 143.60 except w/ rare 20 cm fragments of pinkish porphyritic granitic (?) clasts and 20 cm dioritic clasts
175.18	298.17	**Diorite**: light grey, fine to medium grained, semi pervasive silicification and local 'bleached' alt'n to clay (?); associated w/ the silicification is a weak to moderately developed **pyrite stringer stockwork**, stringers are < 1 - < 2 mm wide usually at 40 - 60 deg to C.A. py is usually assoc., w/ qtz and numerous anhydrite veinlets; **rare very fine grained cpy** - difficult to determine; stockwork persists through most of unit; local small breccia intervals **w/ 15 - 20% py** assoc., w/ patchy anhydrite; **3 5% pyrite as stringers and disseminated w/trace cpy.**
	E.O.H.	

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 775-356-5395 FAX: 775-355-0179

To: FREEPORT COPPER COMPANY

STE. 301 - 7400 NORTH ORACLE RD.
TUCSON, AZ
85704, USA

Project : ZYMO
Comments: ATTN: FRANK NELSON

Page Number : 4-A
Total Pages : 8
Certificate Date: 20-OCT-99
Invoice No. : I9930519
P.O. Number :
Account : RKX

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
2644	205 294	225	3.0	14	2600	34	34	0.2	121
2645	205 294	680	7.2	41	2680	13	72	1.0	70
2646	205 294	405	2.2	92	500	14	36	0.2	38
2647	205 294	140	1.8	65	1045	15	33	0.4	119
2648	205 294	75	3.8	27	1440	14	100	0.2	607
2649	205 294	70	3.8	19	1160	16	26	0.6	1185
2650	205 294	110	4.0	20	1195	21	98	0.8	670
2651	205 294	50	3.2	18	602	11	174	0.6	948
2652	205 294	45	3.8	19	1430	16	84	0.8	186
2653	205 294	90	4.4	31	626	10	170	3.0	541
2654	205 294	15	1.4	18	153	3	167	0.8	1825
2655	205 294	20	3.0	23	74	4	140	0.8	1230
2656	205 294	25	1.8	32	71	4	188	0.6	732
2657	205 294	65	2.4	40	258	3	304	1.0	1960
2658	205 294	25	1.0	14	21	6	82	1.0	144
2659	205 294	60	1.6	28	58	7	180	1.0	604
2660	205 294	25	0.6	28	54	4	53	0.4	97

ZY-03

58' 0.12% Cu

88' 0.09% Cu

128'

CERTIFICATION:

Chemex Labs, Inc.

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994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
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To: FREEPORT COPPER COMPANY **

STE. 301 - 7400 NORTH ORACLE RD.
TUCSON, AZ
85704, USA

Project : ZYMO
Comments: ATTN: FRANK NELSON

Page Number : 5-A
Total Pages : 8
Certificate Date: 20-OCT-99
Invoice No. : 19930519
P.O. Number :
Account : RKX

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2661	205 294	30	0.4	25	66	3	23	0.4	93		
2662	205 294	20	0.2	13	96	3	11	0.2	108		
2663	205 294	20	< 0.2	18	38	1	15	0.2	65		
2664	205 294	35	0.2	23	50	4	26	0.4	87		
2665	205 294	40	< 0.2	34	20	3	66	0.4	206		
2666	205 294	40	0.8	37	153	2	103	0.8	338		
2667	205 294	15	0.4	33	54	2	37	0.4	127		
2668	205 294	25	0.2	19	142	5	49	0.2	226		
2669	205 294	35	0.8	23	172	4	110	0.2	225		
2670	205 294	20	0.2	19	155	4	14	0.2	83		
2671	205 294	25	0.2	21	167	5	17	1.0	98		
2672	205 294	20	0.2	27	143	5	17	1.2	89		
2673	205 294	15	0.2	16	155	4	16	0.4	84		
2674	205 294	45	0.2	17	134	5	32	0.2	86		
2675	205 294	30	0.4	21	135	4	53	0.4	173		
2676	205 294	65	0.8	38	294	4	61	1.0	238		
2677	205 294	45	< 0.2	24	167	52	7	0.4	27		
2678	205 294	165	6.2	315	308	12	985	9.6	3260		
2679	205 294	75	0.4	21	311	10	9	1.0	45		
2680	205 294	60	0.2	5	368	15	9	0.2	43		
2681	205 294	70	0.2	7	401	16	9	0.2	55		
2682	205 294	55	0.4	15	288	11	16	< 0.2	86		
2683	205 294	40	0.4	16	361	8	21	< 0.2	123		
2684	205 294	50	0.8	16	541	10	17	< 0.2	106		
2685	205 294	90	0.6	18	486	9	13	0.2	121		
2686	205 294	50	1.8	43	843	10	31	1.2	123		
2687	205 294	45	0.2	22	448	11	17	0.2	71		
2688	205 294	65	0.2	18	375	15	13	< 0.2	67		
2689	205 294	50	0.6	22	330	13	16	0.2	101		
2690	205 294	90	1.0	23	411	14	39	< 0.2	91		
2691	205 294	150	1.2	27	255	22	40	0.6	54		
2692	205 294	65	0.6	18	342	14	31	0.4	98		
2693	205 294	45	1.0	21	307	7	69	1.4	1125		
2694	205 294	45	0.6	19	368	12	30	0.8	191		
2695	205 294	45	0.8	19	477	14	32	0.2	185		
2696	205 294	75	0.6	16	528	15	21	0.4	161		
2697	205 294	55	0.4	6	365	15	20	< 0.2	73		
2698	205 294	135	1.0	8	1160	11	21	< 0.2	57		
2699	205 294	40	0.8	4	576	15	15	< 0.2	69		
2700	205 294	60	1.0	6	777	10	26	< 0.2	63		

ZY-03

CERTIFICATION:

Chemex Labs, Inc.

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Account : RKX

CERTIFICATE OF ANALYSIS A9930519

ZY-03

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2701	205	294	35	0.8	3	420	19	31	< 0.2	93		
2702	205	294	70	5.2	94	959	19	502	35	3790		
2703	205	294	50	0.2	5	258	13	28	0.2	115		
2704	205	294	60	0.4	6	313	16	23	< 0.2	108		
2705	205	294	80	0.6	10	649	17	20	0.2	118		
2706	205	294	60	0.8	13	394	19	20	1.2	91		
2707	205	294	60	0.8	6	500	15	108	0.2	355		
2708	205	294	30	0.2	8	310	12	14	0.2	66		
2709	205	294	50	0.4	8	610	14	10	0.2	51		
2710	205	294	70	0.4	10	471	11	13	0.4	32		
2711	205	294	55	0.2	13	1060	15	9	0.6	20		
2712	205	294	85	0.6	11	510	13	17	0.4	103		
2713	205	294	50	0.8	9	533	10	29	0.4	253		
2714	205	294	50	0.4	9	332	10	16	0.4	111		
2715	205	294	80	0.2	8	414	11	17	0.2	63		
2716	205	294	35	0.2	7	224	10	7	0.4	35		

Zymo Drilling Results Drill Hole ZY-03

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2644	ZY-03	12.2	14.63	225	3	14	2600	34	34	0.2	121
2645	ZY-03	14.63	17.99	680	7.2	41	2680	13	72	1	70
2646	ZY-03	17.99	20.43	405	2.2	92	500	14	36	0.2	38
2647	ZY-03	20.43	23.78	140	1.8	65	1045	15	33	0.4	119
2648	ZY-03	23.78	26.22	75	3.8	27	1440	14	100	0.2	607
2649	ZY-03	26.22	27.13	70	3.8	19	1160	16	26	0.6	1185
2650	ZY-03	27.13	29.88	110	4	20	1195	21	98	0.8	670
2651	ZY-03	29.88	32.93	50	3.2	18	602	11	174	0.6	948
2652	ZY-03	32.93	35.98	45	3.8	19	1430	16	84	0.8	186
2653	ZY-03	35.98	39.02	90	4.4	31	626	10	170	3	543
2654	ZY-03	39.02	42.07	15	1.4	18	153	3	167	0.8	1825
2655	ZY-03	44.82	46.65	20	3	23	74	4	140	0.8	1230
2656	ZY-03	48.17	51.22	25	1.8	32	71	4	188	0.6	732
2657	ZY-03	57.32	60.37	65	2.4	40	258	3	304	1	1960
2658	ZY-03	66.46	69.51	25	1	14	21	6	82	1	144
2659	ZY-03	78.66	81.71	60	1.6	28	58	7	180	1	604
2660	ZY-03	90.85	93.9	25	0.6	28	54	4	53	0.4	97
2661	ZY-03	93.9	96.95	30	0.4	25	66	3	23	0.4	93
2662	ZY-03	96.95	100	20	0.2	13	96	3	11	0.2	108
2663	ZY-03	100	103.05	20	0.1	18	38	1	15	0.2	65
2664	ZY-03	103.05	106.1	35	0.2	23	50	4	26	0.4	87
2665	ZY-03	106.1	109.15	40	0.1	34	20	3	66	0.4	206
2666	ZY-03	109.15	112.2	40	0.8	37	153	2	103	0.8	338
2667	ZY-03	112.2	115.24	15	0.4	33	54	2	37	0.4	127
2668	ZY-03	121.34	124.39	25	0.2	19	142	5	49	0.2	226
2669	ZY-03	130.49	133.54	35	0.8	23	172	4	110	0.2	225
2670	ZY-03	140.55	143.6	20	0.2	19	155	4	14	0.2	83
2671	ZY-03	143.6	145.43	25	0.2	21	167	5	17	1	98

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2672	ZY-03	145.43	147.41	20	0.2	27	143	5	17	1.2	89
2673	ZY-03	147.41	150.3	15	0.2	16	155	4	16	0.4	84
2674	ZY-03	154.88	157.93	45	0.2	17	134	5	32	0.2	86
2675	ZY-03	164.02	167.07	30	0.4	21	135	4	53	0.4	173
2676	ZY-03	173.17	175.61	65	0.8	38	294	4	61	1	238
2677	ZY-03	175.61	179.27	45	0.1	24	167	52	7	0.4	27
2678	ZY-03	179.27	182.32	185	6.2	315	308	12	985	9.6	3260
2679	ZY-03	182.32	184.15	75	0.4	21	311	10	9	1	45
2680	ZY-03	184.15	187.2	60	0.2	5	368	15	9	0.2	43
2681	ZY-03	187.2	188.41	70	0.2	7	401	16	9	0.2	55
2682	ZY-03	188.41	191.46	55	0.4	15	288	11	16	0.1	86
2683	ZY-03	191.46	194.51	40	0.4	16	361	8	21	0.1	123
2684	ZY-03	194.51	197.56	50	0.8	16	541	10	17	0.1	106
2685	ZY-03	197.56	200.61	90	0.6	18	486	9	13	0.2	121
2686	ZY-03	200.61	203.66	50	1.8	43	843	10	31	1.2	123
2687	ZY-03	203.66	206.71	45	0.2	22	448	11	17	0.2	71
2688	ZY-03	206.71	209.76	65	0.2	18	375	15	13	0.1	67
2689	ZY-03	209.76	212.8	50	0.6	22	330	13	16	0.2	101
2690	ZY-03	212.8	215.85	90	1	23	411	14	39	0.1	91
2691	ZY-03	215.85	218.9	150	1.2	27	255	22	40	0.6	54
2692	ZY-03	218.9	221.95	65	0.6	18	342	14	31	0.4	98
2693	ZY-03	221.95	225	45	1	21	307	7	69	1.4	1125
2694	ZY-03	225	228.05	45	0.6	19	368	12	30	0.8	191
2695	ZY-03	228.05	231.1	45	0.8	19	477	14	32	0.2	185
2696	ZY-03	231.1	234.15	75	0.6	16	528	15	21	0.4	161
2697	ZY-03	234.15	237.2	55	0.4	6	365	15	20	0.1	73
2698	ZY-03	237.2	240.24	135	1	8	1160	11	21	0.1	57
2699	ZY-03	240.24	243.29	40	0.8	4	576	15	15	0.1	69
2700	ZY-03	243.29	246.34	60	1	6	777	10	26	0.1	63
2701	ZY-03	246.34	249.39	35	0.8	3	420	19	31	0.1	93
2702	ZY-03	249.39	252.44	70	5.2	94	959	19	502	35	3790
2703	ZY-03	252.44	255.49	50	0.2	5	258	13	28	0.2	115

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2704	ZY-03	255.49	258.54	60	0.4	6	313	16	23	0.1	108
2705	ZY-03	258.54	261.59	80	0.6	10	649	17	20	0.2	118
2706	ZY-03	261.59	264.63	60	0.8	13	394	19	20	1.2	91
2707	ZY-03	264.63	267.68	60	0.8	6	500	15	108	0.2	355
2708	ZY-03	267.68	270.73	30	0.2	8	310	12	14	0.2	66
2709	ZY-03	270.73	273.78	50	0.4	8	610	14	10	0.2	51
2710	ZY-03	273.78	276.83	70	0.4	10	471	11	13	0.4	32
2711	ZY-03	276.83	279.88	55	0.2	13	1060	15	9	0.6	20
2712	ZY-03	279.88	282.93	85	0.6	11	510	13	17	0.4	103
2713	ZY-03	282.93	285.98	50	0.8	9	533	10	29	0.4	253
2714	ZY-03	285.98	289.02	50	0.4	9	332	10	16	0.4	111
2715	ZY-03	289.02	292.07	80	0.2	8	414	11	17	0.2	63
2716	ZY-03	292.07	295.12	35	0.2	7	224	10	7	0.4	35
2717	ZY-03	295.12	298.17	40	0.2	16	262	12	10	1.4	46

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Diamond Drill Hole Log
Drill Hole # ZY - 99 - 04

Project: ZYMO
Location: Omineca Mining Div.
BC. CANADA
Co-ordinates: N 6076259
E 566838
Collar Elevation:
Bearing: N/A Dip: - 90 °

Core Size: NQ II

SAMPLE SERES: 4484.4486 & 4487

Date Collared: Sept 16, 1999
Date Finished: Sept 17, 1999

Final Depth: 35.98 (m)

Logged By: B. LaPeare

From Meters	To	Geological Description
0.0	7.62	**Casing / Overburden**
7.62	35.98	**Shale:** very fine grained, black, massive w/ no visible bedding or laminae; extremely poor RQD throughout, highly fractured; rare local carb stringers (@20.12 m), rare local diagenetic pyrite at 20.73 m - unit exhibits highly graphitic intervals @ 15.24 - 18.29 m and 24.39 – 35.98 m; remainder of interval exhibits weak to moderate graphite

RECOVERIES:

Interval m	Percentage Recovery	Interval m	Percentage Recovery
7.62 - 8.54	35%	21.95 - 23.78	90%
8.54 - 9.45	35%	23.78 - 24.70	60%
9.45 - 10.67	20%	24.70 - 25.91	55%
10.67 - 11.59	15%	25.91 - 26.83	90%
11.59 - 12.20	85%	26.83 - 28.05	95%
12.20 - 14.63	30%	28.05 - 29.45	90%
14.63 - 15.24	53%	29.45 - 29.88	85%
15.24 - 17.68	55%	29.88 - 31.40	85%
17.68 - 18.90	95%	31.40 - 32.93	75%
18.90 - 19.82	95%	32.93 - 35.98	30%
19.82 - 21.95	85%		

All recoveries are estimated only due to highly fractured nature

Zymo Drilling Results *Drill Hole ZY-04 (No samples were taken)*

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)

FREEPORT COPPER COMPANY

Diamond Drill Hole Log
Drill Hole # ZY – 99 - 05

Project: ZYMO
Location: Omineca Mining Div.
BC. CANADA
Co-ordinates: N 6075268
E 567805
Collar Elevation:
Bearing: N/A Dip: - 90 °

Date Collared: Sept 18. 1999
Date Finished: Sept 19. 1999

Core Size: NQ II

SAMPLE SERIES: 2718 - 2749

Final Depth: 289.02 (m)

Logged By: B. LaPeare

From Meters	To	Geological Description
	3.66	**Casing / Overburden**
3.66	77.74	**Dioritic (?) Hetrolithic Breccia:** fine to very fine grained, massive matrix varies from light dull beige to brownish grey to locally light weak green, diffuse but visible plagioclase phenocrysts are visible locally; matrix supports 15 - 25% subangular fragments (can range from 5 - 50% locally) of diorite, granodiorite, granitic, cherty volcanics and minor sedimentary clastics - very mixed with no zonation; fragments range from 1 - 3 cm across but can range from < 5 mm to > 10 cm locally; rare calcic veinlets; **unit exhibits 1% pyrite as disseminated**
77.74	80.18	**Altered Diorite Breccia**: mottled beige sericitic alt'n of matrix is overprinted by stringers to semi massive dk grey alt'n of possible clay mineral; fragments are < 7% of small unit - unit marks gradational contact between upper heterolithic bx and lower diorite breccia; **< 1% diss pvrite**
80.18	99.70	**Diorite Breccia:** fine to med gr., porphyritic matrix w/ 20 - 25% subangular fragments; fragments are > 90% silicified diorite to porphyritic granodiorite; fragments are generally 1 - 3 cm across and subrounded; minor calcic stringers; < 1% diss pyrite
99.70	104.88	**Fault (?) Zone**: patchy but well developed clay alt'n exhibiting unconsolidated rock fragments - weakly carbonated - clav MAY BE due to h'thermal calcic alt'n
104.88	204.27	**Diorite Breccia:** exact same as 80.18 to 99.70 m; breccia fragments decrease overall but still numerous locally; diorite/porphyritic texture more evident; py only visible in local fragments; majority of clasts are fine grained and highly siliceous; local calcic veinlets; lower contact is evident due to abrupt absence of fragments; **1% diss py**
204.27	255.18	**Diorite:** typical porphyritic diorite texture w/ 25 - 40% subhedral med gr mostly equant plagioclase phenocrysts; local qtz abd qtz + carb veinlets exhibit extensive wall rock sericitic (?) + silica alt'n - this is evidenced throughout and gives the unit a mottled appearance; **3 - 4% py throughout as disseminated, in qtz stringers and as very thin stringers**
255.18	258.23	**Intermediate Porphyry Dyke:** fine gr., pale green matrix w/ 20 - 25% med to coarse gr., euhedral plag phenocrysts "textbook porphyritic texture"; unit is locally alt'd by silicification masking phenocrysts - < 5% of phenocrysts are euhedral biotite; **< 1% py**
258.23	284.45	**Diorite**: same as 204.27 – 255.18; **NOTE: @ 268.29m a .4 m wide vein of qtz+calc+mag+py+cpy w/ extensive wall rock alt'n to buff clay w/ 15% py**
284.45	289.02	**Intermediate Porphyry Dyke:** same as 255.18 to 258.23 except lower 2.44 m. is dark brown and exhibits amygdules- **locally disseminated is a dark grey, very fine gr., sulphide probably galena**

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

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To: FREEPORT COPPER COMPANY

STE. 301 - 7400 NORTH ORACLE RD.
TUCSON, AZ
85704, USA

Project : ZYMO
Comments: ATTN: FRANK NELSON

Page Number :6-A
Total Pages :8
Certificate Date: 20-OCT-99
Invoice No. :19930519
P.O. Number :
Account :RKX

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2717	205 294	40	0.2	16	262	12	10	1.4	46		
2718	205 294	10	0.2	19	122	8	25	10.0	112		
2719	205 294	10	0.2	13	123	8	20	8.2	86		
2720	205 294	5	0.2	19	109	6	22	2.0	86		
2721	205 294	< 5	0.4	7	136	6	109	1.0	307		
2722	205 294	< 5	0.2	26	120	6	40	0.8	132		
2723	205 294	< 5	0.6	15	120	4	69	1.0	195		
2724	205 294	< 5	0.2	19	107	5	26	1.8	98		
2725	205 294	< 5	0.6	12	130	7	60	1.0	235		
2726	205 294	< 5	0.2	11	127	5	45	0.8	162		
2727	205 294	< 5	0.2	12	120	9	47	1.4	131		
2728	205 294	5	0.2	11	133	6	38	0.8	144		
2729	205 294	< 5	0.4	33	131	7	48	16.5	163		
2730	205 294	< 5	0.4	20	136	6	42	2.0	148		
2731	205 294	10	0.4	10	119	4	74	1.2	177		
2732	205 294	10	0.4	36	132	5	44	2.6	188		
2733	205 294	15	0.6	13	128	6	76	1.0	246		
2734	205 294	10	0.4	54	153	7	51	1.6	151		
2735	205 294	10	0.6	54	125	8	84	1.2	239		
2736	205 294	45	0.6	8	306	4	30	0.2	139		
2737	205 294	40	0.2	12	181	9	15	0.2	82		
2738	205 294	30	0.2	5	192	9	7	0.2	86		
2739	205 294	45	0.2	6	301	5	10	0.2	64		
2740	205 294	30	0.8	15	795	8	15	0.4	83		

ZY-05

CERTIFICATION

Chemex Labs, Inc.

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Project : ZYMO
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NY-05

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2741	205 294	55	0.2	9	374	9	13	0.2	58		
2742	205 294	40	0.2	15	299	22	26	0.2	60		
2743	205 294	< 5	< 0.2	10	65	1	5	0.2	45		
2744	205 294	65	0.4	48	481	10	23	< 0.2	112		
2745	205 294	110	0.8	15	924	23	15	< 0.2	54		
2746	205 294	40	0.2	22	411	13	11	18.0	66		
2747	205 294	45	0.2	15	273	12	23	0.2	107		
2748	205 294	70	0.2	12	533	9	19	0.4	57		
2749	205 294	< 5	< 0.2	13	25	< 1	9	< 0.2	46		

Zymo Drilling Results Drill Hole ZY-05

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2718	ZY-05	8.54	11.59	10	0.2	19	122	8	25	10	112
2719	ZY-05	20.73	23.78	10	0.2	13	123	8	20	8.2	86
2720	ZY-05	32.93	35.98	5	0.2	19	109	6	22	2	86
2721	ZY-05	45.12	48.17	2.5	0.4	7	136	6	109	1	307
2722	ZY-05	57.32	60.37	2.5	0.2	26	120	6	40	0.8	132
2723	ZY-05	69.51	72.56	2.5	0.6	15	120	4	69	1	195
2724	ZY-05	77.74	80.18	2.5	0.2	19	107	5	26	1.8	98
2725	ZY-05	87.8	90.85	2.5	0.6	12	130	7	60	1	235
2726	ZY-05	96.95	100	2.5	0.2	11	127	5	45	0.8	162
2727	ZY-05	100	103.05	2.5	0.2	12	120	9	47	1.4	131
2728	ZY-05	112.2	115.24	5	0.2	11	133	6	38	0.8	144
2729	ZY-05	124.39	127.44	2.5	0.4	33	131	7	48	16.5	163
2730	ZY-05	136.59	139.63	2.5	0.4	20	136	6	42	2	148
2731	ZY-05	148.78	151.83	10	0.4	10	119	4	74	1.2	177
2732	ZY-05	160.98	164.02	10	0.4	36	132	5	44	2.6	188
2733	ZY-05	167.07	170.12	15	0.6	13	128	6	76	1	246
2734	ZY-05	179.27	185.37	10	0.4	54	153	7	51	1.6	151
2735	ZY-05	194.51	197.56	10	0.6	54	125	8	84	1.2	239
2736	ZY-05	206.71	209.76	45	0.6	8	306	4	30	0.2	139
2737	ZY-05	209.76	212.8	40	0.2	12	181	9	15	0.2	82
2738	ZY-05	215.85	218.9	30	0.2	5	192	9	7	0.2	86
2739	ZY-05	225	228.05	45	0.2	6	301	5	10	0.2	64
2740	ZY-05	234.15	237.2	30	0.8	15	795	8	15	0.4	83
2741	ZY-05	240.24	243.29	55	0.2	9	374	9	13	0.2	58
2742	ZY-05	252.44	255.18	40	0.2	15	299	22	26	0.2	60
2743	ZY-05	255.18	258.23	2.5	0.1	10	65	1	5	0.2	45
2744	ZY-05	261.59	264.63	65	0.4	48	481	10	23	0.1	112
2745	ZY-05	267.38	270.43	110	0.8	15	924	23	15	0.1	54

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2746	ZY-05	270.43	273.48	40	0.2	22	411	13	11	18	66
2747	ZY-05	279.88	282.93	45	0.2	15	273	12	23	0.2	107
2748	ZY-05	282.93	285.98	70	0.2	12	533	9	19	0.4	57
2749	ZY-05	285.98	289.02	2.5	0.1	13	25	0.5	9	0.1	46

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Diamond Drill Hole Log
Drill Hole # ZY - 99 - 06

Date Collared: Sept 22, 1999

Date Finished: Sept 24 .] 999

Project: ZYMO
Location: Omineca Mining Div.
BC. CANADA
Co-ordinates: N 6076412
E 567016
Collar Elevation:
Bearing: N/A Dip: - 90 °

Core Size: NQ II

SAMPLE SERIES: 2750 - 2811

Final Depth: 255.49 (m)

Logged By: B. LaPeare

From Meters	To	Geological Description
	8.54	**Casing / Overburden**
8.54	23.78	**Granodiorite:** dk to med grey, fine grained siliceous (silicified) matrix w/ 15 - 25% subhedral white med gr plagioclase phenocrysts; porphyritic texture well preserved to diffuse due to local silicification; 2 - 5% pyrite is most comrnon fractures but also disseminated
23.78	36.89	**Altered Granodiorite**: same as above except unit is much lighter in colour and easier to scratch; this may be due to 'anhydrite flooding' as the unit exhibits high density of anhy veinlets and is contact with extensive anhydrite vein (see 36.89 to 38.41 m); **increase in py up to 7% disseminated and within the anhy and qtz stringers**
36.89	38.41	**Anhydrite Vein:** ranges from white massive anhy +/- gypsum to more mottled grey due to **presence of patchy well developed pyrite (10%) and </= 1% galena + sph**
38.41	255.49	**Granodiorite:** same as 8.54 to 23.78 m except porphyritic texture is more evident but still absent locally; unit becomes highly siliceous; **pyrite ranges from < 2 to 7% mostly disseminated as veining is rare, but does occur w/ local low density anhy veinlets;** where anhy veining increases locally at 332 - 336 unit exhibits a quasi breccia texture w/ **one anhy veinlet exhibiting minor sph + py;** distinctive feature of this unit is local round "knots" of chl (???) with pyrite < 1 - 2 cm across; rare xenoliths +/- py altered rims; **rare galena in qtz stringer @ 218.6 m**

Chemex Labs, Inc.

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TUCSON, AZ
85704, USA

Project : ZYMO
Comments: ATTN: FRANK NELSON

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Certificate Date: 20-OCT-99
Invoice No. : 19930519
P.O. Number :
Account : RKX

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2750	205 294	25	1.0	4	720	20	75	< 0.2	279		
2751	205 294	25	0.8	5	395	10	9	0.2	106		
2752	205 294	50	1.6	46	854	17	126	1.4	385		
2753	205 294	55	11.0	59	1280	16	2250	2.4	2140		
2754	205 294	40	2.6	27	679	13	417	1.4	2290		
2755	205 294	315	20.6	789	3200	13	3570	66	>10000		
2756	205 294	85	3.8	185	934	30	648	11.0	2000		
2757	205 294	10	0.8	15	174	17	349	0.4	693		
2758	205 294	< 5	0.2	13	102	14	60	< 0.2	110		
2759	205 294	10	0.8	20	185	18	165	1.0	973		
2760	205 294	50	0.8	30	101	14	105	0.4	276		
2761	205 294	10	0.6	9	227	18	105	< 0.2	363		
2762	205 294	15	1.4	13	435	10	218	0.4	752		
2763	205 294	75	3.8	71	835	10	1560	5.2	2530		
2764	205 294	5	0.8	20	384	5	69	0.6	161		
2765	205 294	< 5	0.2	6	137	17	37	< 0.2	129		
2766	205 294	15	0.4	22	299	5	102	< 0.2	248		
2767	205 294	5	0.4	9	146	3	33	0.2	164		
2768	205 294	55	8.2	120	1565	15	613	1.4	3510		
2769	205 294	10	0.8	9	163	2	242	0.2	423		
2770	205 294	< 5	< 0.2	7	67	3	14	0.2	41		
2771	205 294	10	< 0.2	8	201	4	18	0.4	42		
2772	205 294	10	3.4	161	618	8	429	7.0	1405		
2773	205 294	< 5	0.4	16	74	2	37	0.4	97		
2774	205 294	< 5	0.2	10	32	3	97	0.2	154		
2775	205 294	< 5	0.2	9	54	< 1	36	0.2	96		
2776	205 294	5	0.2	10	47	1	25	0.4	109		
2777	205 294	< 5	< 0.2	8	29	3	21	0.2	36		
2778	205 294	90	0.8	19	310	3	117	0.4	224		
2779	205 294	10	0.8	28	139	1	85	0.8	135		
2780	205 294	5	0.2	12	123	1	61	0.4	137		

ZY-06

CERTIFICATION:

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

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TUCSON, AZ
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Project : ZYMO
Comments: ATTN: FRANK NELSON

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Account : RKX

CERTIFICATE OF ANALYSIS A9930519

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
2781	205	294	15	< 0.2	4	24	3	30	0.2	53		
2782	205	294	5	0.2	10	48	3	52	0.2	85		
2783	205	294	20	0.8	19	170	4	83	1.2	332		
2784	205	294	60	0.6	23	101	1	51	1.6	76		
2785	205	294	10	0.8	14	130	1	220	2.0	495		
2786	205	294	5	0.4	14	82	3	93	0.8	255		
2787	205	294	25	0.8	14	238	1	90	0.6	145		
2788	205	294	20	0.8	11	145	< 1	136	0.4	281		
2789	205	294	50	0.8	17	151	2	269	0.6	1640		
2790	205	294	65	1.0	14	483	2	105	0.8	263		
2791	205	294	5	< 0.2	9	25	1	20	0.2	40		
2792	205	294	30	0.8	8	136	1	133	0.4	416		
2793	205	294	220	3.0	50	154	3	1225	5.0	3160		
2794	205	294	20	0.2	16	65	23	32	0.6	81		
2795	205	294	20	0.6	14	101	11	282	0.6	667		
2796	205	294	75	1.2	94	669	1	38	3.6	392		
2797	205	294	455	0.4	8	1350	1	53	0.4	170		
2798	205	294	50	< 0.2	8	257	< 1	65	0.6	145		
2799	205	294	130	2.4	18	875	1	173	6.4	441		
2800	205	294	215	3.2	52	1495	2	184	1.8	253		
2801	205	294	50	1.4	45	436	< 1	140	1.0	446		
2802	205	294	15	0.8	12	192	1	98	0.2	341		
2803	205	294	30	1.6	121	702	19	39	12.0	140		
2804	205	294	30	0.4	5	61	1	72	0.4	179		
2805	205	294	15	1.4	35	301	1	162	2.4	570		
2806	205	294	10	0.4	20	86	2	89	3.0	217		
2807	205	294	10	0.8	17	78	< 1	466	2.8	1730		
2808	205	294	30	< 0.2	7	41	1	15	0.2	43		
2809	205	294	20	< 0.2	3	22	< 1	14	< 0.2	21		
2810	205	294	5	0.2	6	48	2	54	0.2	106		
2811	205	294	5	0.2	5	65	< 1	50	0.4	126		

ZY-06

311 samples

CERTIFICATION

Zymo Drilling Results Drill Hole ZY-06

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2750	ZY-06	11.59	14.63	25	1	4	720	20	75	0.1	279
2751	ZY-06	20.73	23.78	25	0.8	5	395	10	9	0.2	106
2752	ZY-06	29.88	32.93	50	1.6	46	854	17	126	1.4	385
2753	ZY-06	32.93	34.76	55	11	59	1280	16	2250	2.4	2140
2754	ZY-06	34.76	36.89	40	2.6	27	679	13	417	1.4	2290
2755	ZY-06	36.89	38.41	315	20.6	789	3200	13	3570	66	10005
2756	ZY-06	38.41	41.16	85	3.8	185	934	30	648	11	2000
2757	ZY-06	45.12	48.17	10	0.8	15	174	17	349	0.4	663
2758	ZY-06	48.17	51.22	2.5	0.2	13	102	14	60	0.1	110
2759	ZY-06	51.22	54.27	10	0.8	20	185	18	165	1	973
2760	ZY-06	60.37	63.41	50	0.8	30	101	14	105	0.4	276
2761	ZY-06	69.51	72.56	10	0.6	9	227	18	105	0.1	363
2762	ZY-06	78.66	81.71	15	1.4	13	435	10	238	0.4	752
2763	ZY-06	81.71	84.76	75	3.8	71	835	10	1560	5.2	2530
2764	ZY-06	84.76	87.8	5	0.8	20	384	5	69	0.6	161
2765	ZY-06	87.8	90.85	2.5	0.2	6	137	17	37	0.1	129
2766	ZY-06	93.9	96.95	15	0.4	22	299	5	102	0.1	248
2767	ZY-06	96.95	100	5	0.4	9	146	3	33	0.2	164
2768	ZY-06	100	103.05	55	8.2	120	1565	15	613	1.4	3510
2769	ZY-06	103.05	106.1	10	0.8	9	163	2	242	0.2	423
2770	ZY-06	109.15	112.2	2.5	0.1	7	67	3	14	0.2	41
2771	ZY-06	112.2	115.24	10	0.1	8	201	4	18	0.4	42
2772	ZY-06	115.24	118.29	10	3.4	161	618	8	429	7	1405
2773	ZY-06	118.29	121.34	2.5	0.4	16	74	2	37	0.4	97
2774	ZY-06	121.34	124.39	2.5	0.2	10	32	3	97	0.2	154
2775	ZY-06	124.39	127.44	2.5	0.2	9	54	0.5	36	0.2	96
2776	ZY-06	127.44	130.49	5	0.2	10	47	1	25	0.4	109
2777	ZY-06	130.49	133.54	2.5	0.1	8	29	3	21	0.2	36

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2778	ZY-06	133.54	136.59	90	0.8	19	310	3	117	0.4	224
2779	ZY-06	136.59	139.63	10	0.8	28	139	1	85	0.8	135
2780	ZY-06	139.63	142.68	5	0.2	12	123	1	61	0.4	137
2781	ZY-06	142.68	145.73	15	0.1	4	24	3	30	0.2	53
2782	ZY-06	145.73	148.78	5	0.2	10	48	3	52	0.2	85
2783	ZY-06	148.78	151.83	20	0.8	19	170	4	83	1.2	332
2784	ZY-06	151.83	154.88	60	0.6	23	101	1	51	1.6	76
2785	ZY-06	154.88	157.93	10	0.8	14	130	1	220	2	495
2786	ZY-06	157.93	160.98	5	0.4	14	82	3	93	0.8	255
2787	ZY-06	160.98	164.02	25	0.8	14	238	1	90	0.6	145
2788	ZY-06	164.02	167.07	20	0.8	11	145	0.5	136	0.4	281
2789	ZY-06	167.07	170.12	50	0.8	17	151	2	269	0.6	1640
2790	ZY-06	170.12	173.17	65	1	14	483	2	105	0.8	263
2791	ZY-06	185.06	188.11	5	0.1	9	25	1	20	0.2	40
2792	ZY-06	191.46	194.51	30	0.8	8	136	1	133	0.4	416
2793	ZY-06	197.56	200.61	220	3	50	154	3	1225	5	3160
2794	ZY-06	200.61	203.66	20	0.2	16	65	23	32	0.6	81
2795	ZY-06	203.66	206.71	20	0.6	14	101	11	282	0.6	667
2796	ZY-06	206.71	209.76	75	1.2	94	669	1	38	3.6	392
2797	ZY-06	209.76	212.8	455	0.4	8	1350	1	53	0.4	70
2798	ZY-06	212.8	215.85	50	0.1	8	257	0.5	65	0.6	145
2799	ZY-06	215.85	218.9	130	2.4	18	875	1	173	6.4	441
2800	ZY-06	218.9	221.95	215	3.2	52	1495	2	184	1.8	253
2801	ZY-06	221.95	225	50	1.4	45	436	0.5	140	1	446
2802	ZY-06	225	228.05	15	0.8	12	192	1	98	0.2	341
2803	ZY-06	228.05	231.1	30	1.6	121	702	19	39	12	140
2804	ZY-06	231.1	234.15	30	0.4	5	61	1	72	0.4	179
2805	ZY-06	234.15	237.2	15	1.4	35	301	1	162	2.4	570
2806	ZY-06	237.2	240.24	10	0.4	20	86	2	89	3	217
2807	ZY-06	240.24	243.29	10	0.8	17	78	0.5	466	2.8	1730
2808	ZY-06	243.29	246.34	30	0.1	7	41	1	15	0.2	43
2809	ZY-06	246.34	249.39	20	0.1	3	22	0.5	14	0.1	21

Sample	Hole	From-meter	To-meter	Au (5ppb)	Ag (0_2ppm)	As (1ppm)	Cu (1ppm)	Mo (1ppm)	Pb (1ppm)	Sb (0_2ppm)	Zn (1ppm)
2810	ZY-06	249.39	252.44	5	0.2	6	48	2	54	0.2	106
2811	ZY-06	252.44	255.49	5	0.2	5	65	0.5	50	0.4	126

26,152

FIG:4

4-Post Mineral Claims . Zymo:7,8,9,10.

ZYMQ

Location of Drillholes Zy-1 through Zy-6

ZY-01
ZY-02
ZY-03
ZY-04
ZY-05
ZY-06

Kitsup Creek
Mehwan Creek
Red Canyon Cr.
ASHMAN RIDGE
Icefield

SEE MAP 1031.090
SEE MAP 93L.082
SEE MAP 93L.071

54°54'00"
128°00'00"
54°48'00"
127°48'00"

THIS MAP HAS BEEN DIGITIZED BY INVENTORY BRANCH, MINISTRY OF FORESTS. NORTH AMERICAN DATUM 1983. DIGITAL BASE MAP FROM TERRAIN RESOURCE INFORMATION MANAGEMENT DIGITIZED BY SURVEYS AND RESOURCE MAPPING BRANCH, MINISTRY OF ENVIRONMENT, LANDS AND PARKS.	U.T.M. GRID ZONE 9 (1975) BASE : PHOTOGRAMMETRIC DIGITIZED BY: I.M.T. DATE: DEC. 1996 REVISED BY: SIMON WALTER DATE: JAN. 1998	TIMBER SUPPLY AREA - BULKLEY / KISPIOX OWNERSHIP STATUS - DEC. 1995 LABELS PROJECTED TO - 1998 LAND DISTRICT - RANGE 5 COAST F. C. DISTURBANCES UPDATED TO - AUG. 1997	FOREST COVER MAP SERIES 0 500 1000 1500 Metres SCALE 1:20 000 SERIAL : 093L081 1998-APR-09 009	THE DATA PORTRAYED ON THIS MAP IS STORED IN DIGITAL FORM AND IS STRUCTURED TO SUPPORT THE ANALYTICAL FUNCTIONS OF THE FOREST RESOURCE INFORMATION SYSTEM.	PRODUCED BY **INVENTORY BRANCH** MINISTRY OF FORESTS PROVINCE OF BRITISH COLUMBIA	93L.081

BEEN PLACED:


CANADA
EDITION 2
93 L/13
EDITION 2
Canada
ÉDITION 2
McDONELL LAKE
93 L/13
FIG:3
Topographic Location
Zymo #07 to Zymo #17
Mineral Claims
SKEENA
HAZELTON
PROVINCIAL
FOREST
MOUNTAINS
RANGES
SMITHERS
PROVINCIAL
FOREST
BULKLEY RANGES
(HAZELTON MOUNTAINS)
ROCKY RIDGE
HUDSON BAY RANGE
McDonell Lake
16
17
15
8
7
14
10
9
11
12
13
DORREEN
BRITISH COLUMBIA
Scale 1:50,000 Échelle
McDONELL LAKE
BRITISH COLUMBIA COLOMBIE-BRITANNIQUE
Scale 1:50 000 Échelle