DRILL REPORT

ON THE

MOUSE MOUNTAIN PROPERTY

NTS 93G/1 and 93B/16

Latitude 53° 02'
Longitude 122° 19'

Claims:
Mouse, Mouse 2, Lyn 1, Excel 5, QM 1, QM 2, Excel 2, Excel 3, MTN, MTN #2, Beaver 1, Beaver 2, MM 1, MM 2, MM 3

Cariboo Mining Division

by

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July 15, 1992

SUMMARY

The Mouse Mountain Property, optioned from Quesnel Mines Limited in December of 1990, is located 15 kilometres east-northeast of Quesnel B.C. between the Quesnel River and Cottonwood River. It includes 219 claim units and is readily accessible via the Quesnel-Barkerville highway that crosses through the centre of the property.

Most of the previous exploration work has been focused on copper-gold showings found in the immediate vicinity of Mouse Mountain, located in what is now the centre of the property. A carload of hand sorted ore was produced from copper-gold-silver showing in 1956. An attempt was made by Euclid Mining corporation to leach low grade copper mineralization from this area in 1967. Other work consisted of percussion drilling (Bethlehem Copper, 1970, Dupont of Canada Limited, 1970), soil sampling (Hudson's Bay Oil and Gas Company, 1974, First Nuclear Corporation, 1981-1984, Placer Dome Inc., 1989), trenching (Quesnel Mines Ltd., 1986) and VLF-EM, Magnetometer and I.P. surveys (Quesnel Mines Ltd., 1986, Placer Dome Inc., 1989). Minor low grade copper mineralization was found in the Mouse Mountain area in volcanic rocks surrounding alkalic stocks.

Teck Exploration Ltd. conducted 150 line kilometres of magnetometer/VLF-EM surveys and 9.5 line kilometres of I.P. surveys in 1991. Several 200 to 600 metre diameter magnetic highs were found in an area extending from Mouse Mountain to the southwestern property boundary. Chargeability anomalies were located on the southern and western edges of Mouse Mountain. In October of 1991 a 915 metre drill program conducted in the Mouse Mountain area failed to intersect any mineralizion of significant size and grade.

The claims are situated in the central part of a narrow northwesterly trending assemblage of Upper Triassic and Lower Jurassic island arc volcanics and associated sedimentary facies known as the Quesnel belt. The western boundary of the central Quesnel belt, which is located close to the Mouse Mountain property, is often obscured by overburden and Tertiary volcanics. This boundary is thought to be marked by a high angle extension of the Pinchi fault, a major strike slip to the northwest. The eastern boundary is marked by the Eureka thrust. The most important mineral occurrences in the area, usually consisting of copper with associated gold, are found within or adjacent to alkalic stocks that intrude the central Quesnel belt. The two most important deposits in the area are the Mt. Polley copper-gold deposit and the QR gold deposit (with associated copper).

The majority of the outcrop on the property is found in the Mouse Mountain area in the centre of the property. Most of the property is underlain by a northwesterly trending assemblage of

basaltic rocks and heterolithic felsic breccias. Stocks ranging in composition from syenite to monzodiorite-diorite cut the intrusive and volcanic breccias at two locations in the Mouse Mountain area.

Disseminated pyrite, chalcopyrite and bornite is found at some locations in potassically or propylitically altered siliceous breccias near intrusive contacts. The four main showings in the area are found in a northwesterly trending linear zone along the eastern edge of Mouse Mountain. Chloritic alteration is pervasive throughout most the Mouse Mountain area. Pyritic zones are found along the northern, southern and eastern margins of Mouse Mountain. Potassic alteration occurs along the top of Mouse Mountain and extends towards its eastern edge. Southeast of Mouse Mountain propylitically altered basalts with a pervasive chlorite and calcite overprinting are thought to be similar to the unit that hosts gold mineralization at the QR deposit.

In June of 1992 seven holes totalling 951 metres were drilled in the Mouse Mountain area. The only significant mineralization was returned from holes drilled underneath the "valentine zone". A 24.3 metre interval containing 0.3% copper and 230 ppb gold and a 45 metre intersection containing 0.2% copper and 107 ppb gold were intersected.

The Mouse Mountain area has been adequately tested. The extent of the mineralization found is not large and chances of finding a large body of porphyry style mineralization in this area are small. Several prominent magnetic highs are found between the Mouse Mountain area and altered intrusive rocks found in the southwestern corner of the property. Follow-up I.P. surveys and soil geochemistry surveys could help delineate drill targets in this area.

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INTRODUCTION

Teck Corporation optioned the Mouse Mountain property (Figure 1) from Quesnel Mines Limited in December of 1989. This report describes exploration work completed by Teck Exploration Ltd. between June 1, 1992 and June 29, 1992. Work undertaken during this time period consisted of 951 metres, 7 holes, of diamond drilling producing NQ core.

LOCATION AND ACCESS

The Mouse Mountain property is located 15 kilometres east-northeast of Quesnel in south-central British Columbia, between the Cottonwood River and the Quesnel River. The Quesnel-Barkerville Highway crosses through the centre of the property. A secondary exploration road that originates at the Quesnel-Barkerville Highway provides access to the survey area described in this report. A network of old logging and exploration roads provides easy access to much of the property.

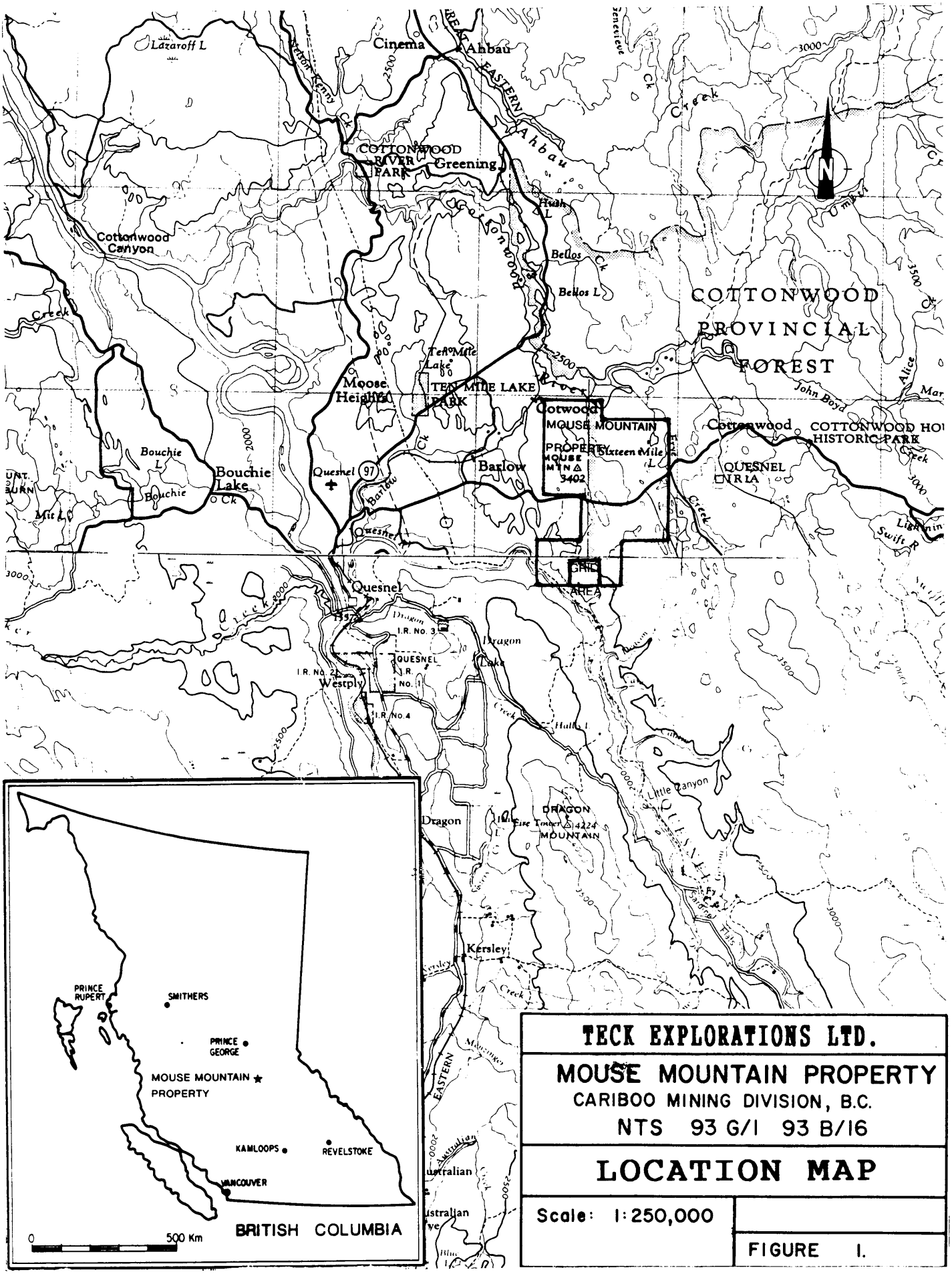
PHYSIOGRAPHY

The claims are found within the Fraser Basin of the Interior Plateau. Relief varies from a high of 1025 metres on Mouse Mountain in the centre of the property to a low of 518 metres along the Quesnel River in the southwest corner of the property. Low cliffs and steep bluffs are found in the vicinity of Mouse Mountain with gently rolling hills sloping away from Mouse Mountain in all directions.

Vegetation consists of second growth spruce, fir, balsam, cedar, birch and poplar with moderate undergrowth consisting of willow, alder, devil's club and other minor shrubs. The region contains several areas cleared for agriculture and logging and minor small lakes and swampy depressions.

CLAIM STATUS AND OWNERSHIP

The property consists of 15 contiguous claims comprising a total of 219 units (Figure 3). The claims, owned by Teck Corporation, are currently subject to an option agreement with Quesnel Mines Limited completed in December of 1990. Status and ownership of the claims are listed on the following page.



TECK EXPLORATIONS LTD.

MOUSE MOUNTAIN PROPERTY

CARIBOO MINING DIVISION, B.C.

NTS 93 G/1 93 B/16

LOCATION MAP

Scale: 1:250,000

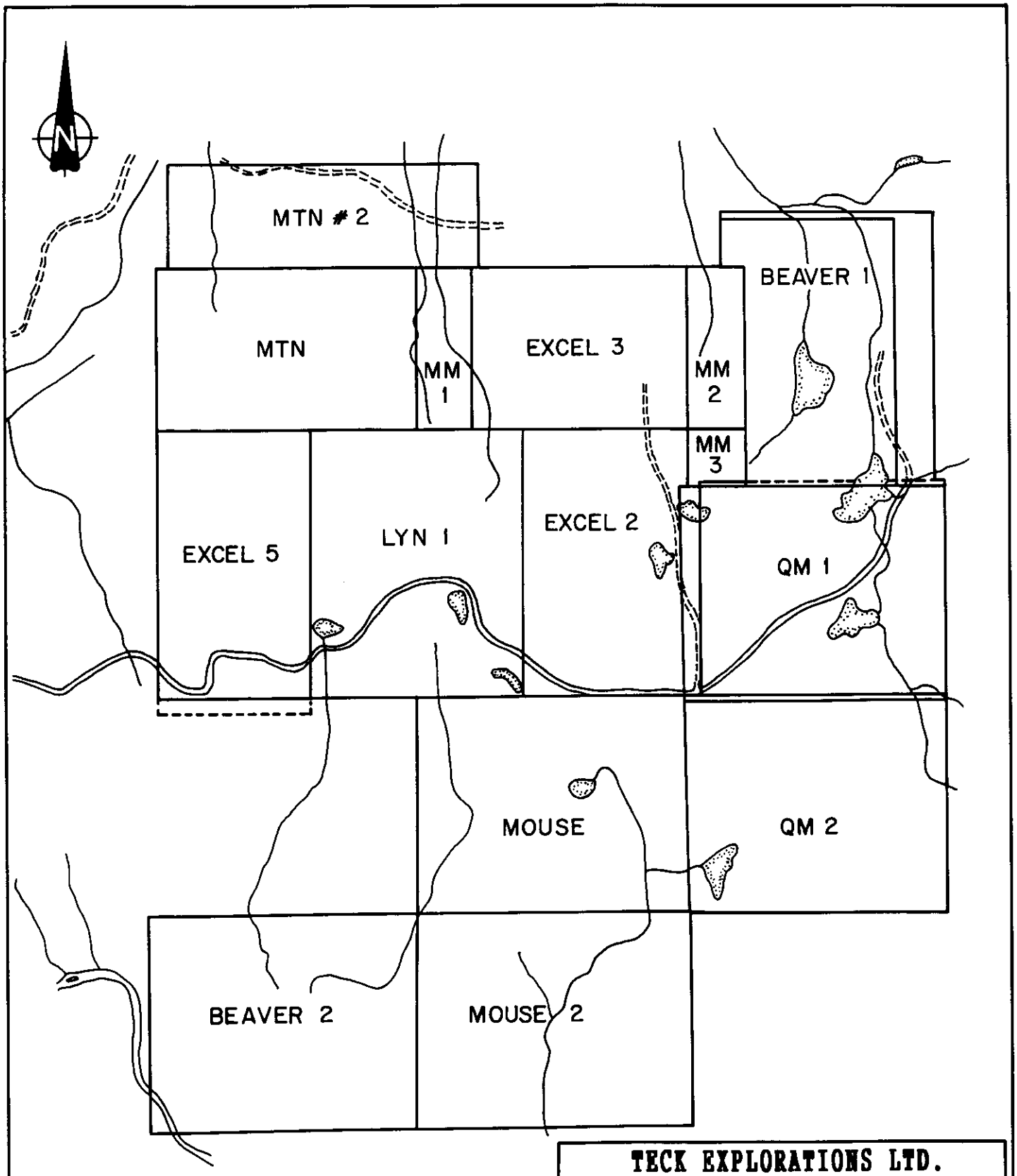
FIGURE 1.

TABLE 1 - CLAIM STATUS

Claim Name	Record Number	Ownership	Number of Units	Expiry Date
Mouse	7405	Teck Corporation	20	March 18, 1997
Mouse 2	7406	"	20	March 18, 1996
Lyn 1	7898	"	20	August 22, 1998
Excel 5	7899	"	15	August 28, 1998
QM 1	9519	"	20	December 5, 1996
QM 2	9517	"	20	November 27, 1996
Excel 2	7692	"	15	June 4, 1998
Excel 3	7693	"	15	June 4, 1998
MTN	7941	"	15	September 8, 1998
MTN #2	7987	"	12	September 29,1998
Beaver 1	8250	"	20	February 3, 1996
Beaver 2	8296	"	20	March 9, 1996
MM 1	9923	"	3	July 25, 1998
MM 2	9924	"	3	July 27, 1998
MM 3	9925	"	1	July 27, 1998

EXPLORATION HISTORY

Most of the previous exploration work, including all of the exploration work described below, has been focused on copper-gold showings found in the immediate vicinity of Mouse Mountain, located in what is now the centre of the property. Old test pits, drill core, hand trenches and claim posts indicates much early exploration work; however no written records can be found for most of this work. Exploration for copper probably originated in the early 1950's.



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MOUSE MOUNTAIN PROPERTY
CARIBOO MINING DIVISION, B.C.
NTS 93 G/1 93 B/16

CLAIM MAP

Scale: 1:50,000

FIGURE 3.

A carload of hand sorted ore averaging 5.5% copper, 0.05 oz/ton gold and 0.5 oz/ton silver was produced from old workings in 1955-56 and sent to the Tacoma Smelter. Preparatory work for a program to heap leach copper mineralization from the old workings was undertaken by Euclid Mining Corporation in 1967. Minor stripping and crushing was completed; but only pilot leach tests were completed before the program was terminated due to lack of funding.

Of 14 percussion holes drilled by Bethlehem Copper in 1970, in the Valentine Zone on the east side of Mouse Mountain, five of the holes averaged greater than 0.1% copper over lengths of 80 to 180 feet. No assays were reported for gold.

Hudson's Bay Oil and Gas Company conducted a soil survey immediately southwest of Mouse Mountain in 1974. Samples were analyzed for copper, lead, zinc, silver and molybdenum.

Five percussion holes were drilled by Dupont of Canada Limited on the north side of Mouse Mountain in 1970. One of the holes averaged greater than 0.1% copper over 170 feet. This hole averaged 0.003 oz/ton gold; while the rest of the holes averaged less than 0.1 ppm gold.

From 1981 to 1984 prospecting, grid preparation and soil sampling was carried out by First Nuclear Corporation, which held much of the present claim area. Samples were analyzed for copper, lead, zinc and molybdenum. Some of the soil samples were panned for gold, but no anomalous material was found.

After acquiring the property in 1986, Quesnel Mines Limited conducted limited grid preparation, backhoe trenching and stripping, prospecting, magnetometer and VLF-EM surveys. Trenching was carried out over magnetometer VLF-EM anomalies and zinc anomalies found during the First Nuclear Corporation soil program. Significant faulting, pyrite and limited chalcopyrite were located during this work, but no extensive intervals of economic mineralization were found. Altered volcanics containing up to 0.021 oz/ton Au were found along the Quesnel River slightly west of the grid area covered in this report.

The property was optioned by Placer Dome Inc. in 1989 with a purpose to test the favourable basalt-felsic breccia contact for a "QR-type" replacement style gold deposit. A 73.3 line kilometre cut and flag grid on lines spaced at 100 was established. In the summer of 1989, 1328 soil samples were collected, 52.0 line kilometres of total field magnetometer surveys and 42.0 kilometres of induced polarization surveys were performed in the north central portion of the property. Figure 8 is a compilation of the results from the 1989 program.

Although several soil samples collected in 1989 contained elevated gold results, the majority of the samples collected returned values close to normal background concentrations for soils in the

Cariboo region. Small copper anomalies are found occurring with all of the mineralized showings in the Mouse Mountain area. Several small copper soil anomalies are also found east of Mouse Mountain. Bedrock outcroppings are more sparse in this area and nothing was found to explain the copper anomalies.

Chargeability anomalies were found on the northern and western flanks of Mouse Mountain, corresponding with pyritic zones in altered breccias. Moderate chargeability anomalies are found in the area of the "high grade showing" and east of Mouse Mountain.

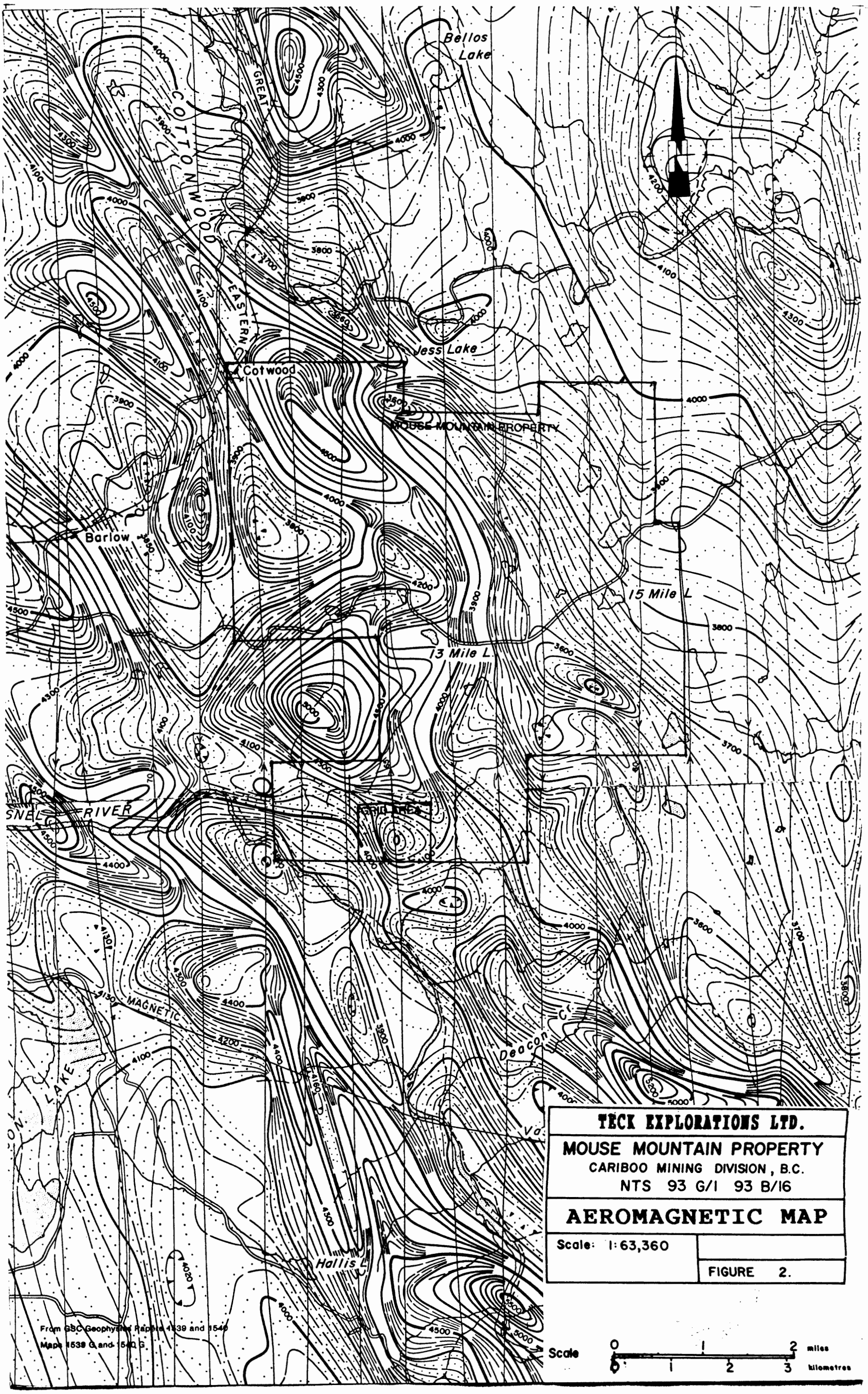
Magnetometer data from the 1989 survey outlined a magnetic high lying underneath Mouse Mountain and extending to the Valentine zone. An extensive magnetic high is found north of Mouse Mountain corresponding with disseminated magnetite in volcanic breccias. The breccias east of Mouse Mountain are found in an area of moderate magnetic highs. A narrow northwesterly trending magnetic low extends from the valentine zone to the rainbow breccia. Magnetic lows located on the far eastern part of the grid delineate the volcanic breccia/basalt contact.

Teck conducted 20.7 line kilometres of ground magnetic and VLF-EM surveys in March of 1991. The survey, conducted near the southern property boundary, covers a circular magnetic high indicated by a regional aeromagnetic survey (figure 2). A prominent 600 metre by 800 metre magnetic high with a relief of 1486 nanoteslas was located by the ground magnetic survey.

From June to August of 1991 Teck conducted 130.3 kilometres of total field magnetics and VLF-EM surveys on three separate grids on the property. Several 200 to 600 metre diameter magnetic anomalies were found in an area extending from Mouse Mountain to the southwestern property boundary. The majority of the conductive VLF-EM anomalies located trend in a northwesterly direction.

A 9.5 kilometre I.P. survey was conducted on the property in September of 1991. Chargeability anomalies were located on the southern and western edges of Mouse Mountain.

In October of 1991 nine holes totalling 915.62 metres were drilled in the Mouse Mountain area. Mineralization in the holes returned only short intervals with low grade copper and gold. The best intersection from the program returned 18.29 metres of 1621 ppm Cu. This includes a 6.1 metre section containing 0.31% copper and 123 ppb gold.


Bellos Lake
GREAT
COTTONWOOD
EASTERN
Jess Lake
Cotwood
MOUSE MOUNTAIN PROPERTY
Barlow
15 Mile L.
13 Mile L.
SNEL
RIVER
MAGNETIC
Deacon
Hallis L.
From GSC Geophysical Paper 1539 and 1540
Maps 1539 G and 1540 G.
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NTS 93 G/1 93 B/16
AEROMAGNETIC MAP
Scale: 1:63,360
FIGURE 2.
Scale
0 1 2 miles
0 1 2 3 kilometres

GEOLOGY

Regional Geology

The property is located within a narrow northwesterly trending assemblage of Upper Triassic and Lower Jurassic island arc volcanics and associated sedimentary facies with underlying oceanic crust (Crooked Amphibolite), known as the Quesnel belt, that extend through a significant portion of the province (Figure 4).

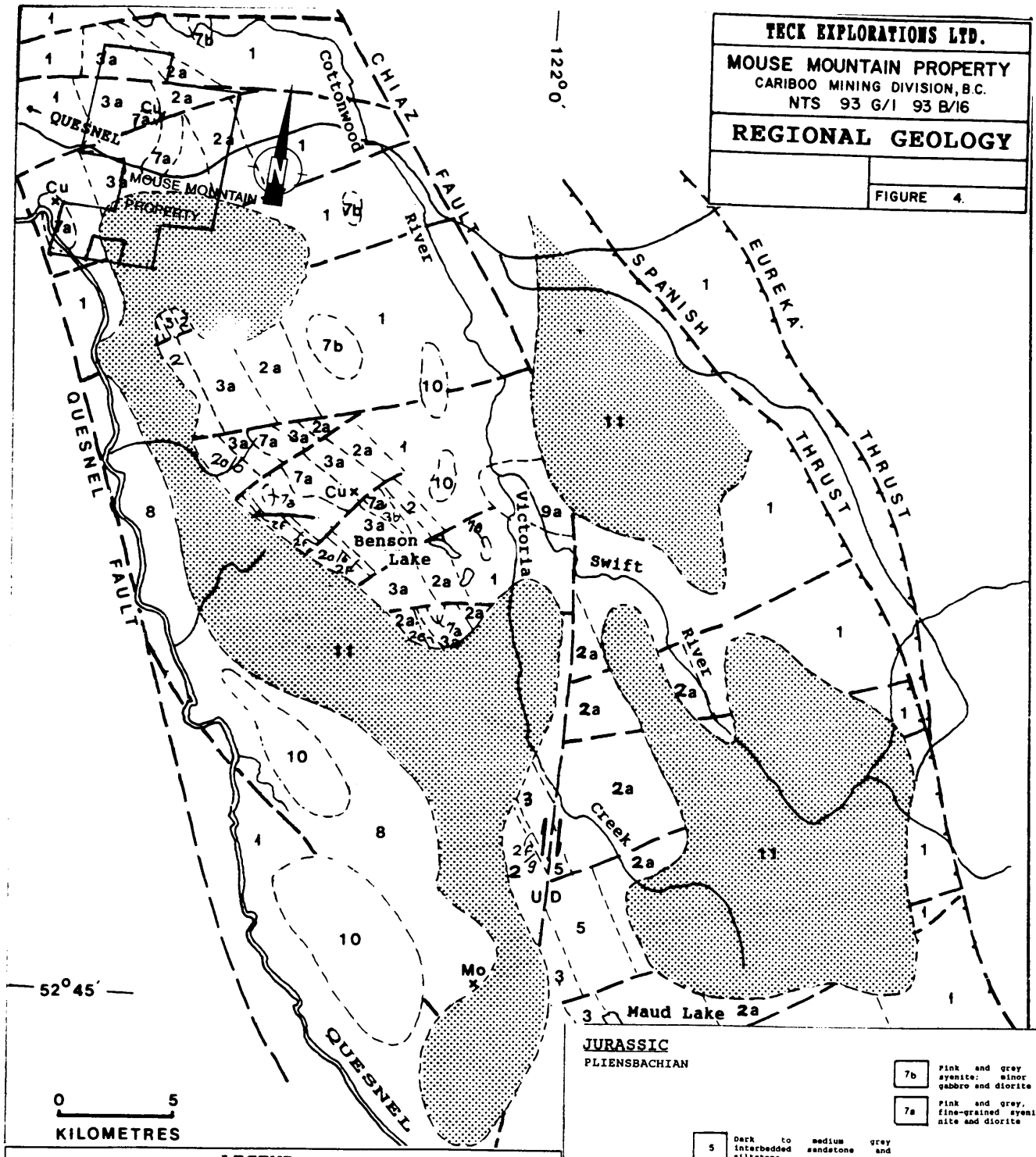
In the vicinity of the property the oldest rocks (unit 1) consist of fine grained epiclastic and volcanoclastic rocks (Bailey, 1990). This unit has a gradational contact with the overlying unit (2a) that consists of alkalic pillow basalts, basaltic breccia and tuff formed in relatively deep marine conditions. Nonconformably overlying this unit are a series of polylithic slump breccias (unit 3a) characterized by felsic volcanic debris, which are absent in unit 2. These volcanic and sedimentary rocks are intruded by Upper Triassic to Lower Jurassic alkalic rocks (unit 7) and Cretaceous calcalkalic rocks (unit 8).

The eastern boundary of the Quesnel belt is marked by the Eureka thrust which formed in response to accretion of Quesnellia with North America. This fault consists of rocks of the Crooked Amphibolite and Unit 1 sediments overlying rocks of the Barkerville Terrain of the Omenica belt found to the east. Rocks west of Quesnellia consist of a forearc melange of oceanic strata known as the Cache Creek Terrain. This boundary is often obscured by overburden and tertiary volcanics, but is thought to be marked by a high angle extension of the Pinchi fault, a major strike slip fault to the northwest.

The most important mineral occurrences in the area, usually consisting of copper with associated gold, are found within or adjacent to alkalic felsic stocks. The two most important deposits in the area are the Mt. Polley copper-gold deposit and the QR gold deposit (with associated copper). The Mt. Polley deposit contains mineable reserves of 551,400,000 tons at 0.38% copper and 0.55 grams per tonne gold. It is found within the felsic intrusive Mt. polley stock. The QR deposit contains a mineral inventory of 1,500,000 tonnes at a grade of 5.00 grams per tonne gold. It occurs within carbonate-altered mafic volcanic rocks that are propylitized by a metosomatic front developed during the intrusion of a nearby felsic alkalic stock.

Lithologies

The majority of the outcrop on the property is found in the Mouse Mountain area in the centre of the property where the Placer Dome grid is found (Figure 5).



LEGEND

From Bailey (1989)

SEDIMENTARY AND VOLCANIC ROCKS

PLEISTOCENE

- Glacial, fluvioglacial gravel and sand

MIOCENE

- 10 — Alkali olivine plateau basalt

EOCENE

- 9b — Light grey latite tuff, tuff-breccia and autobreccia
- 9a — Light grey sandstone and mudstone

CRETACEOUS

- 8 — Medium to coarse - grained granodiorite and quartz monzonite

JURASSIC

PLIENSBACHIAN

- 7b — Pink and grey megacrystic syenite; minor hornblende gabbro and diorite
- 7a — Pink and grey, medium to fine-grained syenite, monzonite and diorite
- 5 — Dark to medium grey interbedded sandstone and siltstone

SINEMURIAN

- 3b — Reddish grey to maroon monolithic latite tuff and breccia
- 3a — Maroon polylithic breccia with feldspathic clasts

TRIASSIC

NORIAN

- 2g — Massive grey limestone and calcareous sandstone
- 2f — Interbedded mafic siltstone and sandstone
- 2e — Analcite-bearing maroon and grey basalt
- 2b — Maroon alkali basalt breccia
- 2a — Green and grey alkali and alkali olivine basalt

CARNIAN

- 1 — Dark grey and green siltstone, sandstone, mafic tuff; minor conglomerate

INTRUSIVE ROCKS

SYMBOLS

- Geological contact (inferred)
- Fault (inferred)
- Mineral occurrence
- Cu — Copper
- Mo — Molybdenum

Lithologies range from Lower Jurassic (Sinemurian) to Upper Triassic (Carnian). The ages of the lithologies are based on correlation with regional government mapping (Bailey, 1990).

The lowermost rocks on the property are **black, weakly pyritic argillites with interbedded grey siltstones** (unit 1a). These are exposed along creeks in the southwest quadrant of the property and in two diamond drill holes located west of Mouse Mountain. Clasts of argillite can be found in the adjacent heterolithic breccias and agglomerates.

A sequence of **volcanic sediments** (unit 1c) is exposed on the eastern property boundary just south of the Barkerville Highway. They consist of repeating cycles of volcanic rich granule conglomerate that fine upward through grey siltstone into black cherty argillite. They are interbedded with tuffs rich in plagioclase and potassium feldspar fragments. These rocks are overlain by brown weathering unbedded crystal/lapilli tuffs that contain plagioclase and potassium feldspar crystal fragments, olivine crystals, dark volcanic rock fragments and angular black chert fragments. The section dips shallowly and tops to the south. These rocks are distant from other outcrops on the property, so their relationship with the rest of the property is unknown.

Pyroxene porphyritic basalt, and agglomerates with pyroxene porphyritic clasts and matrix (unit 2) overlie the argillite, and outcrop over most of the eastern half of the property. This unit is frequently found in gradational contact with the overlying heterolithic fragmental rocks to the west. A contact between the basalt and the argillite has not been found on the property.

Pyroxene crystals in the basalt are consistently euhedral, and generally 2-3mm long. Some areas have larger phenocrysts that are up to 1 cm across. Tiny plagioclase microlites are ubiquitous in the basaltic groundmass. This unit is not normally vesicular, but an outcrop with large (1cm), flow -flattened vesicles is found on line 111N, near 110E.

Plagioclase-phyric latitic and andesitic flows (unit 3a), including **crowded plagioclase porphyries** (unit 3b) are found all over the property. They are blanketed by the overlying breccias and agglomerates so the exposures of flows show an irregular, unpredictable distribution.

Heterolithic, volcanic agglomerates and breccias (unit 3c) overlie all of the above rocks and the alkalic intrusive rocks, and they are by far the most abundant rock types on the property. These rocks vary in clast size, shape and composition, and in matrix type and amount.

Clast size ranges from <1mm to 30-40cm. Most commonly clasts are fist size and poorly sorted. Most of the clasts are subrounded (i.e. agglomeratic); however angular breccias are found in the Mouse Mountain Vicinity and in creeks near the southern property boundary. A few outcrops near the western and northwestern property boundary contain well-rounded pebble clasts. The smoothing on these clasts indicates transport by water before deposition.

The most common clast composition type in these rocks is plagioclase-phyric latite and/or andesite. Pyroxene basalt clasts are also common particularly near the breccia/basalt contact. Other clast types that occur are syenite, diorite, crowded plagioclase porphyry, monzonite, mafic volcanic rocks, argillite, intermediate feldspar phyric volcanic rocks with trachytic textures and rare black pyroxenite clasts. Clasts of agglomerate are present locally, indicating that more than one fragmenting event occurred.

In most of these breccias and agglomerates, clasts dominate over matrix by volume. In some localities the matrix is intermediate tuffaceous material, in others it is plagioclase-phyric intermediate flow.

Polylithic volcanic and intrusive breccias (unit 3d) are found in the Mouse Mountain vicinity near the centre of the property. These breccias are quite similar to the breccias described above, with the main exception being that much of the matrix in these breccias consists of fine grained alkalic sub-volcanic material. Most of the clast are angular to sub-angular. Clasts of fine grained alkalic intrusive rocks are common due to the proximity of intrusions of this nature. Along with the abundant intrusive clasts many other clast types are found. This heterogeneity in clast types indicates that a considerable thickness of the stratigraphic section was sampled to produce this rock, so the intrusive events that formed it must have had considerable energy and come up from some depth. Alteration in this area is strong which often makes it difficult to distinguish whether the matrix is volcanic or fine grained intrusive material.

Alkalic intrusive rocks are exposed in outcrops on the eastern edge of Mouse Mountain (Valentine showing), along the southeastern edge of Mouse Mountain in the area of the high grade showing and on the southwestern edge of the property along the Quesnel River (unit 5). Intrusive rocks in the Mouse Mountain area consist of fine grained eguigranular diorite monzonite and syenite (unit 4).

The Quesnel River area is underlain by black pyritic argillites and associated siltstones, which are intruded by a coarse grained syenite intrusion. Pale pink aplite dykes associated with this

intrusion shoot off into the surrounding rocks. These rocks are cut by abundant mafic dykes which parallel the NNW striking steep shear foliation found along the Quesnel River. Most of these dykes are olivine basalt, but some are andesite.

Hornblende needle and plagioclase porphyry (unit 6) outcrops are located around the Barkerville highway slightly south east of Mouse Mountain. There is no visible potassium feldspar in this rock. It has a pale green groundmass and weathers white, and contains disseminated magnetite. This porphyry is probably the youngest hard rock unit on the property. Most of the outcrops are very fresh, and the distribution of the outcrops is contiguous. It does appear as clasts in the heterolithic agglomerates.

Property Geology

The black pyritic shales (unit 1a) record a deep anoxic oceanic depositional environment. The transition to pyroxene basalts(unit 2) and more felsic flows (unit 3a), and then to breccias and agglomerates (units 3c and 3d) records the emergence of an alkalic arc and subsequent shallowing of the ocean as the arc built up. The presence of maroon colours (hematite) in the fragmental rocks is evidence that the rocks were deposited in a partially subaerial environment.

Syenite and monzonite clasts are found in the polylithic breccias which are in turn intruded by syenite and monzonite. This provides evidence that the volcanic rocks and the intrusive rocks are probably comagmatic. The agglomerates and breccias contain samples from the entire sequence. The black argillite clasts are probably from the lowest part of the section. It is not known where the black pyroxenite clasts originate. They are composed of coarse black, interlocking pyroxenite crystals.

Mineralization and Alteration

Most of the previous exploration has been focused on the four mineral occurrences located over a 1700m long northwesterly trending linear zone located in the central part of the property. Rocks in this area, consisting of volcanic and intrusive breccias and monzonite and syenite intrusions, have been moderately to intensely altered (figure 6). Silicic, potassic and propylitic alteration appear to be related to the intrusive rocks. Fe-carbonate alteration appears to be later, and associated with a NNW striking fault system that cuts the area. Mineralization in the area is, at least in part, controlled by this fault system.

Chloritic alteration is found throughout most of the central area of the Mouse Mountain property. An area extending from the top of Mouse Mountain to the Valentine zone on the eastern edge of Mouse Mountain contains significant amounts of potassic alteration. Pyritic zones are found on the northern, western and southern flanks of Mouse Mountain.

The **"High grade showing"**, located at the southeastern base of Mouse Mountain, consists of a fracture zone containing chalcopyrite, bornite and trace amounts of chalcocite hosted in fine grained monzonite. The mineralized zone, which trends in a northerly direction, is 3 metres wide and exposed over a distance of 1.5 metres. A sample containing 1.58 % copper over a distance of 3 metres was returned from the showing. No copper mineralization was found in the monzonite immediately surrounding the showing.

Two short addits, now caved, are located near the high grade showing. An old report (Mitchell, 1967) describing drilling in the immediate area of the high grade showing, conducted in the mid 1950's, reports of a 228 foot intersection containing 0.35% Cu. Reports (Mitchell, 1967 and Sutherland, 1956) of several other shorter but significant intersections drilled in the same area were also mentioned.

A small outcrop of monzonite located approximately 50 metres north of the high grade showing contains minor amounts of disseminated chalcopyrite and pyrite with some malachite staining. A grab sample containing 2766 ppm copper was returned from this outcrop.

Holes **91MM-1 to 91MM-4** were drilled in the area of the "high grade showing". Siliceous monzonites, syenites and intrusive breccias with varying degrees of potassic and chloritic alteration were found in these holes. Much disseminated pyrite was found in the holes; but only minor amounts of disseminated and fracture controlled chalcopyrite was found. The best intersection from the area returned 18.29 metres of 1621 ppm copper, that also included 6.10 metres containing 0.31% copper and 123 ppb gold. The width and magnitude of copper values found in the holes are significantly less than those reported from the 1955-56 drilling.

The **"Valentine zone"** is an exposure of fine grained intrusive rocks with disseminated and fracture filling chalcopyrite (<6%) and pyrite, with associated malachite and azurite, located approximately 400 metres north of the "high grade showing". It is approximately 100 metres in diameter. Outcrops of slightly silicified chloritically altered volcanic and intrusive breccias with only very minor copper occurrences are located adjacent to the intrusion. Many shears and faults trending in several different directions are located on the valentine zone. Fracturing within the rock has given much of the intrusion a crackle breccia texture. The valentine zone is commonly

brecciated along the it's margins. A prominent northwesterly trending lineament is located on the eastern edge of the valentine zone. The intrusive rocks range from dioritic to syenitic in composition and are potassically altered. It is not readily distinguishable whether the exposure consists of more than one intrusive event or one intrusive event that is magmatically differentiated.

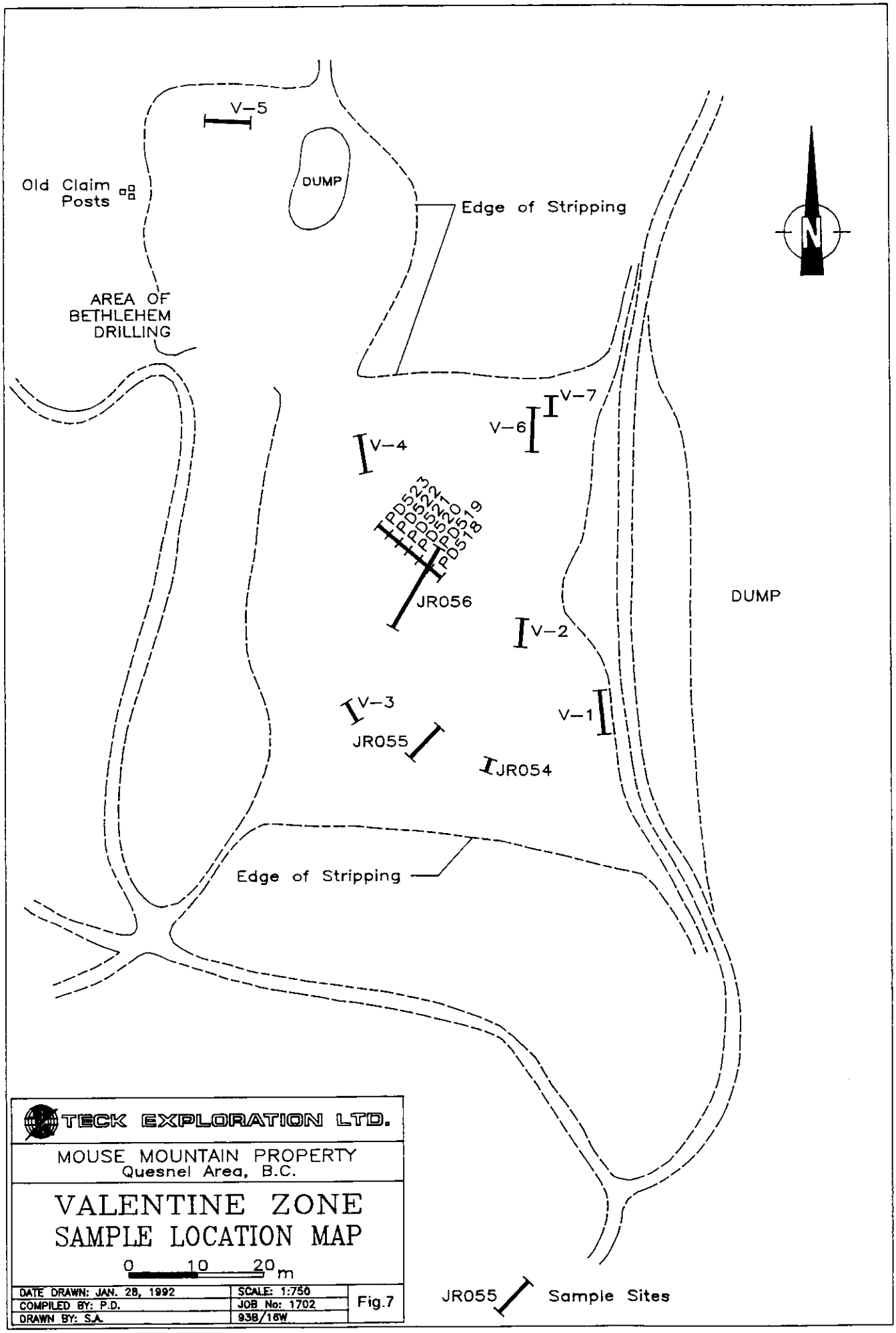
Samples collected on the valentine zone are indicated on figure 7. Chip samples collected contain between 0.11 % and 0.42 % copper and gold values ranging from 310 ppb to 0.013 oz/t. Five percussion holes were drilled on or adjacent to the valentine zone in 1970. Five of the holes averaged greater than 0.1% copper over lengths of 80 to 180 feet. No assays were reported for gold.

The **"Rainbow breccia zone"** is located approximately 600 metres northwest of the valentine zone on the northeastern edge of Mouse Mountain. It consists of a 7 metre by 3 metre exposure of pale green grey siliceous chloritically altered intrusive breccia with < 7% disseminated pyrite and < 4% disseminated chalcopyrite. A milky white alteration (albitic?) is also found over parts of the showing. Chip samples collected returned 4 metres of 0 .23 % copper and 2 metres of 0.15 % copper. Alteration has destroyed most of the original texture in the rock.

A grab sample was collected from a 2 metre diameter intrusive breccia outcrop located approximately 250 meters east-northeast of the rainbow breccia, at coordinates 11360N and 9980E. It contains minor disseminated chalcopyrite and returned an assay with 0.14 % copper. It is the closest outcrop to the rainbow breccia showing in the east-northeasterly direction.

The area drilled by Dupont is located approximately 250 metres northwest of the rainbow breccia zone. Of the five percussion holes drilled only one of the holes returned significant mineralization; 170 feet containing 0.1% copper. The bedrock in this area is the same as the outcrop that surrounds the rainbow breccia. It consists of slightly siliceous chloritically altered intrusive and volcanic breccias with many calcite filled hairline fractures and <8% disseminated pyrite.

An extensive alteration zone can be found in **intrusive rocks located near the Quesnel River** in the southwestern corner of the property. A series of northerly trending faults and shears can be found along the Quesnel River. This part of the property is located close to the Quesnel fault, which separates the Quesnel terrain from the Cache Creek terrain, and shearing in this area could be related to the fault. All of the rocks found here are affected by a silicification event that is probably controlled by the shearing. Bleaching and intense silicification of the syenites and


V-5
DUMP
Old Claim Posts
Edge of Stripping
AREA OF BETHLEHEM DRILLING
N
V-7
V-6
V-4
PD523
PD522
PD521
PD520
PD519
PD518
JR056
DUMP
V-2
V-3
V-1
JR055
JR054
Edge of Stripping
TECK EXPLORATION LTD.
MOUSE MOUNTAIN PROPERTY
Quesnel Area, B.C.
VALENTINE ZONE
SAMPLE LOCATION MAP
0 10 20 m
DATE DRAWN: JAN. 28, 1992
COMPILED BY: P.D.
DRAWN BY: S.A.
SCALE: 1:750
JOB No: 1702
93B/16W
Fig.7
JR055 Sample Sites

aplites has resulted in the formation of white felsite. The outlines of relict plagioclase and potassium feldspar crystals are visible in some of the felsite, but staining shows that all of the potassium feldspar has been replaced by silica. These rocks, and spatially associated mafic rocks, are rich in disseminated and fracture controlled pyrite, with rare chalcopyrite. The mineralization appears to be related with the silicification event.

A small exposure of fine grained feldspar porphyritic syenite with minor disseminated chalcopyrite and pyrite and associated malachite is located near the Quesnel River slightly off the southwestern property boundary. This showing was drilled by Noranda in the early seventies; but results of the drilling are uncertain.

TABLE 2
MOUSE MOUNTAIN PROPERTY SIGNIFICANT RESULTS

SUMMARY OF 1992 DRILL RESULTS

HOLE #	FROM (m)	TO (m)	INTERVAL (m)	Cu ppm	Au ppb
MM92-10	0.3	44.8	44.5	2045	107
Incl.	8.2	23.4	15.2	3308	141
Incl.	14.3	17.4	3.1	5523	200
MM92-12	50.9	75.2	24.3	3331	230
Incl.	56.0	56.9	0.9	5235	230
Incl.	63.0	69.1	6.1	5321	307
MM92-14	93.5	96.6	3.1	3505	55
MM92-15	3.0	108.8	105.8	599	46
Incl.	63.0	66.1	3.1	1136	90
Incl.	96.6	99.7	3.1	582	180
MM92-16	3.0	5.2	2.2	2072	35

1991 DIAMOND DRILLING SIGNIFICANT RESULTS

DDH #	FROM (metres)	TO (metres)	WIDTH (metres)	Cu (ppm)	Au (ppb)
1	29.57	38.71	9.14	524	
2	34.75	47.85	13.10	638	
Incl.	44.81	47.85	3.04	(0.14%)	
2	53.95	55.17	1.22	542	
2	62.03	65.10	3.07	650	
3	66.14	69.19	3.05		105
4	26.52	44.81	18.29	1621	
Incl.	38.71	44.81	6.10	(0.31%)	123
5	10.30	20.42	10.12	501	
6	72.24	75.29	3.05		115
6	102.72	105.77	3.05		210
9	3.05	32.61	29.56	812	
Incl.	5.18	8.23	3.05	(0.12%)	
Incl.	11.28	14.33	3.05	660	145
Incl.	23.47	32.61	9.14	1426	458
Incl.	29.57	32.61	3.04	(0.29%)	0.027oz/t

*bracketed values have been assayed

VALENTINE ZONE

A) Percussion Drilling Highlights (Bethlehem, 1970)

Hole #	FROM (feet)	TO (feet)	WIDTH (feet)	Cu (%)
1	80	200	120	0.114
3	20	200	180	0.145
6	0	140	140	0.150
9	30	110	80	0.108
13	30	110	80	0.120

B) Surface Samples (Teck, 1991)

Width (metres)	Copper	Gold
15	0.30 %	310 ppb
10	0.17 %	290 ppb
3	0.42 %	540 ppb
12	0.18 %	0.005 oz/t
incl. 4m	0.32 %	0.007 oz/t

C) Surface Samples (Quesnel Mines, 1988)

Width (metres)	Copper	Au oz/t	Sample No.
6.71	0.11	0.006	V-1
4.57	0.21	0.008	V-2
4.27	0.22	0.011	V-3
6.40	0.19	0.010	V-4
7.01	0.32	0.013	V-5
3.35	0.30	0.010	V-6
7.01	0.42	0.010	V-7

HIGH GRADE SHOWING

A) Surface Samples

Company	Year	Width	Cu %	Au oz/t
Teck	1991	3.0m	1.58	0.005
20 m NW of showing	grab	0.28		
Quesnel Mines	1988	6 feet	3.60	0.052

B) 1955 - 56 Diamond Drilling Highlights

Hole #	FROM (feet)	TO (feet)	WIDTH (feet)	Cu (%)
1	30	258.1	228.1	0.35
2	150	175.8	25.8	0.46
3	135	140	5	1.0
Q9			3.5	1.00
Q9			8.7	1.2
Q10			24.7	0.78
Q10			7.8	0.76
Q115			4	1.35
Q118			4	1.4
Q119			1	1.37
Q119			1	1.47

C) Trench North of High Grade Showing

grab sample 2766 ppm Cu

RAINBOW BRECCIA ZONE

A) Surface Samples

Width) (metres)	Cu %	Au oz/t
4	0.23	0.004
2	0.15	0.003

DUPONT PERCUSSION DRILLING (NORTH OF RAINBOW BRECCIA ZONE)

Hole #	FROM (feet)	TO (feet)	WIDTH	Cu (%)	Au oz/t
WP75-1	110	280	170	0.102	0.003

SHOWING OFF SOUTHWEST CORNER OF PROPERTY

grab sample from showing drilled by Noranda: 0.28 % Cu

DIAMOND DRILLING

Seven diamond drill holes totalling 951 metres of NQ core were drilled by LDS Diamond Drilling of Kamloops, B.C. from June 11 to 17, 1992 using a longyear 38 diamond drill. All drill core is stored on the property. Core samples were collected at approximately 3.0 metre intervals and sent to Chemex Labs Ltd. of Vancouver, B.C. for 32 element ICP analysis and gold atomic absorption analysis.

Drill logs and analytical results are provided in appendix II. Figures 5 and 6 are plan maps showing the drill hole collar locations, figure 9 shows a drillhole cross section through the "valentine zone" and table 2 shows all significant results from the 1992 drill program.

Within in the mineralized intervals elevated values of copper, gold, arsenic, antimony and mercury are found. Copper and gold values are usually directly correlatable with each other which is common in alkalic porphyry deposits. Both chalcopyrite and pyrite are common in the mineralized intervals. Arsenic, antimony and mercury also have strong correlation coefficients with each other, which probably indicates the presence of a sulphosalt within the mineralized intervals.

Holes **MM92-10, MM92-12 and MM92-14** were drilled in the area of the "valentine zone". The drill holes delineated a 100 metre diameter copper-gold zone that appears to pinch out at a shallow depth. The zone is only about 25 metres wide at a depth of 60 metres below surface. Copper values range from .1% to .6% and gold values range from 100 ppb to 500 ppb. The mineralization consists of disseminated and fracture filling pyrite and chalcopyrite found in magnetite rich potassically altered syenite. The syenite is crackle brecciated with a fine grained intrusive cement that forms along fractures and separates the syenite into individual clasts. The rocks adjacent to the mineralized syenite are usually bleached siliceous and chloritically altered polylithic intrusive breccias that contain minor amounts of disseminated pyrite and chalcopyrite.

MM92-10 was drilled at the eastern base of the "valentine zone". It was drilled to test for continuity of mineralization below the "valentine zone". The hole extended below two of the best holes from the bethlehem drill program. The first 45 metres of the hole contains 0.2% copper and 107 ppb Au. No other significant mineralization was intersected in the hole.

MM92-12 was drilled on the western edge (on the top) of the "valentine zone". It was drilled to test for western and northern continuity of mineralization intersected in hole 10. A 24.3 metre interval (from 50.9 to 75.2 metres) containing 0.3% copper and 230 ppb gold was intersected.

MM92-14 was drilled slightly east of the "valentine zone", on the other side of a gully flanking the eastern edge of the "valentine zone". The hole was drilled to test for deeper continuity of mineralization intersected in holes 10 and 12. The 3.1 metre wide interval containing 0.35% copper was the only significant mineralization intersected.

MM92-11 was drilled to test for mineralization at greater depths below Mouse Mountain. The presence of potassic alteration and a magnetic anomaly on top of Mouse Mountain indicated the possible proximity to porphyry mineralization. No significant mineralization was intersected.

MM92-13 was drilled to test a weak chargeability and magnetic anomaly located slightly east of Mouse Mountain. The majority of the hole consists of feldspar porphyritic monzonite with minor chloritic alteration. No significant mineralization was intersected. The feldspar porphyry in the hole is the same feldspar porphyry indicated on the geology plan (unit 3b on figure 6).

MM92-15 and **MM92-16** were in drilled in the vicinity of the "rainbow breccia zone".

MM92-15 was drilled to test a chalcopyrite showing located east of the "rainbow breccia zone". The entire hole consists of a potassically altered feldspar porphyry breccia with minor disseminated magnetite. A fine grained intrusive cement occurring along fractures in the rock separates the feldspar porphyry into individual fragments. The feldspar porphyry is the same rock type as the unit found in hole 13. Trace amounts of chalcopyrite were intersected over the entire length of the hole. The hole was 108.8 metres long and averaged 599 ppm copper.

MM-92-16 was collared on the "rainbow breccia zone". It was drilled to test for continuity of mineralization found in the rainbow breccia. Most of the hole consists of chloritically altered siliceous polylithic intrusive breccia. A 2.2 metre wide interval at the top of the hole containing 0.21 % copper was the only significant mineralization found in the hole.

CONCLUSIONS AND RECOMMENDATIONS

The Mouse Mountain property is located in an area known to have a significant copper-gold relationship with alkalic felsic stocks. Two important deposits of this nature (QR and Mt. Polley) are found in the area.

Significant porphyry style copper mineralization related to alkalic felsic stocks is found in the centre of the property in the vicinity of Mouse Mountain. However, this area has been adequately tested with geological, geophysical and geochemical surveys along with several drill programs. The extent of the mineralization found is not large and chances of finding a large body of porphyry style mineralization in the Mouse Mountain vicinity are small.

There are other parts of the property that warrant more exploration. Due to the sparseness of outcrop not much is known of most of the ground outside of the Mouse Mountain area. Several prominent magnetic highs are found between the Mouse Mountain area and altered intrusive rocks located near the Quesnel River in the southwestern corner of the property. Follow-up I.P. surveys and soil geochem surveys could help delineate drill targets in this area. Soil surveys should be planned carefully because of overburden depths.

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MOUSE MOUNTAIN PROJECT
1992 STATEMENT OF COSTS

LDS Diamond Drilling Ltd.			
Coring	3,121 feet @ $14.00 foot	43,694.00	
TOTAL EXPENSES			**$43,694.00**

WRITER'S CERTIFICATE

I, Paul Donkersloot, of #9 3627 Oak Street., Vancouver, British Columbia do hereby certify that:

1. I am a geologist employed by Teck Explorations Ltd. of #272 - 350 Victoria Street Kamloops, B.C.

2. I am a graduate of the University of Alberta (B.Sc. Geology, 1984).

3. I have engaged in the study and practice of mineral exploration in British Columbia, Northwest Territories and Yukon Territory since 1982.

4. I supervised the 1992 field program undertaken on the Mouse Mountain property and am the writer of the foregoing report.

5. I have not received nor do I expect to receive any interest, direct or indirect, in the property of Teck Explorations Ltd. or of Quesnel Mines Ltd., or any of their affiliates; nor do I own any securities, directly or indirectly, of Teck Explorations Ltd. or any share of Quesnel Mines Ltd.

Paul Donkersloot

P. Donkersloot, B.Sc.

APPENDIX I
GEOCHEMICAL AND ASSAY METHODS OF ANALYSIS

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 04-352597
Fax: (604) 984-0218

Crushing

The entire sample is passed through TM Rhino crusher to yield a crushed product where greater than 60% of the sample passes a -10 mesh screen. A split in the range of 200-350g (weight depends on parameters requested) is then taken using a stainless steel Jones riffle splitter.

Chemex Code	Sample Weight
274 (Rush code - 292)	0 - 15 lbs

Ring Grinding

Chemex Codes: 205 geochemical samples

A crushed sample split is ground using a ring mill pulverizer with a chrome steel ring set. The Chemex specification for this procedure is that greater than 90% of the ground material passes a 150 mesh screen. Grinding with chrome steel will impart trace amounts of iron and chromium to a sample.

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32-Element Geochemistry Package (32-ICP)
Inductively-Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)

A prepared sample (1.0g) is digested with concentrated nitric and aqua regia acids at medium heat for two hours. The acid solution is diluted to 25ml with demineralized water, mixed and analyzed using a Jarrell Ash 1100 plasma spectrometer after calibration with proper standards. The analytical results are corrected for spectral inter-element interferences.

Chemex Codes	Element	Detection Limit	Upper Limit
2119	* Aluminum	0.01 %	15 %
2118	Silver	0.2 ppm	0.02 %
2120	Arsenic	2 ppm	1 %
2121	* Barium	10 ppm	1 %
2122	* Beryllium	0.5 ppm	0.01 %
2123	Bismuth	2 ppm	1 %
2124	* Calcium	0.01 %	15 %
2125	Cadmium	0.5 ppm	0.05 %
2126	Cobalt	1 ppm	1 %
2127	* Chromium	1 ppm	1 %
2128	Copper	1 ppm	1 %
2150	Iron	0.01 %	15 %
2130	* Gallium	10 ppm	1 %
2132	* Potassium	0.01 %	10 %
2151	* Lanthanum	10 ppm	1 %
2134	* Magnesium	0.01 %	15 %
2135	Manganese	5 ppm	1 %
2136	Molybdenum	1 ppm	1 %
2137	* Sodium	0.01 %	10 %
2138	Nickel	1 ppm	1 %
2139	Phosphorus	10 ppm	1 %
2140	Lead	2 ppm	1 %
2141	Antimony	2 ppm	1 %
2143	* Strontium	1 ppm	1 %
2144	* Titanium	0.01 %	10 %
2145	* Thallium	10 ppm	1 %
2146	Uranium	10 ppm	1 %
2147	Vanadium	1 ppm	1 %
2148	* Tungsten	10 ppm	1 %
2149	Zinc	2 ppm	1 %
2131	Mercury	1 ppm	1 %

* Elements for which the digestion is possibly incomplete.

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Gold - Atomic Absorption Spectroscopy

Chemex Code: 17

A prepared sample (10 grams) is ashed at 600°C for approximately one hour to destroy any organics. The material is digested with aqua regia and taken to dryness. The residue is taken up with 25% hydrochloric acid. The gold is then extracted as the bromide complex into MIBK and analyzed by atomic absorption spectroscopy, with background correction.

Detection Limit: 5 ppb Upper Limit: 10,000 ppb

Gold - Fire Assay Collection/ Atomic Absorption Spectroscopy (FA-AA)

Chemex Code: 983

A 30g sample is fused with a neutral lead oxide flux inquarted with 6mg of gold-free silver and then cupelled to yield a precious metal bead.

These beads are digested for 30 mins in 0.5ml concentrated nitric acid, then 1.5ml of concentrated hydrochloric acid are added and the mixture is digested for 1 hr. The samples are cooled, diluted to a final volume of 5ml, homogenized and analyzed by atomic absorption spectroscopy.

Detection Limit: 5 ppb Upper Limit: 10,000 ppb

Copper - Reverse aqua regia

Chemex Code: 301

A prepared sample (0.5 - 2.00g) is digested in a hot nitric - hydrochloric acid mixture and taken to dryness, cooled, and then transferred into a 250ml volumetric flask. The final matrix is 25% hydrochloric acid. The solutions are then analyzed on an atomic absorption instrument.

Detection Limit: 0.01 % Upper Limit: 100 %

APPENDIX II
DRILL LOGS WITH ANALYTICAL RESULTS

HOLE-ID	LOCATION [EAST]	LOCATION [NORTH]	LOCATION [ELEV.]	LENGTH	CORE SIZE	LOGGED BY	COMPLETED
MM92-10	10198.0	10565.0	990.0	182.5	NQ	P.D.	12/06/92

FROM	TO	AZIMUTH	DIP
0.0	182.5	270.0	-60.0

FROM	TO	INTERVAL	SAMPLE NO.	RECOVERY	CU PPM	AU PPB
0.3	3.0	2.7	524101	0	2282	105
3.0	5.2	2.2	524102	68	1661	115
5.2	8.2	3.0	524103	100	1672	105
8.2	11.3	3.1	524104	100	2588	145
11.3	14.3	3.0	524105	103	1407	75
14.3	17.4	3.1	524106	100	5523	200
17.4	20.4	3.0	524107	100	4276	135
20.4	23.4	3.0	524108	102	2476	140
23.4	26.5	3.1	524109	99	1864	115
26.5	29.5	3.0	524110	101	1208	90
29.5	32.6	3.1	524111	100	1052	90
32.6	35.7	3.1	524112	100	620	55
35.7	38.8	3.1	524113	100	637	45
38.8	41.7	2.9	524114	103	1651	90
41.7	44.8	3.1	524115	97	1690	115
44.8	47.8	3.0	524116	103	520	45
47.8	50.9	3.1	524117	97	148	15
50.9	53.9	3.0	524118	100	148	10
53.9	56.9	3.0	524119	103	62	5
56.9	60.0	3.1	524120	103	122	10
63.0	66.1	3.1	524121	97	144	10
69.1	72.2	3.1	524122	97	41	0
75.3	78.3	3.0	524123	103	289	10
81.4	84.4	3.0	524124	103	34	5
87.5	90.5	3.0	524125	103	117	0
93.5	96.6	3.1	524126	97	99	0
99.6	102.7	3.1	524127	97	97	0
105.7	108.8	3.1	524128	100	109	5
111.8	114.9	3.1	524129	97	101	5
117.9	121.0	3.1	524130	97	17	0
124.0	127.1	3.1	524131	97	151	5
130.1	133.1	3.0	524132	100	93	5
136.2	139.2	3.0	524133	100	83	5
139.2	142.3	3.1	524134	97	162	0
142.3	145.3	3.0	524135	97	117	10
145.3	148.4	3.1	524136	97	227	10
148.4	151.4	3.0	524137	100	120	0
154.5	157.5	3.0	524138	103	169	5
160.6	163.6	3.0	524139	103	173	10
166.7	169.7	3.0	524140	103	249	0
172.8	175.8	3.0	524141	100	142	5
178.9	181.9	3.0	524142	100	191	0

FROM	TO	INTERVAL	CU PPM	AU PPB
0.3	44.8	44.5	2045	107
0.3	32.6	32.3	2388	120
0.3	23.4	23.1	2790	129
8.2	23.4	15.2	3308	141
38.8	44.8	6.0	1689	114

FROM	TO	ROCK-TYPE	RT-CODE
0.0	29.8	2	KSYENBX
29.8	45.2	5	APOLYBX
45.2	51.3	6	LAT
51.3	53.6	5	APOLYBX
53.6	54.7	6	LAT
54.7	58.0	5	APOLYBX
58.0	61.6	8	ALATBX
61.6	66.4	5	APOLYBX
66.4	98.0	2	SYENBX
98.0	113.9	4	POLYBX
113.9	121.1	2	SYENBX
121.1	139.6	4	POLYBX
139.6	144.3	5	APOLYBX
144.3	182.5	6	LAT

0.0 3.0
CASING 0.3-3.0m -bedrock was collected and sampled
SYENITE BRECCIA:-grey orange, fine grained equigranular syenite with 35% dk gy intrusive material separating clasts into individual subangular clasts - mod K alt., minor silic., <5% py and <3% cpy diss and along fract's in rock - mod diss mt -many (3/5cm) hairline Ca frct's -mod Fe-ox staining along frct's

3.0 29.8
K ALT. SYEN BRECCIA: -gy orange fn gr equign syen separated into individual subrounded to subangular clasts (2mm to 5cm in dia) by 15 to 35% grey fine grained intrusive material -<5% py and <2% cpy diss and along frct's in rock -<5% diss mt -many (2/5cm) hairline Ca frct's (dominant core angles of frct,s 30 and 60 degrees) minor qz frct's - mod K alt., weak light grey background alt. (silic?) -weak chl alt. (usually occuring along dark green frct's in rock)
3.0-19.0m -moderate Fe-Ox staining along frct's
3.0-5.7m -60% light grey fine grained intusive matrix surrounding 1mm-2cm dia. syen clasts
7.0-8.1m -core is rubbly -mod. chl. alt. and silic -much Fe-Ox staining along frct's
8.5-11.5m -2-5% diss cpy
12.6-14.8m -strong K alt. mod chl alt. -minor clasts in this interval contain strong chl. alt. and mod. silic.(i.e. alt. during a seperate alt. epidote.)
14.8-29.8 -increase in chl. alt. (mod. chl. alt.) mainly in matrix
15.0-26.0 -1-5% diss and frct filling cpy and 1-5% py, incl. 5% cpy from
16.0-20.0m -7% cpy
25.0-26.4 -strong K alt.
26.1-26.8 -20% clasts in breccia
29.8 - contact with polylithic breccia, core angle 40 degrees

29.8 45.2
CHLORITE ALTERED SICIFIED POLYLITHIC INTRUSIVE BRECCIA: -10 TO 40% 2mm-4cm dia. subangular clasts in fine grained grey green intrusive matrix -most of the clasts appear to be fine grained syenite but volcanic clasts are also found in the rock -alteration makes clast lithology difficut to distingiush -mod. to strong chl. alt. mod silic. weak hem alt. -many (3/5cm) qz frct's (upto 3mm wide) - dominant core angle of frct's is 40 degrees -tr diss and frct filling py, tr diss mt, tr cpy
31.0 -2cm wide qz vein with 20 green clay (core angle 40 degrees)
32.0-33.0 -2% py
33.5 -2cm wide brecciated qz vn (core angle 45 degrees)
34.45 -34.65 -brecciated qz vn with 10% green clay (core angle 70 degrees)
34.7 -2cm wide qz vn (core angle 70 degrees)
35.3-37.1 -incr. to mod hem alt.
36.2 -2cm wide qz vn (core angle 70 degrees)
39.1 -3cm wide vuggy qz vn (core angle 25 degrees)
41.0-45.2 -mod. to strong silic, 4% black specs (Mn oxide?) in core
40.9 -2cm wide vuggy qz vn (core angle 50 degrees)
43.0 -2cm wide vuggy qz vn (core angle 35 degrees)
45.2 -contact with latite? (core angle 40 degrees)

45.2 51.3
LATITE DYKE?: -brown orange aphanitic rock with 25 % 0.5-1.0mm dia white feldspar crystals -mod hem alt. -minor siic. and chl. alt. -many qz frct's ,up to 2mm wide, (3/5cm) with a dominant core angle of 40 degrees -5% 2mm 2cm dia subagular grey aphanitic clasts (unknown lithology) in rock -tr diss py
47.4-48.0 -rock is slightly bleached -bleached front has core angle of 40 degrees
49.2-51.3 -15% of rock is altered to red grey clay -mod. silic. -35% subangular clasts (2mm-3cm dia.) of unknown lithology type
51.3 -contact with polylithic breccia -core angle 30 degrees

51.3 53.6
CHLORITE ALTERED SILICIFIED POLYLITHIC INTRUSIVE BRECCIA: -same description as 29.8-45.2
53.6 - 5cm wide interval with 25% of the rock altered to red grey clay - contact with latite dyke has a core angle of 45 degrees

53.6 54.7
LATITE DYKE: -same description as 45.2-51.3
54.0-54.7 -10% of rock is altered to grey red clay -30% 2mm-2cmm dia subuangular clasts in rock (unknown clast lithology) -beginning of clay alteration has core angle of 50 degrees
54.7 -contact with polylithic brecccia has core angle of 45 degrees

54.7 58.0
CHLORITE ALTERED SILICEOUS INTRUSIVE BRECCIA: -same description as 29.8-45.2
54.7-55.7 -strong silic. -10% green clay along frct's in rock -minor vugs in silicified intervals

58.0 61.6
HEMATITE ALTERED LATITE BRECCIA: -80% 1-10cm dia. subrounded clasts of latite clasts in a brown red aphanitic matrix -clasts consits of 45% 0.5-1mm dia felspar crystals in a red brown aphanitic groundmass -strong hem alt., weak chl alt. -mod. (1/5cm) hairline qz-ca frct's -dominant core angles of frct's 20 and 40 degrees
60.5 - 2cm wide qz vein (core angle 60 degrees)
61.6 -contact with polylithic breccia, core angle 30 degrees

61.6 66.4
CHLORITE ALTERED SILICEOUS BRECCIA: -bleached interval with same description as 29.8-45.2
66.4 -contact with syenite breccia has core angle of 60 degrees

66.4 98.0
SYENITE BRECCIA: -75% 5mm-10cm dia. sub rounded clasts of grey orange fine grained equigranular syenite in grey orange fine grained syenite matrix - minor (<1%) volcanic clasts - mod hem alt, weak chl and K alt.,very minor silic - mod (1/5cm) qz frct's (dominant core angles 20 degrees and 50 degrees) -minor ca frct's -minior diss mt
66.4 68.0 -5% green white clay along frct's in rock
88.8-93.0 -many qz-ca frct's (3/5cm) -65% clasts, 35% matrix, 5% volcanic? clasts -2% green white clay along frct"s
88.8-90.3 -15% of rock is altered to green white clay
88.9 -5cm wide vuggy qz vn (core angle 60 degrees)

90.2 -2cm wide qz vn (core angle 70 degrees)
93.5- 96.5 -3% green white clay along frct' -mod amount of qz frct's (3/5cm) -mod silic.
97.0-98.0 -5% grey aphanitic volcanic? clasts
98.0 -contact with polylithic breccia (core angle 50? degrees)

98.0 113.9
POLYLITHIC INTRUSIVE BRECCIA: -30-70% 2mm-10cm dia subangular clasts in a fine grained light grey intrusive breccia matrix -clasts consist of orange fine grained syenite (20-70% of clasts), brown red latite (10-50% of clasts), light grey aphanitic volcanics (10-35% of clasts) and basalt (trace) -trace diss. mt and py -weak to mod. chl. alt. and silic. -weak hem alt and K alt.? -minor (1/5cm) qz frct's (up to 2mm wide) -dominant core angle of frct's are 25 degrees and 55 degrees
98.5-98.6 -breciated qz vn (core angle 45 degrees)
101.8-105.3 -mod chl. alt. and silic. -mod qz frct's (3/5cm)
107.3 -2cm wide vuggy qz vn (core angle 50 degrees)
113.8 -qz ca vn (core angle 70 degrees)
113.9 -contact with syenite breccia (core angle 25 degrees)

113.9 121.1
SYENITE BRECCIA: -same description as 66.4-98.0 -mod. chl. alt. in matrix
119.7-121.1 -mod to strong red orange alt. throughout rock (hem and K?)
121.1 -contact with polylithic breecia (core angle 50 degrees)

121.1 139.6
POLYLITHIC INTRUSIVE BRECCIA: -same description as 98.0-113.9 -minor green white clay along qz-ca frct's (up to 5mm wide) -very minor Fe-ox staining along frct's
129.0-130.0 -strong hem alt.
132.3-132.9 -interval of stong K alt. - possibly large syenite clast -core angle 80 degrees)
138.1-139.3 -crackle brecciated syenite clast -mod K alt., weak hem alt. -core angle 70 degrees

139.6 144.3
ALTERED POLYLITHIC INTRUSIVE BRECCIA: -same lithology as overlying unit that has been more intensely altered -mod chl. alt. and silic. -4% white clay along frct's -many (1/1cm) qz and creamy white (ankerite?) frct's, up to 5mm wide -minor qz flooding -4% white clay along frct's -clay alt. has caused small cavities to form in rock -core angle of most frct's is 20 degrees - this is possibly a fault zone
144.3 -contact with latite (core angle 20%)

144.3 182.5
LATITE DYKE -red grey aphanitic rock with 20% o.5-1.0mm dia white felspar crystals and 8% 1mm dia green black crystals of chlorite altered mafics - rock appears to be slightly calcareous (it reacts wel with HCl) -minor (1/10cm) hairline ca frct's (dominant core angle 50 degrees -minor 1-2mm dia. ca blebs in rock -minor hem alt. -some of the rock is crackle brecciated with fine grained latite? separating the clasts
144.3-148.4 -rock is slightly silicified -many (3/5cm) qz ca frct's with a dominant core angle of 50 degrees -2% white clay along frct's
148.4-150.1 -20% of rock is altered to green grey clay -clay alt. frct's

core angle of 20 degrees
150.0-155.0 -mod ca frct's (2/5cm)
154.0 -24cm wide ca vn (core angle 35 degrees)
169.5-171.5 -10% 1-3mm dia elongate ca blebs in rock
171.5 171.9 -ca vn (core angle 20 degrees)
172.2-172.4 -ca vn (core angle 20 degrees)
182.4 -3cm wide ca vn (core angle 20 degrees)
182.5 EOH

HOLE-ID	LOCATION [EAST]	LOCATION [NORTH]	LOCATION [ELEV.]	LENGTH	CORE SIZE	LOGGED BY	COMPLETED
MM92-11	9990.0	10547.5	1021.0	169.8	NQ	P.D.	13/06/92

FROM	TO	AZIMUTH	DIP
0.0	169.8	315.0	-60.5

FROM	TO	INTERVAL	SAMPLE NO.	RECOVERY	CU PPM	AU PPB
5.2	8.2	3.0	524143	97	61	5
11.3	14.3	3.0	524144	100	29	0
17.4	20.4	3.0	524145	100	42	0
23.5	26.5	3.0	524146	100	40	5
29.6	32.6	3.0	524147	100	48	5
35.7	38.7	3.0	524148	93	54	10
38.7	41.8	3.1	524149	100	109	10
41.8	44.8	3.0	524150	100	143	0
44.8	47.9	3.1	524151	100	76	0
47.9	50.9	3.0	524152	90	52	5
50.9	53.9	3.0	524153	93	60	5
57.0	60.0	3.0	524154	103	51	0
63.1	66.1	3.0	524155	100	60	5
69.2	72.2	3.0	524156	90	124	5
75.3	78.3	3.0	524157	97	57	15
81.3	84.4	3.1	524158	100	133	10
87.4	90.5	3.1	524159	100	49	0
93.5	96.6	3.1	524160	97	98	0
96.6	99.6	3.0	524161	103	169	15
99.6	102.7	3.1	524162	100	46	0
105.7	108.8	3.1	524163	100	60	0
111.8	114.9	3.1	524164	97	42	0
117.9	120.9	3.0	524165	100	57	10
124.0	127.1	3.1	524166	100	104	5
130.1	133.1	3.0	524167	100	148	10
136.2	139.2	3.0	524168	100	169	20
142.3	145.3	3.0	524169	100	200	25
145.3	148.4	3.1	524170	100	135	10
148.4	151.4	3.0	524171	100	62	15
154.5	157.5	3.0	524172	100	87	10
160.6	163.7	3.1	524173	100	70	5
166.7	169.8	3.1	524174	100	35	15

FROM	TO	ROCK-TYPE	RT-CODE
0.9	18.0	2	SYENBX
18.0	49.5	5	APOLYBX
49.5	53.4	10	FLT
53.4	68.6	5	APOLYBX
68.6	74.0	9	ALAT?
74.0	91.6	5	APOLYBX
91.6	102.1	5	FLT/APOLYBX
102.1	169.8	5	APOLYBX

FROM	TO	COMMENTS
0.	3.0	CASING:0-0.9m overburden 0.9-3.0m -SYENITE DOMINATED POLYLITHIC INTRUSIVE BRECCIA: -see 3.0-18.0m for description
3.0	18.0	**SYENITE DOMINATED POLYLITHIC INTRUSIVE BRECCIA:** -45-85% 2mm-10cm dia. subrounded clasts in grey green fine grained intrusive? matrix -clasts consist of orange grey fine graine egugranular syenite (50-90% of clasts), grey aphanitic altered volcanic? clasts (5-40% of clasts), red grey aphanitic latite? clasts (<10% of clasts), and feldspar porphyry clasts (<10% of rock) -mod chl. alt. (mainly in matrix), weak to mod. K alt. (mainly in syenite clasts), very minor silic. -<3% diss mt in syen clasts - rare diss py -minor (1/10cm) hairline qz frct's -most common core angle of frct's is 30 degrees
3.0	27.0	-minor Fe-ox staining along frct's
13.6	18.0	-90% 1-15cm dia. syen clasts
18.0	35.9	**CHLORITE ALTERED POTYLITHIC BRECCIA:** -probably same lithology as overlying unit -mod. to stong chl. alt. makes original texture difficult to recognize -minor silic -mod qz ca frct's (2/5cm) -most common core angle of frct's is 30 degrees <7% diss mt, <2% diss py -weak K alt. in syen clasts that are distinguishable -possibble basalt clasts in breccia

FROM	TO	COMMENTS
35.9	49.5	**CHLORITICALLY ALTERED SILICEOUS INTRUSIVE BRECCIA:** -same lithology as 3.0-18.0m -strong chloritic alt. and silic. has destroyed most of original texture -4% green white clay along frct's -many (3/5cm) qz ca frct's, up to 1cm wide -most common core angles of frct's are 50 degrees and 20 degrees -minor qz flooding -weak K alt. in syen clasts -<7% diss mt, <2% diss py -core is blocky
38.0		-5cm wide qz vv (core angle 50 degrees)
37.5		-3cm wide qz vn (core angle 20 degrees)
40.4		-3cm wide qz vn (core angle 15 degrees)
47.2		-2cm wide qz vn (core angle 8 degrees)
48.2	49.5	-25% of rock is altered to clay
49.5	53.4	**FAULT:** -light green polylithic breccia that has been altered (90% of the rock) to light green clay -core angle of fault is 15 degrees
53.4	68.6	**CHLORITE ALTERED POLYLITHIC INTRUSIVE BRECCIA:** -same description as 18.0-35.9m -most common core angle of qz ca frct's is 60 degrees -minor hem along frct's
68.6		-contact with latite (core angle 65 degrees)
68.6	74.0	**K ALTERED LATITE?:** -flesh coloured fine grained rock with 35% 0.5-2mm dia. feldspar phenocrysts and 8% small black specs (biotite?) -mod hem and K? alt. -minor chl alt. in phenocrysts -minor (1/5cm) qz frct's, up to 2mm wide -most common core angle of frct's is 70 degrees

FROM	TO	COMMENTS
74.0	91.6	**CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** -60-85% 5mm-5cm dia. subangular clasts in grey green fine grained intrusive matrix? -stong chl alt. in both clasts and matrix makes original texture of rock difficult to recognize -weak to mod. silic., minor K alt. along frct's and in syen clasts -clasts consist of feldspar porphyry (most abundant), syenite and altered volcanics -due to alt. it is usually difficult to distinguish clast lithology -<5% diss mt, trace diss. py -mod. (2/5cm) ca frct's -most common core angles of frct's are 65 degrees and 20 degrees
74.0	76.0	-mod silic. -minor qz flooding
76.0		-2cm wide vugg y qz vn (core angle 20 degrees)
91.6	102.1	**CHLORITIC AND CLAY ALTERED POLYLITHIC BRECCIA:** -same rock unit as above with 5-35% grey green clay alt. along frct's and eminating outwards into rock -mod silic. -ca frct's have core angles ranging from 15-35 degrees -possibly part of a fault
102.1	143.5	**CHLORITICALLY ALTERED POLYLILITHIC BRECCIA:** -same description as 74.0-91.6 -increase in amount of syenite clasts and decrease in feldspar porphyry clasts -coe angles of ca frct's range from 20 to 40 degrees
102.1	105.0	-2% light green clay along frct's
123.0	136.0	-2% green clay along frct's
134.4	125.0	-strong silic.
141.0	142.5	-minor light green clay alt.
143.5	151.3	**CHLORITIC SILICEOUS POLYLITHIC BRECCIA:** same lithology as 74.0-91.6 -mod to strong chl. alt. and silic. -weak K alt. (mainly in syen. clasts) - mod (2/5cm) 1mm-1cm wide vuggy qz vnlt's -minor pale yellow clay along qz vnlt's -most common core angle of vnlt's is 30 degrees

FROM	TO	COMMENTS
151.3		**CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** - same description as 74.0-91.6 -minor (1/5cm) ca frct's, up to 7mm wide -most common core angle of frct's is 75 degrees -minor green white clay along frct's
160.5	161.7	- 5% of rock is altered to grey green clay - rock is moderately silicified
161.7		- 3cm wide brecciated qz vn (core angle 35 degrees)
169.8		-EOH

HOLE-ID	LOCATION [EAST]	LOCATION [NORTH]	LOCATION [ELEV.]	LENGTH	CORE SIZE	LOGGED BY	COMPLETED
MM92-12	10106.5	10576.0	1015.0	151.5	NQ	P.D.	14/06/92

FROM	TO	AZIMUTH	DIP
0.0	151.5	90.0	-65.0

FROM	TO	INTERVAL	SAMPLE NO.	RECOVERY	CU PPM	AU PPB
5.1	8.2	3.1	524210	100	21	0
11.2	14.3	3.1	524211	100	539	275
17.3	20.4	3.1	524212	100	109	5
23.4	26.5	3.1	524213	100	51	0
29.5	32.6	3.1	524214	100	159	5
32.6	35.6	3.0	524215	100	159	10
35.6	38.7	3.1	524216	100	3	5
38.7	41.7	3.0	524217	100	81	10
41.7	44.8	3.1	524218	100	545	35
44.8	47.8	3.0	524219	100	166	20
47.8	50.9	3.1	524220	100	17	5
50.9	53.9	3.0	524221	100	1175	60
53.9	56.0	2.1	524222	100	2773	120
56.0	56.9	0.9	524223	100	5235	230
56.9	60.0	3.1	524224	100	1506	105
60.0	63.0	3.0	524225	100	4627	170
63.0	66.1	3.1	524226	100	5236	280
66.1	69.1	3.0	524227	100	5406	335
69.1	72.2	3.1	524228	100	3209	250
72.2	75.2	3.0	524229	100	1980	80
75.2	78.3	3.1	524230	100	655	40
78.3	81.3	3.0	524231	100	151	15
81.3	84.4	3.1	524232	100	102	5
84.4	87.4	3.0	524233	100	137	10
87.4	90.5	3.1	524234	100	96	5
90.5	93.5	3.0	524235	100	89	0
93.5	96.6	3.1	524236	100	91	0
96.6	99.6	3.0	524237	100	104	0
99.6	102.7	3.1	524238	100	98	0
105.7	108.8	3.1	524239	100	134	0
111.8	114.9	3.1	524240	100	97	0
117.9	121.0	3.1	524241	100	96	0
124.0	127.1	3.1	524242	100	42	0
130.1	133.1	3.0	524243	100	70	0
133.1	136.2	3.1	524244	100	112	0
139.2	142.3	3.1	524245	100	102	5
145.3	148.4	3.1	524246	100	155	0

FROM	TO	INTERVAL	CU PPM	AU PPB
50.9	75.2	24.3	3331	179

FROM	TO	ROCK-TYPE	RT-CODE
0.0	0.6	1	OB
0.6	10.0	5	APOLYBX
10.0	17.2	8	ALAT
17.2	20.2	5	APOLYBX
20.2	30.7	6	LAT
30.7	33.6	5	APOLYBX
33.6	56.0	8	ALAT
56.0	70.3	3	KSYENBX
70.3	74.8	8	ALATBX
74.8	80.8	5	APOLYBX
80.8	82.9	7	ALAT
82.9	88.6	4	POLYBX
88.6	101.2	5	APOLYBX
101.2	118.3	4	POLYBX
118.3	121.1	8	ALATBX
121.1	129.4	8	ALATBX
129.4	133.3	10	FLT/ALATBX
133.3	135.0	8	ALATBX
135.0	144.0	6	LAT
144.0	148.0	4	POLYBX
148.0	151.5	6	LAT

FROM	TO	COMMENTS
0.0 0.0 0.6	3.0 0.6 3.0	**CASING:** overburden **CHLORITICALLY ALTERED SILICEOUS POLYLITHIC BRECCIA:** -see below unit for description
3.0	10.0	**CHLORITICALLY ALTERED SILICEOUS POLYLITHIC BRECCIA:** -80% 3mm-5cm dia. grey green subangular clasts in fine grained grey green intrusive? matrix -clasts consit of fine grained syenite (70-90% of clasts), feldspar porphyry (5-10% of clasts), latite (5-10% of clasts) and grey aphanitic volcanics? (5-10% of clasts) -stong chl. alt. altering most of original texture -weak to mod. silic. -very weak K alt. (mainly in syen clasts) -minor (1/10cm) qz frct's -most common core angle of frct's is 40 degrees -tr diss py and mt - minor Fe-ox staining along frct's
10.0 17.2	17.2	**SILICEOUS LATITE:** -green grey aphanitic rock with 25% 0.5-2mm dia. feldspar crystals 5-10% chloritically altered mafic specs -rock contains 5% 5mm-2cm dia. subrounded clasts of syenite feldspar porphyry and aphanitic volcanics -strong silic. masks much of original texture -mod. chl. alt. -weak K alt. in some clasts -tr diss py -mod (2/5cm) qz frct's up to 5mm wide -most common core angle of qz frct's is 40 degrees -minor Fe-ox staining along frct's -contact with polylithic breccia (core angle 60 degrees)
'17.2	20.2	**SILICEOUS CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** -grey green fine grained intrusive matrix with 30-70% 5mm-3cm dia.subangular clasts -clasts consist of latite (70-90% of clasts), feldspar porphyry (5-10% of clasts), syenite (10-30% of rock) and aphanitic volcanics? (<5% of clasts) -mod to strong chl. alt. and silic. alters much of the original rock texture -mod (2/5cm) qz frct's, up to 5mm wide -most common core angle of qz frct's is 40 degrees -tr diss py -minor Fe-ox staining along frct's -contact with latite is 30 degrees
20.2		

FROM	TO	COMMENTS
20.2	30.7	**LATITE DYKE:** -red grey fine grained rock with 25% 0.5-2.0mm dia. feldspar crystals and 5% 0.5mm dia. mafic phenocrysts (biotite and hornblende?) - weak chl. alt. and silic. - minor hem in rock -mod (2/5cm) hairline qz frct's -most common core angle of frct's is 35 degrees -minor Fe-ox along frct's
30.7		-contact with polylithic breccia (core angle 60 degrees)
30.7	33.6	**SILICEOUS CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** -same description as 17.2-20.2m -mod (2/5cm) vuggy qz vnlt's, upto 7mm wide -rock is slightly bleached and has minor Fe-ox along frct's
33.6		-contact with latite (core angle 60 degrees)
33.6	38.8	**SILICEOUS LATITE:** -light grey fine grained rock with 30% 0.5-2.0mm dia. feldspar crystals and 15% 0.5mm dia Mn-ox? specs -5% 2mm-5mm dia. light grey altered clasts in latite -mod. to strong silic alters much of the original texture of the rock -weak chl alt. -mod (2/5cm) qz vnlt's ,up to 5mm wide -most common core angle of veinlets is 60 degrees -rock is slightly bleached
38.8	56.0	**K ALTERED LATITE? BX:** -flesh coloured fine graine rock with 20% 0.5mm-3mm dia feldspar crystals and 15% 0.5mm dia. (mn-ox?) specs hydrothermal alteration along frct's has seperated rock into individual clasts -<5% 5mm 1cm dia. subangular light grey aphanitic volcanic? clasts in latite -strong K alt. has altered original texture of rock -rock is possibly K altered syenite? -mod silic., weak chl. alt. -many (3/5m) qz frct's, up to 5mm wide, in rock -early phase fracuring has core angles in any direction -late phase fracturing has a most common core angle of 30 degrees - much black (Mn-ox?) material found along frct's, associated with tr py and very minor cpy
51.0	52.6	- bleached interval with strong chl. alt. and silic. -minor green white clay along frct's
56.0		-contact with syen. (core angle 40 degrees)

FROM	TO	COMMENTS
56.0	70.3	**K ALTERED SYENITE BRECCIA:** -80% 5mm-10cm dia subangular clasts of grey orange fine grained eguigranular syenite in grey orange fine grained intrusive matrix -<5% light grey altered volcanic? clasts in both syenite clasts and intrusive matrix -strong K alt. -weak to mod chl. alt. and silic. -mod (2/5cm) qz-ca frct's, up, to 5mm wide -more than one generation of qz-ca fracturing occurs, and sulphide mineralization appears to occur with one of the earlier fracturing stages -<3% cpy and <5% cpy (diss and along frct's) -<5% diss mt
59.8	60.6	-minor white clay along frct's -with 5cm wide vuggy qz vn at end of interval (core angle 40 degrees)
62.2	62.4	- 25% of rock is altered to light green clay-fault (core angle 65 degrees)
64.5	65.4	-strongly silicified interval -original texture is destroyed (core angle of frct's is 60 degrees
66.3	66.8	-7% cpy
70.3	74.8	**K ALTERED LATITE?? BRECCIA:** -orange grey fine grained rock with 25% 0.5-3.0mm dia feldspar crystals -strong K alt. makes it difficult to distinguish if the rock is a K altered latite or syenite -weak to mod. silic. and weak chl. alt. -hydrothermal alteration along frct's separates rock into individual clasts -<5% different rock clast, up to 2cm long, of unknown lithology -mod. (2/5cm) qz frct's, up to 5mm wide -most common core angles of frct's are 25 degrees (early) and 45 degrees (late) -<3% py and tr cpy (diss and along frct's) -unknown black mineral is associated with sulphide bearing frct's
74.8		-contact with poplylithic breccia (core angle 50 degrees)

FROM	TO	COMMENTS
74.8	80.8	**HEMATITIC POLYLITHIC INTRUSIVE BRECCIA:** -75% 2mm-5cm dia. subangular clasts in brown red hematite rich fine grained intrusive? matrix - clasts consist of latite (70% of clasts), syenite (20% of clasts) and light grey volcanic clasts -much hem. in rock -mod. chl. alt., weak silic. -minor (1/10cm) qz frct's, up to 5mm wide -most common core angle of frct's is 50 degrees
74.8	76.0	-mod. to strong chl. alt. and silic., minor K alt.
79.4	80.0	- 30% of rock is altered to red brown clay (fault) -core angle60 degrees
80.8		-contact with latite (core angle 50 degrees)
80.8	82.9	**SILICEOUS CHLORITICALLY ALTERED LATITE:** -grey green fine grained rock with 30% 0.5-2.0mm dia. feldspar crystals -mod chl alt. and silic., weak K alt. -minor (1/10cm) qz frct's, up to 5mm wide -most common core angles of qz frct's are 35 degrees and 90 degrees
82.9	88.6	**POLYLITHIC INTRUSIVE BRECCIA:** 75%2mm-5cm dia. subangular claasts in light grey fine grained intrusive? matrix -clasts consist of latite (70%of clasts), syenite (20% of clasts) and light grey volcanics - weak chl alt. and silic. minor hem. in matrix - minor (1/10cm) qz frct's, up to 5mm wide -most common core angle of frct's is 70 degrees
88.6		-contact with qz flooded breccia (core angle 75 degrees)
88.6	01.2	**QUARTZ FLODED CLAY ALTERED POLYLITHIC BRECCIA:** -same rock type as overlying unit that contians minor qz flooding and minor green white clay alt. along frct's -shear zone
98.0	98.4	- 25 % of rock is altered brown red clay
100.7	101.2	- brecciated qz vn with 10% yellow white clay (core angle 25 degrees)

FROM	TO	COMMENTS
101.2	118.3	**POLYLITHIC INTRUSIVE BRECCIA:** -same description as 82.9 to 88.6
110.0	112.0	-minor yellow white clay along frct's
114.0	114.5	-interval of latite with 5% 2mm -2cm dia. foreign clasts (core angle 45 degrees)
118.3		-contact with clay altered breccia (core angle 60 degrees)
118.3	121.1	**CLAY AND K ALTERED LATITE BRECCIA;** -same description as underlying unit with 7% of the rock altered to yelow white clay -mod. (3/5cm) qz frct's, up to 5mm wide, (core angle 45 degrees) associated with clay alt.
120.9	121.1	- qz vn with 10% green white clay (core angle 35 degrees)
121.1	129.4	**K ALTERED LATITE? BRECCIA:** -80% 3mm-3cm dia. subrounded clasts in fine grained intrusive? matrix -clasts consist mainly of latite?, with minor clasts of unknown lithology also in the breccia -rock is grey orange -strong K alt. and mod chl. alt. makes original texture difficult to distinguish -minor chl. alt. and hem. -minor (1/10cm) qz frct's, up to 5mm wide -most common core angles of frct's are 20 degrees (earlier) and 60 degrees (late)
124.0	127.0	-minor yellow white clay along frct's -core angle of clay frct's is 60 degrees
128.0	129.4	- minor green white clay along frct's -core angle of clay frct's is 60 degrees
129.4	133.3	**SHEARED LATITE:** -red grey latite with 15% 2-5mm wide qz-biotite veins (core angle 30 degrees) -minor white clay along frct's -minor chl alt. -minor hem in latite -weak K alt.
132.1	132.6	- qz vn (core angle 60 degrees)
133.3	135.0	**K ALTERED LATITE? BRECCIA:** -same description as 121.1-129.4 metres

FROM	TO	COMMENTS
135.9	144.0	**LATITE:** -red grey fine grained rock with 25% 0.5-2mm dia. feldspar crystals and 5-10% 0.5mm dia mafic grains (biotite and hornblende?) - weak chl. alt. (mainly in felspar crystals) - latite is hematitic -mod (2/5cm) qz frct's - most common core angle of frct's is 60 degrees -fractuting along rock has breeciated part of rock into crackle breccia
144.0		- contact with polylithic breccia (core angle 65 degrees)
144.0	146.0	**POLYLITHIC INTRUSIVE BRECCIA:** -65% 2mm-3cm dia. subangular clasts in green grey fine grained intrusive? matrix -clasts consist of latite (70% of clasts), light grey volcanics (20% of clasts) and syenite -minor chl. alt. and silic. -minor hem. in matrix -mod.(2/5cm) qz frct's, up to 5mm wide -most common core angle of frct's is 70 degrees
146.0		- contact with latite (core angle 55 degrees)
146.0	151.5	**LATITE:** -same description as 135.9-144.0 metres
148.6		- 5cm wide qz vn (core angle 30 degrees)
151.5		-EOH

HOLE-ID	LOCATION [EAST]	LOCATION [NORTH]	LOCATION [ELEV.]	LENGTH	CORE SIZE	LOGGED BY	COMPLETED
MM92-13	10560.0	10703.0	951.0	111.9	NQ	P.D.	14/06/92

FROM	TO	AZIMUTH	DIP
0.0	111.9	44.0	-48.0

FROM	TO	INTERVAL	SAMPLE NO.	RECOVERY	CU PPM	AU PPB
6.1	8.2	2.1	524297	95	139	5
8.2	11.2	3.0	524298	93	149	5
11.2	14.3	3.1	524299	97	119	0
14.3	17.3	3.0	524300	93	71	0
17.3	20.4	3.1	524301	94	92	0
26.5	29.5	3.0	524302	83	64	10
35.6	38.4	2.8	524303	79	101	5
44.1	47.5	3.4	524304	85	151	10
53.6	56.8	3.2	524305	94	59	0
56.8	60.0	3.2	524306	97	85	0
60.0	63.0	3.0	524307	100	92	5
63.0	66.1	3.1	524308	97	160	0
72.2	75.3	3.1	524309	100	189	0
81.4	84.4	3.0	524310	100	46	0
90.5	93.6	3.1	524311	100	16	0
99.7	102.7	3.0	524312	100	40	0
108.8	111.9	3.1	524313	100	33	5

FROM	TO	ROCK-TYPE	RT-CODE
0.0	4.5	1	OB
4.5	6.6	12	ANDBX
6.6	8.2	8	ALATBX
8.2	16.3	12	ANDBX
16.3	111.9	14	FP

FROM	TO	COMMENTS
0.0	6.1	**CASING:** -approximately 1.0 metre of casing sample (HQ core) was collected -not sure how deep overburden is (5.0 mtres?) -casing collected is BRECCIATED ANDESITE -same as underlying core
6.1	6.6	**ANDESITE BRECCIA:** -dark grey aphanitic rock with 15% 0.5mm dia. feldspar crystals and 5% 1mm dia. mafic phenocrysts (biotite and hornblende?) -fracturing in rock has separated it into individual clasts (crackling) -minor Fe-ox along frct's -minor hairline qz frct's -minor Fe-ox staining along frct's -minor chl. alt.
6.6	8.2	**BLEACHED LATITE:** -grey white fine grained rock with 25% 05.-1.0mm dia. feldspar crystals and 10% 0.5mm dia. mafic specs (biotite and hornblende) -mod. (3/5cm) qz vnlt's, up to 1cm wide -most common core angles of vnlt's are 20 and 50 degrees -rock is bleached and slightly silic. -minor chl. alt. -much Fe-ox staining along frct's -tr diss. py
8.2		-contact with andesite (core angle 40 degrees)
8.2	16.3	**ANDESITE BRECCIA:** -dark grey aphanitic rock with 15% 0.5mm dia. feldspar crystals and 5% 1mm dia. mafic phenocrysts (biotite and hornblende?) -fracturing in rock has separated it into individual clasts (crackling) -3% 2mm-2cm dia subangular light grey aphanitic andesite? clasts in rock -mod chl. alt. minor yellow white clay along frct's -minor epidote along frct's -many (1/1cm) hairline qz frct's -qz frct's have no preffered orientation -core is blocky and has mod. Fe-ox staing along frct's
	16.3	-contact with feldspar porphyry (core angle 65 degrees)

FROM	TO	COMMENTS
16.3	111.9	**FELDSPAR PORPHYRITIC SYENITE:** -orange grey to light grey fine grained rock with 25% 1mm-1cm dia. felspar (probably K feldspar) phenocrysts and 5% 0.5mm mafic (biotite and possibly hornblende?) grains -feldspar crystals are often zoned -weak chl. alt. -minor (1/1m) qz vnlt's, up to 1cm wide -most common core angle of qz vnlt's is 55 degrees -contact with andesite does not appear to be chilled but there is minor white clay along frct's for a 1m int. adj. to and.
16.3	26.0	-minor Fe-ox staining along frct's
16.3	56.0	-core is block -recov. between 80 and 95%
57.5	60.0	-core is slightly bleached -minor white clay along frct's
62.4	63.8	-shear zone -2-10% white clay along frct's - core angle of clay frct's is 50 degrees
78.0	81.5	-core is slightly bleached -minor white clay along frct's
93.9	94.1	-qz (80%), K feldspar (15%), chl. (5%) vn (core angle 60 degrees)
111.9		-EOH

HOLE-ID	LOCATION (EAST)	LOCATION (NORTH)	LOCATION (ELEV.)	LENGTH	CORE SIZE	LOGGED BY	COMPLETED
MM92-14	10314.5	10564.0	989.0	118.0	NQ	P.D.	15/06/92

FROM	TO	AZIMUTH	DIP
0.0	118.0	270.0	-65.0

FROM	TO	INTERVAL	SAMPLE NO.	RECOVERY	CU PPM	AU PPB
5.2	8.2	3.0	524276	93	121	5
11.2	14.3	3.1	524277	100	98	0
17.3	20.4	3.1	524278	100	119	0
23.4	26.5	3.1	524279	100	100	5
29.5	32.6	3.1	524280	100	186	25
35.6	38.7	3.1	524281	100	109	0
41.7	44.8	3.1	524282	100	131	5
44.8	47.8	3.0	524283	100	4	5
50.9	53.9	3.0	524284	100	44	10
56.9	60.0	3.1	524285	100	68	0
60.0	63.0	3.0	524286	100	30	5
63.0	66.1	3.1	524287	100	33	0
66.1	69.1	3.0	524288	100	23	0
69.1	72.2	3.1	524289	100	12	0
75.2	78.3	3.1	524290	100	38	5
81.3	84.4	3.1	524291	100	64	0
87.4	90.5	3.1	524292	100	49	5
93.5	96.6	3.1	524293	100	3505	55
99.6	102.7	3.1	524294	100	428	45
105.7	108.8	3.1	524295	100	276	50
111.8	114.9	3.1	524296	100	225	5

FROM	TO	ROCK-TYPE	RT-CODE
0.0	1.0	1	OB
1.0	42.9	4	POLYBX
42.9	59.4	5	APOLYBX
59.4	84.4	8	ALATBX
84.4	95.1	5	APOLYBX
95.1	118.0	6	LAT

FROM	TO	COMMENTS
0.0	3.0	**CASING:** -0.0-1.0 metres overberden 1.0-3.0 -**POLYLITHIC INTRUSIVE? BRECCIA:** - casing samples are of the same description as the underlying core samples
3.0	42.9	**POLYLITHIC INTRUSIVE? BRECCIA:** -80% 5mm-5cm dia. subrounded clasts in green grey fine grained intrusive? matrix -clasts consist of grey red latite (60% of clasts), orange grey syenite (30% of clasts) and grey aphanitic volcanic clasts -weak chl alt. -portions of the rock are slightly silicified -minor Fe-0x staining along frct's -tr diss py -minor (1/10cm) qz frct's, up to 5mm wide -most common core angles of frct's are 30 degrees and 60 degrees
3.0	10.0	- core is blocky -much Fe-ox along frct's - poor recovery
3.0	20.3	-mod. (<5%?) diss mt
20.3	21.4	-mod. chl. alt. and silic. -much of original texture is destroyed -mod. Fe-ox along frct's -core is blocky
21.4	28.8	-matrix is red grey (hematite rich) -70% of the clasts are latite
28.8	33.2	-mod chl. alt. -7% of clasts are syen.
33.2	42.9	-much hematite in matrix
42.9	47.5	**SILICEOUS CLAY ALTERED POLYLITHIC BRECCIA:** - green white rock with 75% subrounded clasts, up to 5cm in dia., in fine grained intrusive matrix -clasts probably consist of latite syenite and andesite, clast type is difficult to determine due to alteration in rock -mod. to strong silic. clay alt. and bleaching makes original texture difficult to distinguish - mod. chl alt. -4% py (diss and along frct's) -minor (1/10cm) qz vnlt's, up to 1cm wide - clay, py, qz frct's have a core angle of 25 degrees -minor Fe-ox staining along frct's - shear zone

FROM	TO	COMMENTS
47.5	53.0	**CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** - grey green rock with 70% 5mm-7cm dia. subrounded clasts in a fine grained intrusive? matrix -clasts consist of grey red latite (65% of clasts), orange grey syenite (20% of clasts) and grey aphanitic andesite -mod. to strong chl alt. -minor weakly silic. intervals over portions of the rock -minor hem. in rock -tr diss. py -minor (1/10cm) qz frct's, up to 5mm wide -most common core angles of qz frct's are 25 and 50 degrees -
53.0	59.4	**HEMATITIC POLYLITHIC BRECCIA:** -same rock type as overlying unit with much hematite in matrix giving it a brown red colour -chl. alt. is minor (but is possibly overprinted by hem.)
59.4	60.2	**K ALTERED LATITE:** -brown orange fine grained rock with 25% 0.5mm-2.0mm dia. feldspar crystals and 8% 0.5mm dia. mafic specs (biotite and hornblende?) -mod K alt., weak chl. alt., slight silic. -mod. (3/5cm) qz frct's, up to 5mm in dia. -most common core angle of frct's is 50 degrees -hydrothermal fracturing has separated rock into individual clasts (crackling)
60.2	71.0	**SILICEOUS CLAY ALTERED LATITE BRECCIA:** -same rock type as overlying unit that is bleached - moderate to strong silic. and green white clay (3% of rock) -much of original texture of rock is gone -mod. chl. alt., weak K alt. -minor hem. along frct's -2% py (diss and along frct's) -mod. (3/5cm) qz vntl's, up to 2cm wide -core angle of qz, py clay, chl. frct's is 35 degrees -core is blocky -shear zone
71.0	84.4	**K ALTERED LATITE:** -same description as 59.4-60.2 metres
71.0	78.0	-minor white clay along frct's -core is blocky -mod. chl. alt.
74.1	74.3	-qz vn (core angle 60 degrees)

FROM	TO	COMMENTS
84.4	94.3	**K ALTERED POLYLITHIC BRECCIA:** -grey orange rock with 80% 2mm-10cm dia. subrounded to subangular clasts -clasts consist of latite (65-90% of clasts), syenite (5-20% of clasts) and andesite (5-15% of clasts) -mod K alt. -weak chl. alt. and silic. -minor hem. in rock -mod. (2/5cm) qz frct's, up to 5mm wide
87.0	88.0	-hematite rich interval (core is brown red)
91.0	94.3	-many (1/1cm) qz frct's
94.3	95.1	**CLAY ALTERED POLYLITHIC BRECCIA (FAULT):** -same lithology as overlying unit -20% of rock is altered to green white clay -core angle of fault is 60 degrees
95.1	118.0	**LATITE:** -redish black fine grained rock with 25% 0.5-2.0mm dia. feldspar crystals and 5-10% 0.5mm dia. mafic specs (biotite and hornblende?) -rock is hematite rich -weak chl. alt. -mod (2/5cm) qz frct's, up to 5mm wide -most common core angle of frct's is 55 degrees -hydrothermal fracturing has separated rock into individual clasts (crackling)
110.0	118.0	- minor qz flooding -3-8% qz along irregularly shaped frct's in rock
118.0		-EOH

DATE:30/06/92 DDH MM92-15 Page: 1

HOLE-ID	LOCATION [EAST]	LOCATION [NORTH]	LOCATION [ELEV.]	LENGTH	CORE SIZE	LOGGED	
MM92-15	9927.0	11332.0	931.0	108.8	NQ	P.D.	16/06/92

FROM	TO	AZIMUTH	DIP
0.0	108.8	270.0	-56.0

FROM	TO	INTERVAL	SAMPLE NO.	RECOVERY	CU PPM	AU PPB
3.0	5.2	2.2	524175	82	433	35
5.2	8.2	3.0	524176	100	149	0
8.2	11.3	3.1	524177	97	232	25
11.3	14.3	3.0	524178	100	759	40
14.3	17.4	3.1	524179	97	587	50
17.4	20.4	3.0	524180	100	437	25
20.4	23.5	3.1	524181	100	518	40
23.5	26.5	3.0	524182	100	514	40
26.5	29.6	3.1	524183	100	558	45
29.6	32.6	3.0	524184	100	845	40
32.6	35.7	3.1	524185	100	713	30
35.7	38.7	3.0	524186	100	510	50
38.7	41.7	3.0	524187	100	495	20
41.7	44.8	3.1	524188	100	473	20
44.8	47.8	3.0	524189	100	669	35
47.8	50.9	3.1	524190	100	907	45
50.9	53.9	3.0	524191	100	657	35
53.9	56.9	3.0	524192	100	392	35
56.9	60.0	3.1	524193	100	888	80
60.0	63.0	3.0	524194	100	464	40
63.0	66.1	3.1	524195	100	1136	90
66.1	69.1	3.0	524196	100	783	50
69.1	72.2	3.1	524197	100	416	40
72.2	75.2	3.0	524198	100	589	70
75.2	78.3	3.1	524199	100	619	70
78.3	81.3	3.0	524200	100	470	70
81.3	84.4	3.1	524201	100	592	40
84.4	87.4	3.0	524202	100	593	35
87.4	90.5	3.1	524203	100	998	55
90.5	93.5	3.0	524204	100	772	45
93.5	96.6	3.1	524205	100	643	40
96.6	99.7	3.1	524206	100	582	180
99.7	102.7	3.0	524207	100	419	35
102.7	105.7	3.0	524208	100	396	25
105.7	108.8	3.1	524209	100	699	35

FROM	TO	INTERVAL	CU PPM	AU PPB
3.0	108.8	105.8	599	46

FROM	TO	ROCK-TYPE	RT-CODE
0.0	3.4	1	0B
3.4	108.8	19	AFPBX

0.0 3.4
OVERBURDEN: -casing

3.4 5.9
CHLORITE ALTERED SILICEOUS FELDSPAR PORPHYRY BRECCIA: -85-95% 1cm 1-25cm dia. subangular clasts consisting mainly of grey green felspar porphyry in a fine grained grey geen (feldspar porphyry?) matrix -felspar porphyry originally consisted of a fine grained grey rock with 35-40% 2-8mm dia. feldspar phenocrysts and 2-10% 1-3mm dia. mafic (biotite and amphibole?) phenocrysts -<5% grey gren aphanitic volcanic? clasts occcuring both as individual clasts and as clasts within feldspar porphyry clasts -strong chl. alt. and weak to mod. silic. alters original texture of rock -weak K alt. -tr cpy and py (diss and along frct's) -tr diss mt -mod (3/5cm) qz frct's, up to 5mm wide, with most common core angles of 25 degrees (late) and 55 degrees (early) -sulphides appear to be related to the earlier qz veining phase -mod Fe-ox staining

5.9 8.6
<5% DISS mt, 5-10% 1-2mm dia. chlorite grains in rock

8.6 11.1
-strong hem alt. -rock is brown red -most felspar phenos. are alt. to chl.

11.1 21.8
-strong K alt. -rock is flesh coloured -weak to mod. chl. alt and silic. -many (1/1cm) hairline qz frct's -most common core angles 60 and 20 degrees -11.1-11.2m minor qz flooding (20% qz in rock) -7% py in qz

21.8 32.0
-mod K alt., weak chl. and silic. alt -mod Fe-ox staining along frct's -<5%py and tr cpy (diss and along frct's -tr mt with sulphide frct's -many (1/1cm) qz frct's, up to 5mm wide -most common core angles of frct's are 40 degrees (early) and 60 degrees (late) -sulphides appear to be associated with earlier stage veining

32.0 58.1
-end of Fe-ox staining -mod to strong K alt. -weak chl alt. (mainly along frct's) -weak silic. -<7% py and < 2% cpy (along frct's and diss), tr mt along py frct's -minor black mineral (chalcocite??) associated with sulphide frct's -very rare silver coloured metalic specs -many (3/5cm) qz frct's, up to 5mm wide -most common core angles of frct's are 60 degrees (late) and 30 degrees (early) -sulphides appear to occur with earlier veining stage -rock is orange grey

58.1 64.3
-strong K alt. (rock is flesh coloured) -weak to mod silic. -weak chl. alt. -many (3/5cm) qz frct's up to 7mm wide -most common core angles of frct's are 20 (late) and 60 (early) degrees -<7%py and < 4%cpy diss and along frct's in rock -minor unknown black mineral along frct's with sulphides -sulphides appear to occur with earlier phase veining
-60.3-60.4m -8% cpy

64.3 68.7

-same description as 32.0-58.1m
64.3-66.1 -minor white clay along frct's -mod silic.
64.9 -5cm wide qz vn (core angle 60 degrees)

68.7 76.5
-same description as 58.1-64.3m -

76.5 97.0
-mod. K alt., weak to mod. silic, weak chl. alt. -mod (3/5cm) qz frct's, up to 5mm wide -most common core angles of frct's are 40 degrees (early) and 30 degrees (late) -<5%py and <2%cpy (diss and along frct's) -sulphides appear to occur with earlier stage veining -unknown black mineral occurs with sulphides along frct's

97.0 103.3
-80% 1mm-3cm dia. light grey felpar porphyry clasts in a light grey matrix consisting of silicified felspar porphyry and quartz -more explosive phase of hydrothermal brecciation -mod. silic., weak to mod K alt., minor chl. alt. -<3% py and tr cpy (diss and along frct's -many (1/1cm) qz frct's with core angles in all directions
-102.9m -4cm wide vuggy qz vn (core angle 50 degrees)

103.3 108.8
-mod K alt., weak silic and chl alt. -<2%py and tr cpy diss and along frct's -mod (3/5cm) qz frct's, up to 5mm wide -most common core angle of frct's is 45 degrees
-108.8 -EOH

HOLE-ID	LOCATION [EAST]	LOCATION [NORTH]	LOCATION [ELEV.]	LENGTH	CORE SIZE	LOGGED BY	COMPLETED
MM92-16	9761.0	11276.0	929.0	108.8	NQ	P.D.	17/06/92

FROM	TO	AZIMUTH	DIP
0.0	108.8	90.0	-55.0

FROM	TO	INTERVAL	SAMPLE NO.	RECOVERY	CU PPM	AU PPB
0.2	3.0	2.8	524247	0	294	10
3.0	5.2	2.2	524248	55	2072	35
5.2	8.2	3.0	524249	100	163	10
8.2	11.3	3.1	524250	100	113	5
11.3	14.3	3.0	524251	100	93	5
14.3	17.4	3.1	524252	100	102	0
17.4	20.4	3.0	524253	100	578	25
20.4	23.5	3.1	524254	100	176	10
23.5	26.5	3.0	524255	100	141	10
26.5	29.6	3.1	524256	100	588	40
29.6	32.6	3.0	524257	100	114	0
32.6	35.7	3.1	524258	100	142	5
35.7	38.7	3.0	524259	100	114	0
38.7	41.8	3.1	524260	100	106	0
41.8	44.8	3.0	524261	100	85	0
44.8	47.9	3.1	524262	100	111	0
47.9	50.9	3.0	524263	100	125	5
50.9	53.9	3.0	524264	100	86	0
53.9	57.0	3.1	524265	100	134	0
57.0	60.0	3.0	524266	100	93	0
63.1	66.1	3.0	524267	100	132	5
69.2	72.2	3.0	524268	100	116	0
72.2	75.3	3.1	524269	100	120	5
78.3	81.4	3.1	524270	100	110	10
81.4	84.4	3.0	524271	100	219	5
84.4	87.5	3.1	524272	100	69	0
90.5	93.6	3.1	524273	100	81	0
96.6	99.7	3.1	524274	100	161	0
102.7	105.8	3.1	524275	100	30	0

FROM	TO	ROCK-TYPE	RT-CODE
0.0	0.5	1	OB
0.5	57.3	5	APOLYBX
57.3	64.3	7	LATBX
64.3	84.0	5	APOLYBX
84.0	87.1	10	FLT
87.1	99.4	8	ALATBX
99.4	108.8	5	APOLYBX

FROM	TO	COMMENTS
0.0	3.0	**CASING:** 0.0-0.5 m -overburden 0.5-3.0 m **SILICEOUS CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** -same description as underlying unit -casing samples were sent in for analysis
3.0	6.4	**SILICEOUS CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** -light green rock with 65% 5mm-3cm dia. subangular to subrounded clasts in a fine grained intrusive matrix -clasts consist of latite (60% of clasts), green grey aphanitic volcanic? clasts (20% of clasts) and feldspar porphyry clasts (20% of clasts) -strong chloritic and mod. silic. alt. has destroyed much of original texture -<3% py and tr cpy (diss and along frct's) -mod. Fe-ox staining along frct's -mod. (2/5cm) qz frct's, up to 5mm wide
6.4	11.2	**HEMATITIC POLYLITHIC BRECCIA:** -same lithology as overlying unit -core is green red -hematite in rock dominates rock colour -mod. chl. alt.?, weak silic. -mod Fe-ox staining along frct's -minor (1/10cm) qz frct's, up to 5mm wide -most common core angle of frct's is 50 degrees -<2% py (diss and along frct's)

FROM	TO	COMMENTS
11.2	57.3	**CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** - light green rock with 65% 5mm-3cm dia. subangular clasts in a fine grained intrusive? matrix -clasts consist of latite (65% of clasts), feldspar porphyry (15% of clasts), syenite (10% of clasts) and green grey aphanitic volcanic? clasts (10% of clasts) -tr py (diss and along frct's) -only very minor islolated specs of cpy were found -strong chl. alt., weak silic. -minor hem. in rock -mod Fe-ox staining along frct's -minor (1/10cm) qz frct's, up to 5mm wide -most common core angle of frct's is 50 degrees
18.8	19.5	- felspar porphyry clast with 3% py and tr cpy
26.0	31.0	-3% py
34.0	36.0	-3% py
39.0	57.3	-80 % clasts -some fragments are less than 1mm in dia.
51.5		-qz vein (core angle 25 degrees)
51.0	57.3	-2% light green clay along frct's and much Fe-ox staining
55.0	56.5	-core is blocky
57.3		-contact with latite breccia (core angle 30 degrees)
57.3	64.3	**LATITE BRECCIA:** -orange grey fine grained rock with 25% 0.5-2mm dia. feldspar crystals and 5-10% 0.5 mm dia mafic flecs (biotite and hornblende?) -mod. chl. andK alt. -weak silic. -minor hem. along frct's -mod (2/5cm) qz frct's, up to 5mm wide -most common core angle of frct's is 50 degrees -hydrothermal fracturing has separated rock into individual clasts (crackling)
61.6	62.2	-chloritic polylithic breccia interval
64.3		-contact with polylithic breccia (core angle 70 degrees)

FROM	TO	COMMENTS
64.3	84.0	**CHLORITICALLY ALTERED POLYLITHIC BRECCIA:** -green grey rock with 75% 5mm -5cm dia. subangular to subrounded clasts in fine grained intrusive? matrix -clasts consist of latite (70% of clasts), syenite (10% of clasts), feldspar porphyry (10% of clasts) and light grey aphanitic volcanics (10% of clasts) -mod. to strong chl. alt. destroys much of original texture -weak silic. and K alt. -minor hematite in rock -tr diss py -minor (1/10cm) qz frct's, up to 5mm wide -most common core angle of frct's is 65 degrees
70.5	71.0	-feldspar porphyry clast
75.0	78.0	- much hem. in matrix
78.8		- 5cm wide qz vn (core angle 15 degrees)
80.2	80.8	-feldspar porphyry clast
84.0	87.1	**CLAY CHLORITE ALTERED POLYLITHIC BRECCIA (FAULT):** -rock type described in overlying unit where 5-10% of the rock is altered to light green clay -core angle of fault zone is 35 degrees
87.1	99.4	**K ALTERED LATITE BRECCIA:** -orange grey rock with 85% 5mm-5cm dia. subrounded clasts in a fine grained intrusive? matrix -clasts consist mainly of latite with only 5% of the clasts consisting of syenite, feldspar porphyry and andesite -mod K alt. alters part of the original rock texture -minor chl. alt. and silic. -minor hem. in rock -minor (1/20cm) qz frct's, up to 5mm wide -most common core angle of frct's is 40 degrees

FROM	TO	COMMENTS
99.4	108.8	**SILICEOUS CHLORITICALLY ALTERED LATITE BRECCIA:** pale green fine grained rock with 25% 05.-2mm dia. feldspar crystals and 5% 0.5mm dia. mafic flecs (biotite and hornblende?) -5% 3mm -3cm dia. subangular syenite, feldspar porphyry and andesite clasts are found within the latite - hydrothermal alteration along frct's has separated latite into individual clasts (crackling) -mod. to strong chl. alt. and silic. has destroyed much of the original texture of the rock -weak K alt. -minor (1/10cm) qz frct's, up to 5mm wide -most common core angle of frct's is 30 degrees -2% py (diss and along frct's)
108.8		- EOH

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To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY cc: TOR BRULAND

Page Number :1-A
Total Pages :3
Certificate Date: 25-JUN-92
Invoice No. :I9216245
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216245

SAMPLE	PREP CODE		Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
524101	208	274	105	0.4	0.98	< 2	120	< 0.5	10	2.34	< 0.5	11	68	2280	5.30	< 10	2	0.21	< 10	0.88	610
524102	205	274	115	0.2	0.67	12	240	< 0.5	< 2	3.76	< 0.5	8	42	1660	3.68	< 10	< 1	0.22	< 10	0.83	740
524103	205	274	105	0.6	0.89	232	150	< 0.5	2	2.92	< 0.5	9	41	1670	4.08	< 10	8	0.25	< 10	0.99	645
524104	205	274	145	0.6	1.24	10	340	< 0.5	4	2.90	< 0.5	10	46	2590	4.40	10	< 1	0.18	< 10	0.92	630
524105	205	274	75	0.2	0.62	2	230	< 0.5	< 2	2.35	< 0.5	11	43	1405	4.96	< 10	< 1	0.20	< 10	0.88	610
524106	205	274	200	0.8	1.32	16	210	< 0.5	16	2.55	< 0.5	19	54	5520	6.64	< 10	< 1	0.30	< 10	1.84	740
524107	205	274	135	0.6	1.49	< 2	200	< 0.5	10	2.16	< 0.5	18	46	4280	7.04	< 10	< 1	0.20	< 10	1.85	660
524108	205	274	140	0.2	1.56	2	130	< 0.5	6	2.22	< 0.5	17	47	2480	6.22	10	< 1	0.17	< 10	1.61	580
524109	205	274	115	< 0.2	1.53	8	290	< 0.5	6	1.80	< 0.5	17	51	1865	6.04	10	< 1	0.21	< 10	1.80	645
524110	205	274	90	0.2	1.13	6	270	< 0.5	2	2.71	< 0.5	13	50	1210	4.43	< 10	< 1	0.14	< 10	1.31	710
524111	205	274	90	< 0.2	0.56	56	100	< 0.5	2	4.08	< 0.5	13	15	1050	4.17	< 10	5	0.29	< 10	1.83	985
524112	205	274	55	< 0.2	0.34	52	380	< 0.5	2	5.96	< 0.5	13	18	620	3.98	< 10	< 1	0.24	< 10	2.52	1065
524113	205	274	45	< 0.2	0.43	56	30	< 0.5	2	4.98	< 0.5	7	24	637	2.42	< 10	< 1	0.20	< 10	1.99	725
524114	205	274	90	0.2	0.44	310	60	< 0.5	4	8.87	< 0.5	12	21	1650	4.34	< 10	27	0.23	< 10	3.59	1135
524115	205	274	115	< 0.2	0.61	118	40	< 0.5	6	4.27	< 0.5	18	32	1690	4.61	< 10	2	0.16	< 10	1.86	795
524116	205	274	45	< 0.2	0.49	46	100	< 0.5	2	4.85	< 0.5	9	37	520	3.06	< 10	< 1	0.24	< 10	1.96	835
524117	205	274	15	< 0.2	0.69	6	30	< 0.5	2	4.10	< 0.5	6	17	148	3.00	< 10	< 1	0.15	< 10	1.55	895
524118	205	274	10	< 0.2	1.36	6	130	< 0.5	< 2	3.67	< 0.5	8	12	148	2.87	< 10	< 1	0.19	< 10	1.37	955
524119	205	274	5	< 0.2	0.77	12	20	< 0.5	< 2	6.64	< 0.5	14	9	62	2.61	< 10	< 1	0.24	< 10	2.56	1080
524120	205	274	10	< 0.2	0.91	12	20	< 0.5	4	5.27	< 0.5	16	17	122	4.03	< 10	< 1	0.54	< 10	2.37	1220
524121	205	274	10	< 0.2	0.88	8	40	< 0.5	2	9.43	< 0.5	17	10	144	3.16	< 10	< 1	0.31	< 10	3.79	1340
524122	205	274	< 5	< 0.2	2.68	8	110	< 0.5	< 2	2.66	< 0.5	8	11	41	2.92	< 10	< 1	0.32	< 10	0.87	710
524123	205	274	10	< 0.2	1.64	4	230	< 0.5	< 2	3.27	< 0.5	9	12	289	2.91	< 10	1	0.35	< 10	1.24	960
524124	205	274	5	< 0.2	2.16	10	90	< 0.5	< 2	3.11	< 0.5	10	12	34	2.92	< 10	< 1	0.23	< 10	1.03	810
524125	205	274	< 5	< 0.2	1.78	24	550	< 0.5	6	3.45	< 0.5	9	12	117	3.04	< 10	< 1	0.33	< 10	1.22	830
524126	205	274	< 5	< 0.2	1.28	78	940	< 0.5	< 2	2.74	< 0.5	8	10	99	2.82	< 10	< 1	0.14	10	0.96	770
524127	205	274	< 5	< 0.2	1.93	14	600	< 0.5	4	4.01	< 0.5	11	17	97	3.31	< 10	1	0.29	< 10	1.33	975
524128	205	274	5	< 0.2	2.37	34	150	< 0.5	< 2	3.12	< 0.5	10	18	109	3.24	10	< 1	0.27	< 10	1.14	870
524129	205	274	5	< 0.2	1.87	84	100	< 0.5	< 2	3.16	< 0.5	9	29	101	3.34	< 10	< 1	0.24	< 10	1.15	910
524130	205	274	< 5	< 0.2	1.47	40	700	< 0.5	2	3.02	< 0.5	7	15	17	2.78	10	< 1	0.21	< 10	1.11	865
524131	205	274	5	< 0.2	1.04	32	1060	< 0.5	2	3.65	< 0.5	10	15	151	3.06	< 10	1	0.11	< 10	1.35	855
524132	205	274	5	< 0.2	1.15	18	1520	< 0.5	< 2	3.60	< 0.5	9	19	93	2.84	< 10	< 1	0.31	< 10	1.23	970
524133	205	274	5	< 0.2	0.78	26	60	< 0.5	< 2	3.63	< 0.5	10	20	83	3.35	< 10	< 1	0.13	< 10	1.31	1045
524134	205	274	< 5	< 0.2	0.77	32	40	< 0.5	< 2	3.72	< 0.5	10	15	162	3.72	< 10	< 1	0.27	10	1.49	1245
524135	205	274	10	< 0.2	0.59	18	50	< 0.5	< 2	8.95	< 0.5	12	12	117	3.18	< 10	1	0.19	< 10	3.53	1450
524136	205	274	10	< 0.2	0.56	22	30	< 0.5	< 2	6.32	< 0.5	10	16	227	3.43	< 10	< 1	0.13	< 10	2.42	1140
524137	205	274	< 5	< 0.2	0.97	32	20	< 0.5	< 2	2.57	< 0.5	8	8	120	2.76	< 10	1	0.19	< 10	0.66	490
524138	205	274	5	< 0.2	3.51	38	280	< 0.5	2	4.29	< 0.5	16	19	169	4.15	< 10	< 1	0.30	< 10	1.38	895
524139	205	274	10	< 0.2	3.72	8	160	< 0.5	< 2	4.80	< 0.5	19	17	173	4.69	< 10	2	0.51	< 10	1.69	995
524140	205	274	< 5	< 0.2	3.10	14	200	< 0.5	< 2	8.31	< 0.5	18	19	249	4.29	< 10	< 1	0.58	< 10	2.51	1165

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To: TECK EXPLORATIONS LTD.

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V2C 1Z6

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SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524101	205	274	2	0.06	11	910	6	< 2	7	51	0.10	< 10	< 10	217	< 10	28
524102	205	274	1	0.04	9	930	4	4	7	62	0.04	< 10	< 10	135	< 10	28
524103	205	274	1	0.04	8	1020	4	24	7	66	0.05	< 10	< 10	144	< 10	38
524104	205	274	1	0.05	10	840	10	4	6	88	0.11	< 10	< 10	178	< 10	30
524105	205	274	1	0.04	9	1050	8	4	8	130	0.02	< 10	< 10	157	< 10	28
524106	205	274	1	0.06	16	1070	28	18	8	131	0.15	< 10	< 10	225	< 10	40
524107	205	274	2	0.06	17	1090	8	2	6	128	0.16	< 10	< 10	245	< 10	40
524108	205	274	1	0.05	13	1250	4	6	7	190	0.13	< 10	< 10	234	< 10	34
524109	205	274	2	0.05	15	1110	< 2	4	8	174	0.13	< 10	< 10	227	< 10	36
524110	205	274	2	0.05	10	980	6	4	9	151	0.08	< 10	< 10	166	< 10	30
524111	205	274	2	0.04	5	1450	< 2	18	11	139	< 0.01	< 10	< 10	109	< 10	34
524112	205	274	< 1	0.02	8	1040	2	4	8	140	< 0.01	< 10	< 10	64	< 10	38
524113	205	274	< 1	0.05	7	590	2	6	7	124	< 0.01	< 10	< 10	67	< 10	26
524114	205	274	9	0.02	7	650	4	92	6	210	< 0.01	< 10	< 10	78	< 10	60
524115	205	274	< 1	0.05	16	1200	2	6	9	170	< 0.01	< 10	< 10	143	< 10	34
524116	205	274	3	0.04	8	850	6	4	10	136	< 0.01	< 10	< 10	94	< 10	28
524117	205	274	< 1	0.04	4	1290	2	4	11	253	0.01	< 10	< 10	105	< 10	32
524118	205	274	< 1	0.29	3	1560	2	2	11	321	0.01	< 10	< 10	110	< 10	56
524119	205	274	< 1	0.03	8	1290	4	2	8	241	0.01	< 10	< 10	99	< 10	34
524120	205	274	< 1	0.02	5	1560	8	8	17	175	0.01	< 10	< 10	106	< 10	60
524121	205	274	< 1	0.02	11	1180	6	4	9	300	< 0.01	< 10	< 10	109	10	44
524122	205	274	< 1	0.99	1	1560	4	< 2	3	648	0.12	< 10	< 10	131	< 10	34
524123	205	274	< 1	0.35	3	1620	4	< 2	7	1015	0.07	< 10	< 10	126	< 10	40
524124	205	274	< 1	0.43	3	1540	4	2	5	323	0.07	< 10	< 10	127	< 10	40
524125	205	274	< 1	0.36	3	1790	8	2	8	362	0.04	< 10	< 10	129	< 10	36
524126	205	274	< 1	0.07	2	1400	8	2	8	153	0.02	< 10	< 10	112	< 10	52
524127	205	274	< 1	0.05	3	1530	6	6	8	165	0.05	< 10	< 10	135	< 10	54
524128	205	274	< 1	0.22	3	1510	12	4	6	973	0.11	< 10	< 10	157	< 10	50
524129	205	274	< 1	0.10	3	1180	2	4	7	429	0.09	< 10	< 10	170	< 10	46
524130	205	274	< 1	0.07	3	1010	6	2	5	737	0.05	< 10	< 10	146	< 10	38
524131	205	274	< 1	0.04	5	1560	10	4	10	279	0.01	< 10	< 10	131	< 10	44
524132	205	274	< 1	0.07	3	1190	4	4	7	293	0.03	< 10	< 10	108	< 10	42
524133	205	274	< 1	0.06	4	1300	8	4	10	214	0.01	< 10	< 10	126	< 10	52
524134	205	274	< 1	0.05	4	1490	4	2	9	197	< 0.01	< 10	< 10	118	< 10	60
524135	205	274	< 1	0.03	4	1290	2	4	8	249	0.01	< 10	< 10	126	10	56
524136	205	274	< 1	0.03	1	1600	2	4	14	225	0.04	< 10	< 10	262	< 10	44
524137	205	274	< 1	0.17	2	1360	2	4	8	278	0.01	< 10	< 10	126	< 10	40
524138	205	274	< 1	1.75	4	1960	< 2	2	8	603	0.12	< 10	< 10	217	< 10	56
524139	205	274	< 1	1.71	5	1870	8	4	11	459	0.16	< 10	< 10	291	< 10	62
524140	205	274	< 1	1.16	6	1530	10	2	14	1065	0.13	< 10	< 10	350	10	60

CERTIFICATION: Thai D'Ma

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SAMPLE	PREP CODE		Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
524141	205	274	5	< 0.2	2.74	6	130	< 0.5	< 2	6.33	< 0.5	16	20	142	4.52	< 10	1	0.55	< 10	1.84	1035
524142	205	274	< 5	< 0.2	2.70	< 2	200	< 0.5	2	5.79	< 0.5	17	19	191	3.78	< 10	< 1	0.44	< 10	1.93	1010
524143	205	274	5	< 0.2	1.31	< 2	30	< 0.5	2	2.84	< 0.5	13	8	61	3.93	< 10	< 1	0.10	< 10	1.23	905
524144	205	274	< 5	< 0.2	1.06	< 2	240	< 0.5	< 2	4.05	< 0.5	14	38	29	3.97	< 10	< 1	0.16	< 10	1.73	955
524145	205	274	< 5	< 0.2	1.32	2	40	< 0.5	2	4.26	< 0.5	15	16	42	4.19	< 10	< 1	0.07	< 10	1.83	950
524146	205	274	5	< 0.2	1.46	6	80	< 0.5	4	3.99	< 0.5	17	14	40	4.67	< 10	< 1	0.09	< 10	2.01	920
524147	205	274	5	< 0.2	1.00	< 2	120	< 0.5	6	3.24	< 0.5	20	66	48	4.74	< 10	< 1	0.09	< 10	2.06	680
524148	205	274	10	< 0.2	0.79	< 2	390	< 0.5	4	5.69	< 0.5	16	26	54	4.53	< 10	< 1	0.19	< 10	2.15	1090
524149	205	274	10	< 0.2	0.56	14	50	< 0.5	< 2	7.80	< 0.5	16	26	109	3.74	< 10	< 1	0.15	< 10	2.90	1050
524150	205	274	< 5	< 0.2	1.20	6	30	< 0.5	< 2	3.88	< 0.5	17	50	143	5.06	10	< 1	0.12	< 10	1.72	950
524151	205	274	< 5	< 0.2	0.75	6	30	< 0.5	2	8.59	< 0.5	19	34	76	5.34	< 10	1	0.09	< 10	3.78	1675
524152	205	274	5	< 0.2	0.82	24	50	< 0.5	2	8.88	< 0.5	39	49	52	7.59	10	< 1	0.06	< 10	3.55	1405
524153	205	274	5	< 0.2	1.04	< 2	90	< 0.5	2	6.90	< 0.5	20	70	60	8.96	10	< 1	0.08	< 10	1.99	1100
524154	205	274	< 5	< 0.2	0.93	< 2	70	< 0.5	6	1.86	< 0.5	30	53	51	8.84	< 10	< 1	0.07	< 10	1.58	730
524155	205	274	5	< 0.2	1.08	2	300	< 0.5	2	1.98	< 0.5	17	153	60	3.93	< 10	< 1	0.22	< 10	2.15	405
524156	205	274	5	< 0.2	1.08	2	320	< 0.5	< 2	2.37	< 0.5	10	8	124	2.83	< 10	< 1	0.52	< 10	1.03	1020
524157	205	274	15	< 0.2	1.30	8	80	< 0.5	4	3.89	< 0.5	19	42	57	5.19	< 10	< 1	0.29	< 10	2.04	850
524158	205	274	10	< 0.2	1.63	16	70	< 0.5	< 2	2.35	< 0.5	16	42	133	4.98	< 10	< 1	0.20	< 10	1.50	710
524159	205	274	< 5	< 0.2	1.79	10	120	< 0.5	< 2	2.53	< 0.5	21	112	49	5.49	< 10	< 1	0.40	< 10	1.95	725
524160	205	274	< 5	< 0.2	0.94	12	70	< 0.5	2	3.83	< 0.5	27	63	98	7.54	10	< 1	0.13	< 10	1.98	1600
524161	205	274	15	< 0.2	0.50	34	20	< 0.5	6	5.56	< 0.5	33	69	169	6.86	< 10	1	0.05	10	2.34	1550
524162	205	274	< 5	< 0.2	0.86	< 2	40	< 0.5	< 2	4.49	< 0.5	21	52	46	5.55	< 10	< 1	0.16	< 10	1.73	1060
524163	205	274	< 5	< 0.2	1.41	6	40	< 0.5	< 2	2.51	< 0.5	19	71	60	5.33	< 10	< 1	0.20	< 10	1.68	710
524164	205	274	< 5	< 0.2	1.37	2	60	< 0.5	< 2	2.37	< 0.5	13	25	42	3.77	< 10	< 1	0.17	< 10	1.13	640
524165	205	274	10	< 0.2	1.67	10	60	< 0.5	< 2	2.97	< 0.5	14	22	57	4.14	10	< 1	0.11	< 10	1.53	580
524166	205	274	5	< 0.2	1.02	< 2	80	< 0.5	2	3.80	< 0.5	12	35	104	3.40	< 10	< 1	0.07	< 10	1.37	670
524167	205	274	10	< 0.2	1.45	6	70	< 0.5	2	3.53	< 0.5	18	44	148	5.41	10	1	0.09	< 10	1.74	735
524168	205	274	20	< 0.2	1.22	38	110	< 0.5	2	4.05	< 0.5	21	35	169	4.62	< 10	< 1	0.08	< 10	1.52	605
524169	205	274	25	< 0.2	0.82	68	30	< 0.5	< 2	7.73	< 0.5	29	55	200	5.29	< 10	1	0.26	< 10	3.39	1130
524170	205	274	10	< 0.2	0.59	18	110	< 0.5	< 2	7.69	< 0.5	16	21	135	4.45	< 10	< 1	0.13	< 10	2.91	985
524171	205	274	15	< 0.2	0.69	< 2	170	< 0.5	2	5.07	< 0.5	12	30	62	4.08	< 10	< 1	0.17	10	1.82	825
524172	205	274	10	< 0.2	1.58	12	70	< 0.5	2	3.35	< 0.5	15	36	87	4.28	< 10	< 1	0.15	< 10	1.97	700
524173	205	274	5	< 0.2	1.47	2	420	< 0.5	6	4.29	< 0.5	19	46	70	5.16	< 10	< 1	0.33	< 10	1.87	955
524174	205	274	15	< 0.2	2.82	< 2	270	< 0.5	4	2.98	< 0.5	19	57	35	5.20	< 10	< 1	0.62	< 10	1.67	700
524175	205	274	35	< 0.2	1.01	< 2	330	< 0.5	< 2	3.29	< 0.5	8	23	433	2.73	< 10	< 1	0.13	< 10	0.97	365
524176	205	274	< 5	< 0.2	2.06	2	400	< 0.5	< 2	4.92	< 0.5	27	204	149	4.79	10	< 1	0.19	< 10	3.57	920
524177	205	274	25	< 0.2	1.17	< 2	180	< 0.5	2	6.21	< 0.5	23	198	232	4.82	< 10	< 1	0.23	< 10	2.29	715
524178	205	274	40	< 0.2	0.58	12	310	0.5	< 2	2.88	< 0.5	7	41	759	2.37	< 10	< 1	0.17	< 10	1.31	500
524179	205	274	50	< 0.2	0.78	8	280	< 0.5	< 2	1.86	< 0.5	8	36	587	2.36	< 10	< 1	0.11	< 10	1.41	345
524180	205	274	25	< 0.2	0.71	< 2	380	< 0.5	2	2.23	< 0.5	7	37	437	2.44	< 10	< 1	0.09	< 10	1.25	330

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :2-B
Total Pages :3
Certificate Date: 25-JUN-92
Invoice No. :I9216245
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216245

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524141	205 274	< 1	0.98	5	1770	4	4	13	588	0.15	< 10	< 10	269	< 10	62
524142	205 274	< 1	0.98	5	1790	< 2	4	12	882	0.12	< 10	< 10	195	< 10	58
524143	205 274	2	0.06	3	1110	8	2	5	72	0.04	< 10	< 10	137	< 10	54
524144	205 274	< 1	0.05	8	900	6	6	11	133	0.09	< 10	< 10	142	< 10	46
524145	205 274	< 1	0.05	8	1170	6	2	9	150	0.08	< 10	< 10	145	< 10	48
524146	205 274	< 1	0.05	7	1130	2	2	10	173	0.13	< 10	< 10	171	< 10	38
524147	205 274	< 1	0.04	23	440	2	4	11	262	0.17	< 10	< 10	164	< 10	30
524148	205 274	< 1	0.03	11	1130	4	4	17	240	0.01	< 10	< 10	141	< 10	46
524149	205 274	< 1	0.04	10	830	8	6	11	264	< 0.01	< 10	< 10	117	< 10	40
524150	205 274	2	0.07	13	1130	< 2	2	19	240	0.15	< 10	< 10	216	< 10	50
524151	205 274	< 1	0.06	10	850	6	6	23	386	0.05	< 10	< 10	148	< 10	50
524152	205 274	< 1	0.03	37	480	4	4	46	471	0.03	< 10	< 10	239	< 10	42
524153	205 274	< 1	0.02	22	510	2	6	51	530	0.09	< 10	< 10	314	< 10	42
524154	205 274	< 1	0.04	27	320	< 2	4	9	120	0.23	< 10	< 10	279	< 10	34
524155	205 274	< 1	0.04	28	750	< 2	4	6	249	0.13	< 10	< 10	119	< 10	22
524156	205 274	3	0.08	6	400	4	4	4	101	0.01	< 10	< 10	65	< 10	52
524157	205 274	< 1	0.05	14	1690	< 2	6	11	178	0.09	< 10	< 10	197	< 10	34
524158	205 274	1	0.07	15	1600	< 2	2	5	144	0.12	< 10	< 10	228	< 10	28
524159	205 274	< 1	0.10	24	1220	< 2	< 2	5	120	0.14	< 10	< 10	256	< 10	32
524160	205 274	1	0.04	18	1860	4	4	18	217	0.07	< 10	< 10	236	< 10	62
524161	205 274	4	0.03	20	2050	6	6	35	281	0.01	< 10	< 10	216	< 10	58
524162	205 274	< 1	0.07	14	1680	4	2	20	223	0.06	< 10	< 10	192	< 10	40
524163	205 274	< 1	0.11	16	1990	< 2	4	5	129	0.08	< 10	< 10	208	< 10	30
524164	205 274	< 1	0.14	9	1550	< 2	2	4	106	0.06	< 10	< 10	158	< 10	28
524165	205 274	1	0.09	11	1740	< 2	< 2	8	107	0.07	< 10	< 10	169	< 10	22
524166	205 274	6	0.06	12	840	< 2	< 2	9	114	0.06	< 10	< 10	102	< 10	30
524167	205 274	3	0.08	14	1560	2	4	10	121	0.10	< 10	< 10	209	< 10	36
524168	205 274	20	0.09	12	1740	4	2	12	119	0.06	< 10	< 10	144	< 10	26
524169	205 274	< 1	0.03	42	1570	6	6	27	221	0.04	< 10	< 10	174	< 10	40
524170	205 274	2	0.04	9	1080	2	6	14	199	< 0.01	< 10	< 10	124	< 10	42
524171	205 274	2	0.05	10	2230	< 2	2	19	203	0.02	< 10	< 10	148	< 10	32
524172	205 274	2	0.08	12	1710	< 2	2	8	139	0.09	< 10	< 10	171	< 10	32
524173	205 274	< 1	0.33	18	1880	< 2	4	16	234	0.08	< 10	< 10	222	< 10	40
524174	205 274	< 1	0.92	18	1790	< 2	2	7	233	0.19	< 10	< 10	246	< 10	36
524175	205 274	9	0.06	13	1330	2	2	9	83	0.01	< 10	< 10	136	< 10	18
524176	205 274	< 1	0.03	149	940	< 2	2	22	195	0.04	< 10	< 10	141	20	48
524177	205 274	1	0.02	107	820	< 2	2	25	192	0.02	< 10	< 10	128	20	44
524178	205 274	< 1	0.02	26	800	< 2	4	10	96	< 0.01	< 10	< 10	140	< 10	18
524179	205 274	1	0.04	16	720	2	2	8	73	0.01	< 10	< 10	169	< 10	16
524180	205 274	< 1	0.05	18	720	< 2	2	7	78	< 0.01	< 10	< 10	176	< 10	18

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brookabank Ave., North Vancouver
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PHONE: 604-984-0221

To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :3-A
Total Pages :3
Certificate Date: 25-JUN-92
Invoice No. :I9216245
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216245

SAMPLE	PREP CODE		Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
524181	205	274	40	< 0.2	0.73	< 2	300	< 0.5	< 2	2.29	< 0.5	7	29	518	2.79	< 10	< 1	0.13	< 10	1.61	355

CERTIFICATION: Jhai D'Ma

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To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z6

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Certificate Date: 25-JUN-92
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P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216245

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524181	205	274	3	0.05	16	1180	2	2	11	92	0.01	< 10	< 10	168	< 10	16

CERTIFICATION: Thai D'Ma

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350 - 272 VICTORIA ST.
KAMLOOPS, BC
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Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :1-A
Total Pages :1
Certificate Date: 25-JUN-92
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CERTIFICATE OF ANALYSIS A9216246

SAMPLE	PREP CODE		Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
524182	205	274	40	< 0.2	0.50	48	200	< 0.5	< 2	2.06	< 0.5	7	53	514	2.50	< 10	< 1	0.27	< 10	1.64	320
524183	205	274	45	< 0.2	0.73	78	230	< 0.5	< 2	3.90	< 0.5	8	38	558	3.19	< 10	1	0.38	< 10	1.76	460
524184	205	274	40	< 0.2	0.76	116	230	< 0.5	< 2	3.07	< 0.5	9	51	845	2.74	< 10	7	0.37	< 10	1.47	340
524185	205	274	30	< 0.2	0.97	130	290	< 0.5	< 2	3.00	< 0.5	8	51	713	2.52	< 10	2	0.44	< 10	1.37	285
524186	205	274	50	< 0.2	0.55	28	130	< 0.5	2	2.52	< 0.5	13	38	510	2.23	< 10	< 1	0.11	< 10	1.03	275
524187	205	274	20	< 0.2	0.86	4	240	< 0.5	< 2	2.48	< 0.5	14	46	495	2.35	< 10	< 1	0.17	< 10	1.08	300
524188	205	274	20	< 0.2	0.84	10	190	< 0.5	< 2	2.41	< 0.5	8	65	473	2.29	< 10	< 1	0.23	< 10	1.06	295
524189	205	274	35	< 0.2	0.70	56	110	< 0.5	< 2	2.83	< 0.5	7	50	669	2.64	< 10	2	0.26	< 10	1.38	305
524190	205	274	45	< 0.2	0.63	30	120	< 0.5	< 2	2.88	< 0.5	13	46	907	2.45	< 10	< 1	0.19	< 10	1.35	315
524191	205	274	35	< 0.2	0.80	8	160	< 0.5	< 2	2.76	< 0.5	14	46	657	2.36	< 10	< 1	0.17	< 10	1.17	295
524192	205	274	35	< 0.2	0.70	50	140	< 0.5	< 2	2.47	< 0.5	8	32	392	2.36	< 10	1	0.28	< 10	1.42	300
524193	205	274	80	< 0.2	0.55	50	290	< 0.5	< 2	2.13	< 0.5	7	62	888	2.04	< 10	< 1	0.32	< 10	1.10	245
524194	205	274	40	< 0.2	0.60	94	250	< 0.5	< 2	3.01	< 0.5	5	53	464	1.98	< 10	< 1	0.35	< 10	1.39	320
524195	205	274	90	< 0.2	0.75	186	230	< 0.5	< 2	2.21	< 0.5	9	44	1135	2.33	< 10	< 1	0.38	< 10	1.39	285
524196	205	274	50	< 0.2	0.57	56	390	< 0.5	< 2	2.34	< 0.5	9	49	783	2.24	< 10	< 1	0.31	< 10	1.51	285
524197	205	274	40	< 0.2	0.41	36	280	< 0.5	< 2	2.12	< 0.5	7	67	416	1.82	< 10	< 1	0.23	< 10	1.17	280
524198	205	274	70	< 0.2	0.55	44	250	< 0.5	< 2	2.48	< 0.5	6	64	589	1.85	< 10	< 1	0.29	< 10	1.32	275
524199	205	274	70	< 0.2	0.66	2	160	< 0.5	< 2	2.08	< 0.5	6	57	619	1.71	< 10	1	0.17	< 10	1.40	260
524200	205	274	70	< 0.2	0.52	24	220	< 0.5	< 2	2.81	< 0.5	5	72	470	1.89	< 10	< 1	0.23	< 10	1.37	330
524201	205	274	40	< 0.2	0.54	32	380	< 0.5	2	2.51	< 0.5	6	59	592	2.02	< 10	< 1	0.25	< 10	1.26	280
524202	205	274	35	< 0.2	0.85	2	230	< 0.5	< 2	2.77	< 0.5	7	46	593	1.95	< 10	< 1	0.18	< 10	1.51	365
524203	205	274	55	< 0.2	1.05	< 2	140	< 0.5	4	2.77	< 0.5	8	51	998	2.13	< 10	< 1	0.16	< 10	1.30	335
524204	205	274	45	< 0.2	1.04	2	60	< 0.5	< 2	2.98	< 0.5	8	60	772	1.81	< 10	< 1	0.17	< 10	1.07	365
524205	205	274	40	< 0.2	1.14	36	170	< 0.5	< 2	3.97	< 0.5	10	55	643	2.69	< 10	< 1	0.35	< 10	1.54	475
524206	205	274	180	0.2	0.88	10	120	< 0.5	< 2	2.87	< 0.5	6	86	882	1.84	< 10	< 1	0.22	< 10	1.00	340
524207	205	274	35	< 0.2	1.02	< 2	200	< 0.5	< 2	3.10	< 0.5	6	58	419	1.82	< 10	< 1	0.24	< 10	0.92	345

CERTIFICATION: Johai D Ma

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To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :1-B
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Certificate Date: 25-JUN-92
Invoice No. :I9216246
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216246

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524182	205 274	24	0.05	8	1420	< 2	8	10	108	< 0.01	< 10	< 10	88	10	18
524183	205 274	1	0.05	8	1180	4	12	12	239	< 0.01	< 10	< 10	112	10	20
524184	205 274	6	0.08	9	1430	2	40	12	147	< 0.01	< 10	< 10	116	10	16
524185	205 274	9	0.07	7	1390	6	20	11	116	< 0.01	< 10	< 10	123	10	14
524186	205 274	7	0.04	8	1490	4	4	11	137	< 0.01	< 10	< 10	154	10	14
524187	205 274	6	0.07	7	1380	< 2	2	9	144	0.05	< 10	< 10	173	10	18
524188	205 274	6	0.10	8	1400	4	2	8	131	0.03	< 10	< 10	166	10	16
524189	205 274	3	0.08	8	1340	6	10	11	151	< 0.01	< 10	< 10	143	10	14
524190	205 274	23	0.08	9	1340	4	4	11	137	0.01	< 10	< 10	148	10	14
524191	205 274	11	0.08	10	1400	< 2	2	10	120	0.01	< 10	< 10	171	10	16
524192	205 274	5	0.08	7	1370	< 2	6	11	169	< 0.01	< 10	< 10	130	10	18
524193	205 274	2	0.07	7	1020	< 2	2	10	141	< 0.01	< 10	< 10	104	10	12
524194	205 274	1	0.06	6	930	4	2	8	209	< 0.01	< 10	< 10	94	10	10
524195	205 274	10	0.06	6	1430	2	2	9	169	< 0.01	< 10	< 10	103	10	18
524196	205 274	4	0.06	7	1250	< 2	2	9	193	< 0.01	< 10	< 10	112	10	14
524197	205 274	< 1	0.07	8	800	< 2	2	7	155	< 0.01	< 10	< 10	97	10	10
524198	205 274	1	0.07	7	1090	2	4	9	152	< 0.01	< 10	< 10	92	10	10
524199	205 274	3	0.07	7	1280	4	< 2	9	113	< 0.01	< 10	< 10	117	< 10	12
524200	205 274	2	0.07	6	1200	6	4	9	136	< 0.01	< 10	< 10	95	10	14
524201	205 274	7	0.07	6	1290	< 2	2	10	199	< 0.01	< 10	< 10	93	10	14
524202	205 274	7	0.07	8	1330	< 2	< 2	10	153	0.02	< 10	< 10	125	10	16
524203	205 274	10	0.09	8	1170	4	2	8	120	0.02	< 10	< 10	140	10	18
524204	205 274	13	0.08	8	900	2	< 2	6	112	< 0.01	< 10	< 10	110	10	18
524205	205 274	10	0.06	8	1020	< 2	2	10	145	0.02	< 10	< 10	108	10	20
524206	205 274	6	0.06	6	780	2	2	5	146	< 0.01	< 10	< 10	78	10	18
524207	205 274	9	0.06	6	760	4	2	5	155	< 0.01	< 10	< 10	84	10	18

CERTIFICATION: Thai D'Ma

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To: TECK EXPLORATIONS LTD.

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KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number : 1-A
Total Pages : 1
Certificate Date: 25-JUN-92
Invoice No. : I9216342
P.O. Number :
Account : HPQ

CERTIFICATE OF ANALYSIS A9216342

SAMPLE	PREP CODE		Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
524208	205	274	25	< 0.2	1.01	4	410	< 0.5	< 2	2.66	< 0.5	7	73	396	1.84	< 10	< 1	0.22	< 10	1.12	295
524209	205	274	35	< 0.2	0.85	22	210	< 0.5	< 2	2.40	< 0.5	7	64	699	1.66	< 10	< 1	0.21	< 10	1.21	280
524210	205	274	< 5	< 0.2	1.31	2	390	< 0.5	< 2	3.12	< 0.5	8	54	21	2.80	< 10	< 1	0.39	< 10	1.17	915
524211	205	274	275	< 0.2	0.65	104	180	< 0.5	< 2	3.58	< 0.5	7	40	539	2.29	< 10	< 1	0.40	< 10	0.99	965
524212	205	274	5	< 0.2	0.96	20	170	< 0.5	< 2	6.37	< 0.5	11	27	109	3.27	< 10	< 1	0.55	< 10	2.44	1460
524213	205	274	< 5	< 0.2	1.37	14	470	< 0.5	< 2	2.84	< 0.5	11	23	51	4.38	< 10	< 1	0.27	< 10	1.40	1710
524214	205	274	5	< 0.2	1.09	32	230	< 0.5	< 2	4.35	< 0.5	10	31	159	3.22	< 10	< 1	0.57	< 10	1.80	1075
524215	205	274	10	< 0.2	1.02	26	80	< 0.5	< 2	5.22	< 0.5	9	36	159	3.11	< 10	< 1	0.48	< 10	2.06	990
524216	205	274	5	< 0.2	0.85	4	190	< 0.5	< 2	3.56	< 0.5	8	39	3	2.57	< 10	< 1	0.48	< 10	1.37	895
524217	205	274	10	< 0.2	0.66	8	390	< 0.5	< 2	3.04	< 0.5	7	57	81	2.69	< 10	< 1	0.30	< 10	1.38	790
524218	205	274	35	< 0.2	0.68	30	120	< 0.5	< 2	2.92	< 0.5	11	51	545	3.01	< 10	< 1	0.29	< 10	1.57	810
524219	205	274	20	< 0.2	0.67	18	330	< 0.5	< 2	3.35	< 0.5	9	39	166	3.27	< 10	< 1	0.42	< 10	1.49	790
524220	205	274	5	< 0.2	0.89	20	210	< 0.5	< 2	3.19	< 0.5	7	28	17	2.96	< 10	< 1	0.51	< 10	1.18	885
524221	205	274	60	< 0.2	0.92	50	170	< 0.5	< 2	3.58	< 0.5	8	60	1175	3.80	< 10	4	0.37	< 10	1.44	685
524222	205	274	120	0.2	0.78	110	50	< 0.5	4	3.31	< 0.5	11	61	2770	4.47	< 10	6	0.24	< 10	1.50	720
524223	205	274	230	0.4	1.12	30	50	< 0.5	2	2.07	< 0.5	18	86	5240	5.22	< 10	< 1	0.24	< 10	1.16	630
524224	205	274	105	< 0.2	0.94	8	180	< 0.5	< 2	2.44	< 0.5	9	66	1505	4.49	< 10	< 1	0.12	< 10	1.07	595
524225	205	274	170	0.4	1.15	12	160	< 0.5	< 2	2.89	< 0.5	10	70	4630	4.56	< 10	< 1	0.12	< 10	1.30	610

CERTIFICATION: Thai D Ma

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z6

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :1-B
Total Pages :1
Certificate Date: 25-JUN-92
Invoice No. :I9216342
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216342

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524208	205	274	10	0.07	6	830	2	2	5	170	< 0.01	< 10	< 10	92	10	18
524209	205	274	19	0.06	7	760	6	4	5	138	< 0.01	< 10	< 10	92	< 10	18
524210	205	274	< 1	0.06	9	720	4	4	5	72	0.02	< 10	< 10	67	10	36
524211	205	274	< 1	0.02	3	770	< 2	4	4	50	< 0.01	< 10	< 10	34	10	34
524212	205	274	< 1	0.04	5	880	2	2	6	128	< 0.01	< 10	< 10	55	20	38
524213	205	274	< 1	0.07	3	1070	6	< 2	7	66	< 0.01	< 10	< 10	95	20	66
524214	205	274	2	0.04	5	1180	4	10	6	97	< 0.01	< 10	< 10	63	10	28
524215	205	274	2	0.04	3	920	< 2	10	6	118	< 0.01	< 10	< 10	77	20	34
524216	205	274	< 1	0.05	7	710	10	2	4	104	0.01	< 10	< 10	58	10	34
524217	205	274	2	0.07	10	730	2	2	9	102	0.01	< 10	< 10	108	10	24
524218	205	274	4	0.07	9	940	< 2	6	8	94	0.01	< 10	< 10	128	10	30
524219	205	274	3	0.05	7	1040	2	4	8	103	< 0.01	< 10	< 10	114	10	24
524220	205	274	7	0.05	3	1080	6	2	5	88	< 0.01	< 10	< 10	81	10	28
524221	205	274	2	0.04	8	930	4	30	10	134	< 0.01	< 10	< 10	124	10	32
524222	205	274	2	0.04	12	930	4	52	9	145	< 0.01	< 10	< 10	135	20	40
524223	205	274	1	0.05	16	920	< 2	6	8	96	0.08	< 10	< 10	161	10	28
524224	205	274	2	0.06	11	840	< 2	6	7	186	0.09	< 10	< 10	166	10	26
524225	205	274	1	0.05	12	820	4	4	7	132	0.09	< 10	< 10	148	20	28

CERTIFICATION: Thai D'Ma

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To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number : 1-A
Total Pages : 1
Certificate Date: 28-JUN-92
Invoice No. : I9216417
P.O. Number :
Account : HPQ

CERTIFICATE OF ANALYSIS A9216417

SAMPLE	PREP CODE		Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
524226	205	274	280	< 0.2	0.65	700	320	< 0.5	< 2	3.22	0.5	14	55	5240	4.77	< 10	4	0.17	< 10	1.35	640
524227	205	274	335	< 0.2	1.01	20	310	< 0.5	< 2	2.44	< 0.5	15	79	5410	3.97	10	< 1	0.19	< 10	1.17	655
524228	205	274	250	< 0.2	0.59	58	160	< 0.5	< 2	2.71	< 0.5	16	68	3210	3.41	< 10	1	0.09	< 10	1.10	640
524229	205	274	80	< 0.2	0.59	78	160	< 0.5	< 2	3.14	< 0.5	12	60	1980	3.55	< 10	8	0.24	< 10	1.08	705
524230	205	274	40	< 0.2	0.56	50	50	< 0.5	< 2	4.99	< 0.5	15	35	655	4.06	< 10	< 1	0.28	< 10	1.95	1115
524231	205	274	15	< 0.2	1.71	26	110	0.5	< 2	2.65	< 0.5	12	25	151	3.40	< 10	1	0.14	< 10	0.92	775
524232	205	274	5	< 0.2	2.37	6	600	< 0.5	< 2	4.15	< 0.5	14	26	102	2.99	< 10	1	0.10	< 10	1.07	920
524233	205	274	10	< 0.2	1.16	36	340	< 0.5	2	2.83	< 0.5	10	22	137	2.60	< 10	< 1	0.28	< 10	0.68	730
524234	205	274	5	< 0.2	1.02	20	150	< 0.5	< 2	6.41	< 0.5	12	18	96	2.81	< 10	< 1	0.16	< 10	2.01	1015
524235	205	274	< 5	< 0.2	0.97	32	350	0.5	< 2	6.19	< 0.5	11	19	89	2.71	< 10	< 1	0.14	< 10	2.06	1035
524236	205	274	< 5	< 0.2	1.46	46	220	< 0.5	< 2	3.87	< 0.5	13	24	91	2.88	< 10	1	0.28	< 10	1.25	840
524237	205	274	< 5	< 0.2	1.23	14	60	< 0.5	< 2	3.09	< 0.5	10	15	104	3.26	< 10	< 1	0.16	< 10	0.99	870
524238	205	274	< 5	< 0.2	2.27	42	430	< 0.5	< 2	4.66	< 0.5	13	20	98	3.27	< 10	1	0.32	< 10	1.34	1100
524239	205	274	< 5	< 0.2	1.74	50	20	< 0.5	< 2	2.63	< 0.5	10	21	134	2.61	< 10	< 1	0.13	< 10	0.86	780
524240	205	274	< 5	0.4	2.46	28	60	< 0.5	< 2	2.86	< 0.5	12	17	97	3.02	< 10	1	0.47	< 10	0.85	790
524241	205	274	< 5	< 0.2	2.27	44	150	< 0.5	< 2	4.12	< 0.5	12	13	96	2.94	< 10	1	0.20	< 10	1.37	1030
524242	205	274	< 5	0.2	2.67	86	210	< 0.5	< 2	3.13	< 0.5	13	14	42	3.22	< 10	1	0.34	< 10	0.93	850
524243	205	274	< 5	0.6	0.51	26	70	< 0.5	< 2	8.49	0.5	16	18	70	3.82	< 10	< 1	0.23	< 10	2.95	1330
524244	205	274	< 5	0.2	1.06	30	120	< 0.5	< 2	4.75	< 0.5	16	23	112	3.98	< 10	< 1	0.53	< 10	1.82	1090
524245	205	274	5	< 0.2	0.78	30	610	< 0.5	< 2	5.52	< 0.5	25	21	102	4.98	< 10	< 1	0.33	< 10	2.82	1495
524246	205	274	< 5	0.2	1.40	12	720	< 0.5	< 2	6.72	< 0.5	18	20	155	3.95	< 10	< 1	0.42	< 10	1.30	1095

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

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To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :1-B
Total Pages :1
Certificate Date: 28-JUN-92
Invoice No. :I9216417
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216417

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524226	205 274	32	0.04	11	1020	4	44	9	125	0.02	< 10	< 10	132	20	46
524227	205 274	4	0.08	13	980	< 2	2	6	126	0.09	< 10	< 10	154	10	48
524228	205 274	3	0.04	12	910	2	4	8	135	0.04	< 10	< 10	120	10	36
524229	205 274	1	0.07	10	910	< 2	6	10	145	0.01	< 10	< 10	112	< 10	32
524230	205 274	< 1	0.04	6	1580	12	4	9	173	< 0.01	< 10	< 10	121	< 10	78
524231	205 274	< 1	0.06	4	1600	6	2	9	303	0.02	< 10	< 10	146	< 10	68
524232	205 274	< 1	0.05	3	1420	2	< 2	7	263	0.07	< 10	< 10	122	< 10	64
524233	205 274	1	0.06	2	1520	12	< 2	6	186	0.08	< 10	< 10	109	< 10	52
524234	205 274	< 1	0.04	4	1410	6	2	5	194	0.04	< 10	< 10	88	< 10	50
524235	205 274	< 1	0.05	3	1330	12	2	6	201	0.03	< 10	< 10	91	< 10	52
524236	205 274	< 1	0.08	5	1800	8	2	7	170	0.04	< 10	< 10	104	< 10	48
524237	205 274	< 1	0.04	1	1770	6	2	8	165	0.05	< 10	< 10	130	< 10	54
524238	205 274	< 1	0.31	3	1380	6	4	8	338	0.07	< 10	< 10	127	< 10	60
524239	205 274	< 1	0.06	2	1450	10	2	5	180	0.11	< 10	< 10	125	< 10	64
524240	205 274	1	0.71	3	1720	6	2	5	298	0.15	< 10	< 10	144	< 10	58
524241	205 274	< 1	1.04	2	1680	2	4	7	157	0.05	< 10	< 10	134	< 10	50
524242	205 274	< 1	1.07	3	1910	< 2	4	6	471	0.08	< 10	< 10	157	< 10	50
524243	205 274	< 1	0.02	5	1920	6	6	9	194	< 0.01	< 10	< 10	102	< 10	82
524244	205 274	< 1	0.09	4	1510	< 2	4	9	115	0.04	< 10	< 10	107	< 10	64
524245	205 274	< 1	0.02	9	1790	6	6	13	159	0.01	< 10	< 10	89	< 10	106
524246	205 274	< 1	0.06	5	1870	2	2	10	834	0.08	< 10	< 10	210	< 10	60

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To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
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Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

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Invoice No. :I9216528
P.O. Number :
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CERTIFICATE OF ANALYSIS A9216528

SAMPLE	PREP CODE	Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
524247 BIG	205 274	30	< 0.2	0.93	66	890	< 0.5	< 2	4.14	< 0.5	13	48	293	3.72	10	3	0.40	< 10	1.59	785
524247 SMALL	205 274	10	< 0.2	0.94	54	670	< 0.5	< 2	4.73	< 0.5	14	31	294	4.16	10	3	0.47	< 10	1.88	860
524248	205 274	35	< 0.2	1.15	238	900	< 0.5	< 2	3.54	< 0.5	21	61	2070	5.54	10	1	0.53	< 10	2.51	920
524249	205 274	10	< 0.2	1.42	10	860	< 0.5	< 2	4.99	< 0.5	12	17	163	3.62	10	< 1	0.78	< 10	1.29	1020
524250	205 274	5	< 0.2	1.80	16	370	< 0.5	< 2	6.36	< 0.5	9	12	113	3.02	10	< 1	0.96	< 10	0.82	1170
524251	205 274	5	< 0.2	1.41	6	560	< 0.5	< 2	4.12	< 0.5	11	18	93	3.30	10	< 1	0.70	< 10	1.40	1065
524252	205 274	< 5	< 0.2	1.01	6	920	< 0.5	< 2	3.59	< 0.5	9	21	102	3.06	10	< 1	0.50	< 10	1.48	845
524253	205 274	25	< 0.2	0.78	104	830	< 0.5	< 2	2.66	< 0.5	11	24	578	3.41	10	< 1	0.41	< 10	2.13	840
524254	205 274	10	< 0.2	0.94	8	700	< 0.5	< 2	4.27	< 0.5	15	35	176	4.12	10	< 1	0.50	< 10	2.64	1100
524255	205 274	10	< 0.2	0.69	16	790	< 0.5	< 2	3.44	< 0.5	14	18	141	3.93	10	< 1	0.39	< 10	2.12	1060
524256	205 274	40	< 0.2	0.76	8	820	< 0.5	< 2	3.49	< 0.5	12	24	588	3.46	< 10	1	0.43	< 10	2.04	805
524257	205 274	< 5	< 0.2	0.53	22	970	< 0.5	< 2	4.61	< 0.5	12	19	114	3.68	< 10	1	0.30	< 10	1.95	930
524258	205 274	5	< 0.2	0.62	6	730	< 0.5	< 2	3.49	< 0.5	13	19	142	3.83	< 10	< 1	0.41	< 10	1.93	920
524259	205 274	< 5	< 0.2	0.60	22	660	< 0.5	< 2	3.76	< 0.5	11	15	114	3.34	< 10	< 1	0.34	< 10	1.38	865
524260	205 274	< 5	< 0.2	0.86	14	520	< 0.5	< 2	4.81	< 0.5	12	20	106	3.62	< 10	< 1	0.47	< 10	1.68	1025
524261	205 274	< 5	< 0.2	0.95	16	1040	< 0.5	< 2	4.23	< 0.5	13	27	85	3.70	10	< 1	0.43	< 10	1.88	950
524262	205 274	< 5	< 0.2	1.32	8	280	< 0.5	< 2	4.26	< 0.5	12	31	111	3.64	10	< 1	0.58	< 10	1.54	910
524263	205 274	5	< 0.2	1.09	32	330	< 0.5	< 2	3.86	< 0.5	13	19	125	3.53	10	< 1	0.62	< 10	1.36	915
524264	205 274	< 5	< 0.2	1.13	6	670	< 0.5	< 2	5.53	< 0.5	10	20	86	2.95	< 10	< 1	0.67	< 10	2.12	1195
524265	205 274	< 5	< 0.2	1.12	14	90	< 0.5	2	5.85	< 0.5	10	21	134	3.43	10	< 1	0.69	< 10	2.19	1380
524266	205 274	< 5	< 0.2	1.42	8	240	< 0.5	< 2	4.38	< 0.5	10	17	93	3.21	10	< 1	0.66	< 10	0.90	1115
524267	205 274	5	< 0.2	1.95	4	340	< 0.5	2	4.57	< 0.5	14	26	132	3.85	10	1	0.63	< 10	1.52	1100
524268	205 274	< 5	< 0.2	1.56	10	570	< 0.5	2	5.86	< 0.5	15	44	116	4.22	10	1	0.64	< 10	2.00	1295
524269	205 274	5	< 0.2	1.43	6	900	< 0.5	< 2	4.69	< 0.5	13	21	120	3.46	10	1	0.70	< 10	1.38	1085
524270	205 274	10	< 0.2	1.10	10	500	< 0.5	< 2	8.52	< 0.5	9	16	110	2.92	< 10	< 1	0.70	< 10	0.95	1270
524271	205 274	5	< 0.2	0.84	18	1620	< 0.5	2	6.92	< 0.5	8	15	219	2.63	< 10	< 1	0.55	< 10	1.08	1350
524272	205 274	< 5	< 0.2	0.82	< 2	530	< 0.5	< 2	5.16	< 0.5	8	15	69	2.84	< 10	< 1	0.51	< 10	1.42	975
524273	205 274	< 5	< 0.2	0.78	6	500	< 0.5	4	5.04	< 0.5	8	6	81	2.59	< 10	< 1	0.47	< 10	1.39	988
524274	205 274	< 5	< 0.2	0.84	< 2	540	< 0.5	4	7.07	< 0.5	9	10	161	2.60	< 10	< 1	0.51	< 10	1.18	1110
524275	205 274	< 5	< 0.2	0.70	2	830	< 0.5	2	5.02	< 0.5	6	7	30	2.04	< 10	< 1	0.43	< 10	1.18	785
524276	205 274	5	< 0.2	1.67	26	90	< 0.5	< 2	2.73	< 0.5	8	26	121	3.18	20	< 1	0.15	< 10	1.05	865
524277	205 274	< 5	< 0.2	2.54	20	100	< 0.5	< 2	1.91	< 0.5	9	18	98	3.24	30	< 1	0.25	< 10	0.94	805
524278	205 274	< 5	0.2	2.96	22	120	< 0.5	2	4.27	< 0.5	12	25	119	3.64	30	1	0.14	< 10	1.36	910
524279	205 274	5	< 0.2	1.21	10	530	< 0.5	4	3.78	< 0.5	10	13	100	3.08	10	< 1	0.68	< 10	1.52	1015
524280	205 274	25	0.2	3.43	22	620	< 0.5	< 2	4.98	< 0.5	12	29	186	3.63	30	1	0.07	< 10	1.21	1060
524281	205 274	< 5	< 0.2	1.16	16	1580	< 0.5	4	3.66	< 0.5	9	11	109	2.86	10	< 1	0.51	< 10	1.27	1015
524282	205 274	5	< 0.2	0.89	46	260	< 0.5	< 2	4.95	< 0.5	9	14	131	2.98	< 10	1	0.45	< 10	2.02	830
524283	205 274	5	< 0.2	1.11	32	50	< 0.5	< 2	4.08	< 0.5	11	14	4	3.32	10	1	0.25	< 10	1.55	595
524284	205 274	10	< 0.2	1.42	48	140	< 0.5	4	2.46	< 0.5	8	21	44	2.84	20	2	0.23	< 10	1.24	575
524285	205 274	< 5	< 0.2	1.32	92	780	< 0.5	< 2	3.63	< 0.5	12	12	68	3.56	20	< 1	0.40	< 10	1.87	975

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Project : 1702
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CERTIFICATE OF ANALYSIS A9216528

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524247 BIG	205	274	2	0.05	7	1070	4	26	10	270	< 0.01	< 10	< 10	92	< 10	50
524247 SMALL	205	274	3	0.02	8	1190	6	24	12	314	< 0.01	< 10	< 10	98	< 10	52
524248	205	274	9	0.08	15	1260	< 2	4	17	196	0.01	< 10	< 10	149	< 10	46
524249	205	274	< 1	0.04	3	1460	2	2	10	261	0.02	< 10	< 10	116	< 10	46
524250	205	274	< 1	0.02	1	1640	6	4	7	312	0.03	< 10	< 10	106	< 10	44
524251	205	274	< 1	0.03	2	1300	6	4	9	240	< 0.01	< 10	< 10	128	< 10	50
524252	205	274	< 1	0.04	3	1120	< 2	4	8	245	< 0.01	< 10	< 10	102	< 10	42
524253	205	274	1	0.06	5	1190	< 2	2	11	201	< 0.01	< 10	< 10	109	< 10	44
524254	205	274	< 1	0.05	8	1290	4	4	13	252	0.01	< 10	< 10	125	< 10	54
524255	205	274	< 1	0.04	5	1390	4	4	12	211	< 0.01	< 10	< 10	94	< 10	50
524256	205	274	< 1	0.07	6	1170	2	6	10	268	< 0.01	< 10	< 10	88	< 10	42
524257	205	274	< 1	0.04	7	1310	< 2	10	11	241	< 0.01	< 10	< 10	92	< 10	46
524258	205	274	1	0.08	6	1190	2	2	12	188	< 0.01	< 10	< 10	68	< 10	42
524259	205	274	1	0.05	6	1110	2	4	10	172	< 0.01	< 10	< 10	68	< 10	42
524260	205	274	1	0.06	6	1250	2	4	9	170	< 0.01	< 10	< 10	83	< 10	48
524261	205	274	< 1	0.06	11	1340	6	2	9	198	< 0.01	< 10	< 10	100	< 10	48
524262	205	274	< 1	0.05	8	1430	< 2	2	10	173	0.01	< 10	< 10	103	< 10	46
524263	205	274	< 1	0.03	6	1480	4	2	9	189	< 0.01	< 10	< 10	75	< 10	42
524264	205	274	< 1	0.02	6	1220	2	2	8	237	< 0.01	< 10	< 10	86	10	48
524265	205	274	< 1	0.02	5	1320	10	4	7	307	< 0.01	< 10	< 10	95	< 10	52
524266	205	274	2	0.05	6	1400	4	2	7	216	0.02	< 10	< 10	118	10	48
524267	205	274	< 1	0.04	7	1640	2	2	8	266	0.02	< 10	< 10	141	10	68
524268	205	274	< 1	0.03	22	1300	2	2	12	430	0.01	< 10	< 10	131	10	62
524269	205	274	1	0.02	7	1400	2	4	9	358	< 0.01	< 10	< 10	91	10	62
524270	205	274	1	0.02	3	1160	2	2	8	482	< 0.01	< 10	< 10	57	10	34
524271	205	274	< 1	0.02	4	1110	2	4	8	586	< 0.01	< 10	< 10	56	10	38
524272	205	274	< 1	0.02	2	1510	< 2	4	9	482	< 0.01	< 10	< 10	83	10	36
524273	205	274	< 1	0.03	1	1690	6	2	9	375	0.02	< 10	< 10	96	10	34
524274	205	274	< 1	0.02	< 1	1550	4	2	8	499	0.01	< 10	< 10	86	10	32
524275	205	274	< 1	0.01	1	1120	4	2	5	340	< 0.01	< 10	< 10	56	10	28
524276	205	274	1	0.12	4	1080	10	2	6	127	0.13	< 10	< 10	153	< 10	52
524277	205	274	2	1.05	4	1250	6	2	5	360	0.16	< 10	< 10	172	< 10	54
524278	205	274	< 1	0.07	4	1440	8	4	9	339	0.14	< 10	< 10	187	10	58
524279	205	274	1	0.07	2	1530	< 2	6	9	287	0.05	< 10	< 10	123	10	42
524280	205	274	1	0.07	4	1410	4	2	8	1515	0.14	< 10	< 10	187	10	72
524281	205	274	< 1	0.07	1	1390	4	2	8	414	0.03	< 10	< 10	107	10	44
524282	205	274	< 1	0.03	2	1420	6	8	7	176	< 0.01	< 10	< 10	76	10	38
524283	205	274	1	0.06	3	2010	2	4	9	219	< 0.01	< 10	< 10	109	10	18
524284	205	274	< 1	0.09	2	1030	< 2	< 2	6	688	0.11	< 10	< 10	140	10	26
524285	205	274	< 1	0.06	4	1500	2	4	12	368	0.10	< 10	< 10	109	10	50

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: TECK EXPLORATIONS LTD.

350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :2-A
Total Pages :2
Certificate Date: 29-JUN-92
Invoice No. :I9216528
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216528

SAMPLE	PREP CODE		Au-AA ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
526286	205	274	5	< 0.2	0.44	22	750	< 0.5	< 2	4.63	< 0.5	8	21	30	2.60	< 10	< 1	0.29	< 10	1.99	1055
526287	205	274	< 5	< 0.2	0.58	12	1080	< 0.5	2	3.66	< 0.5	6	21	33	1.89	< 10	< 1	0.34	< 10	1.45	660
526288	205	274	< 5	< 0.2	0.59	6	820	< 0.5	< 2	2.92	< 0.5	5	14	23	1.98	< 10	< 1	0.39	< 10	1.07	620
526289	205	274	< 5	< 0.2	0.68	4	1210	< 0.5	< 2	3.26	< 0.5	5	18	12	2.07	< 10	< 1	0.40	< 10	1.26	665
526290	205	274	5	< 0.2	0.81	4	960	< 0.5	< 2	2.38	< 0.5	7	21	38	2.83	10	< 1	0.23	< 10	0.89	718
526291	205	274	< 5	< 0.2	1.12	12	500	< 0.5	< 2	1.73	< 0.5	7	23	64	2.75	20	< 1	0.16	< 10	0.76	595
526292	205	274	5	< 0.2	0.67	2	480	< 0.5	< 2	3.19	< 0.5	8	27	49	2.73	10	1	0.27	< 10	1.37	855
526293	205	274	55	1.0	0.86	832	300	< 0.5	< 2	7.73	8.5	14	22	3510	3.45	< 10	224	0.43	< 10	3.19	1235
526294	205	274	45	< 0.2	0.81	26	1440	< 0.5	2	6.30	< 0.5	16	16	428	4.68	10	1	0.60	< 10	0.83	1025
526295	205	274	50	< 0.2	0.98	40	690	< 0.5	< 2	6.66	< 0.5	17	17	276	4.45	10	< 1	0.47	< 10	0.92	1035
526296	205	274	5	< 0.2	0.89	8	730	< 0.5	< 2	6.81	< 0.5	16	18	225	3.97	10	2	0.50	< 10	2.28	1235
526297	205	274	5	< 0.2	1.19	< 2	750	< 0.5	2	4.16	< 0.5	17	23	139	5.00	10	3	0.37	< 10	1.62	1310
526298	205	274	5	< 0.2	1.54	12	430	< 0.5	4	4.00	< 0.5	17	32	149	5.04	10	1	0.22	< 10	1.54	1205
526299	205	274	< 5	< 0.2	1.89	6	890	< 0.5	< 2	4.84	< 0.5	17	30	119	4.52	20	< 1	0.13	< 10	1.93	1210
526300	205	274	< 5	< 0.2	1.82	2	520	< 0.5	< 2	5.46	< 0.5	10	26	71	3.25	10	< 1	0.11	< 10	1.32	1375
526301	205	274	< 5	< 0.2	1.55	< 2	70	< 0.5	< 2	2.35	< 0.5	8	21	92	2.73	10	1	0.14	< 10	1.06	765
526302	205	274	10	< 0.2	1.94	4	100	< 0.5	< 2	2.47	< 0.5	7	32	64	2.75	20	1	0.15	< 10	1.16	740
526303	205	274	5	< 0.2	2.25	6	90	< 0.5	2	2.29	< 0.5	7	33	101	2.72	20	1	0.18	< 10	1.23	745
526304	205	274	10	< 0.2	2.25	< 2	130	< 0.5	2	2.46	< 0.5	11	37	151	3.15	20	< 1	0.15	< 10	1.27	800
526305	205	274	< 5	< 0.2	1.87	4	170	< 0.5	< 2	3.00	< 0.5	7	26	59	2.57	10	< 1	0.16	< 10	1.03	735
526306	205	274	< 5	< 0.2	1.06	8	350	< 0.5	< 2	3.73	< 0.5	6	19	85	2.33	10	1	0.32	< 10	1.20	785
526307	205	274	5	< 0.2	1.32	2	390	< 0.5	< 2	3.47	< 0.5	7	24	92	2.56	10	< 1	0.17	< 10	1.18	775
526308	205	274	< 5	< 0.2	0.99	2	550	< 0.5	2	3.38	< 0.5	7	28	160	2.55	10	< 1	0.14	< 10	0.73	810
526309	205	274	< 5	< 0.2	1.76	6	240	< 0.5	< 2	2.78	< 0.5	10	25	189	2.44	20	< 1	0.14	< 10	1.06	755
526310	205	274	< 5	< 0.2	1.46	6	1860	< 0.5	2	3.17	< 0.5	8	34	46	2.96	10	< 1	0.19	< 10	1.02	835
526311	205	274	< 5	< 0.2	1.39	< 2	840	< 0.5	< 2	2.74	< 0.5	7	27	16	2.67	10	1	0.14	< 10	0.99	740
526312	205	274	< 5	< 0.2	1.13	2	500	< 0.5	< 2	2.86	< 0.5	8	33	40	2.68	10	1	0.17	< 10	0.95	785
526313	205	274	5	< 0.2	0.75	8	1680	< 0.5	< 2	3.28	< 0.5	8	23	33	2.49	< 10	< 1	0.28	< 10	0.88	745

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: TECK EXPLORATIONS LTD.
350 - 272 VICTORIA ST.
KAMLOOPS, BC
V2C 1Z8

Project : 1702
Comments: ATTN: FRED DALEY CC: TOR BRULAND

Page Number :2-B
Total Pages :2
Certificate Date: 29-JUN-92
Invoice No. :19216528
P.O. Number :
Account :HPQ

CERTIFICATE OF ANALYSIS A9216528

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
524286	205	274	< 1	0.03	4	1100	2	4	8	234	< 0.01	< 10	< 10	81	10	42
524287	205	274	< 1	0.03	1	940	< 2	< 2	5	196	< 0.01	< 10	< 10	47	< 10	12
524288	205	274	< 1	0.04	1	850	< 2	2	5	149	< 0.01	< 10	< 10	58	< 10	10
524289	205	274	< 1	0.05	1	820	< 2	4	5	150	< 0.01	< 10	< 10	61	10	10
524290	205	274	< 1	0.08	2	850	< 2	2	5	185	0.03	< 10	< 10	102	10	18
524291	205	274	1	0.08	3	870	< 2	< 2	3	184	0.08	< 10	< 10	126	10	20
524292	205	274	1	0.09	3	860	6	2	6	142	0.03	< 10	< 10	94	10	42
524293	205	274	2	0.02	3	1390	2	248	8	242	< 0.01	< 10	< 10	100	20	92
524294	205	274	< 1	0.03	2	1720	2	2	12	291	0.04	< 10	< 10	138	20	44
524295	205	274	< 1	0.03	4	1700	< 2	4	11	267	0.09	< 10	< 10	154	20	60
524296	205	274	< 1	0.02	4	1550	< 2	2	10	388	0.07	< 10	< 10	113	20	56
524297	205	274	< 1	0.02	7	1400	< 2	4	10	114	0.02	< 10	< 10	123	20	60
524298	205	274	1	0.04	9	1680	6	2	13	139	0.03	< 10	< 10	176	20	60
524299	205	274	1	0.03	10	1510	< 2	2	15	183	0.11	< 10	< 10	182	20	60
524300	205	274	1	0.04	7	1280	4	2	12	186	0.06	< 10	< 10	149	10	76
524301	205	274	< 1	0.06	5	1160	4	< 2	8	100	0.05	< 10	< 10	109	10	44
524302	205	274	< 1	0.07	5	1140	2	< 2	8	106	0.08	< 10	< 10	119	10	48
524303	205	274	< 1	0.10	5	1140	6	< 2	8	105	0.12	< 10	< 10	125	10	50
524304	205	274	1	0.07	5	1140	6	< 2	8	90	0.12	< 10	< 10	129	10	62
524305	205	274	< 1	0.07	5	1110	8	2	7	293	0.05	< 10	< 10	97	10	48
524306	205	274	< 1	0.06	5	1090	4	6	7	499	< 0.01	< 10	< 10	62	< 10	50
524307	205	274	< 1	0.05	5	1040	2	4	7	1630	0.01	< 10	< 10	87	10	54
524308	205	274	< 1	0.05	5	1080	4	2	7	463	< 0.01	< 10	< 10	81	< 10	62
524309	205	274	< 1	0.06	6	1130	4	4	7	3570	0.05	< 10	< 10	100	10	58
524310	205	274	< 1	0.08	4	1190	12	2	9	392	0.03	< 10	< 10	113	10	54
524311	205	274	< 1	0.06	5	1140	6	2	8	1360	0.02	< 10	< 10	97	10	48
524312	205	274	< 1	0.06	6	1080	16	2	7	231	0.01	< 10	< 10	92	< 10	50
524313	205	274	< 1	0.04	4	1110	6	4	6	346	< 0.01	< 10	< 10	78	< 10	46

CERTIFICATION:

P.D.I. GRID

RAINBOW BRECCIA ZONE

VALENTINE ZONE

HIGH GRADE ZONE

NORTH GRID

SOUTH GRID

MARCH 1991 GRID

BEAVER GRID

DDH-1 DDH-2 DDH-3 DDH-4 DDH-5 DDH-6 DDH-7 DDH-8 DDH-9 DDH-10 DDH-11 DDH-12 DDH-13 DDH-14 DDH-15 DDH-16

L 100+00N L 90+00N L 86+00N L 85+00N L 80+00N L75+00N L 73+00N L 70+00N L 67+00N L 62+00N L 62+00N L 56+00N L 52+00N

T/L 75+00E T/L 85+00E T/L 95+50E T/L 100+00E T/L 110+00E T/L 114+00E T/L 125+00E

B/L 100+00E B/L 95+50E

Jess Lake · Cotwood · Sixteen Mile Lake · Fifteen Mile Lake · Thirteen Mile Lake · Big Canyon Creek · Fiye Creek

LITHOLOGIES

SEDIMENTARY and VOLCANIC ROCKS

UPPER TRIASSIC (CARNIAN)
- 1a dark grey shale siltstone and sandstone
- 1b grey green to dark grey andesite and basalt
- 1c volcanic sediments

UPPER TRIASSIC (NORIAN)
- 2 pyroxene porphyritic basalt and fragmental basalt

LOWER JURASSIC (SINEMURIAN)
- 3a intermediate to mafic andesite, latite and ash tuff
- 3b feldspar porphyry
- 3c polylithic agglomerates and volcanic breccias (containing mainly intermediate volcanic clasts)
- 3d polylithic intrusive and volcanic breccias

INTRUSIVE ROCKS

LOWER JURASSIC (SINEMURIAN)
- 4 fine grained syenite, monzonite and diorite
- 5 feldspar porphyry (monzonite?) and aplite cut by abundant mafic dykes
- 6 hornblende needle porphyry

SYMBOLS

- FAULT
- BEDDING (with dip)
- JOINT
- FOLIATION
- GEOLOGICAL CONTACT
- Cu COPPER OCCURENCE
- DRILL HOLE (showing surface trace and depth)
- 4000 N GRID LINES
- JR011 SAMPLE LOCATION (with sample number)
- 1991 IP LINES
- CHL ALT ALTERATION ZONES
- PROPERTY BOUNDARY
- DRILL HOLE SECTION

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,576

TECK EXPLORATION LTD.

MOUSE MOUNTAIN PROPERTY
QUESNEL AREA, B.C.

PROPERTY GEOLOGY

0 250 500 750 1000 metres

DATE DRAWN: NOV. 1991	SCALE: 1:10,000	DWG. No:
COMPILED BY: P.D.	JOB No: 1702	Fig. 5
DRAWN BY: S.A.	NTS No: 93B/16W	

MTN #2

MTN MM1

AREA OF DUPONT DRILLING

RAINBOW BRECCIA ZONE

VALENTINE ZONE

HIGH GRADE SHOWING

MM91-1
MM91-2
MM91-3
MM91-4
MM91-5
MM91-6
MM91-7
MM91-8
MM91-9
MM92-10
MM92-11
MM92-12
MM92-13
MM92-14
MM92-15
MM92-16

SECTION 10565N

THIRTEEN MILE LAKE 924± LYN T

EXCEL 5

881±

926±

898±

946.8
928.0
957.8
948.8
950.8
1034.8
987.0
983.6
895.4
806.6
806.2
781.2

LITHOLOGIES

SEDIMENTARY and VOLCANIC ROCKS

UPPER TRIASSIC (CARNIAN)

- 1a — dark grey shale siltstone and sandstone
- 1b — grey green to dark grey andesite and basalt
- 1c — volcanic sediments

UPPER TRIASSIC (NORIAN)

- 2 — pyroxene porphyritic basalt and fragmental basalt

LOWER JURASSIC (SINEMURIAN)

- 3a — intermediate to mafic andesite, latite and ash tuff
- 3b — feldspar porphyry
- 3c — polylithic agglomerates and volcanic breccias (containing mainly intermediate volcanic clasts)
- 3d — polylithic intrusive and volcanic breccias

INTRUSIVE ROCKS

LOWER JURASSIC (SINEMURIAN)

- 4 — fine grained syenite, monzonite and diorite
- 5 — feldspar porphyry (monzonite?) and aplite cut by abundant mafic dykes
- 6 — hornblende needle porphyry

SYMBOLS

- FAULT
- BEDDING (with dip)
- JOINT
- FOLIATION
- GEOLOGICAL CONTACT
- CU — COPPER OCCURENCE
- MM91-1 — DRILL HOLE (showing surface trace and depth)
- 100+00 N — GRID LINES
- JR0059 — SAMPLE LOCATION (with sample number)
- 1991 IP LINES
- CHL ALT / K ALT — ALTERATION ZONES
- DRILL HOLE SECTION

GEOLOGICAL BRANCH ASSESSMENT REPORT

22,576

TECK EXPLORATION LTD.

MOUSE MOUNTAIN PROPERTY
QUESNEL AREA, B.C.

GEOLOGY MAP of MOUSE MOUNTAIN AREA

DATE DRAWN: OCTOBER 23, 1991	SCALE: 1:5,000	DWG. No. Fig. 6
COMPILED BY: P.D.	JOB NO: 1702	
DRAWN BY: S.A.	NTS. No: 93B/16W	

LEGEND

OUTCROPS

100+00 N —— GRID LINES

RESULTS FROM 1989 SURVEYS

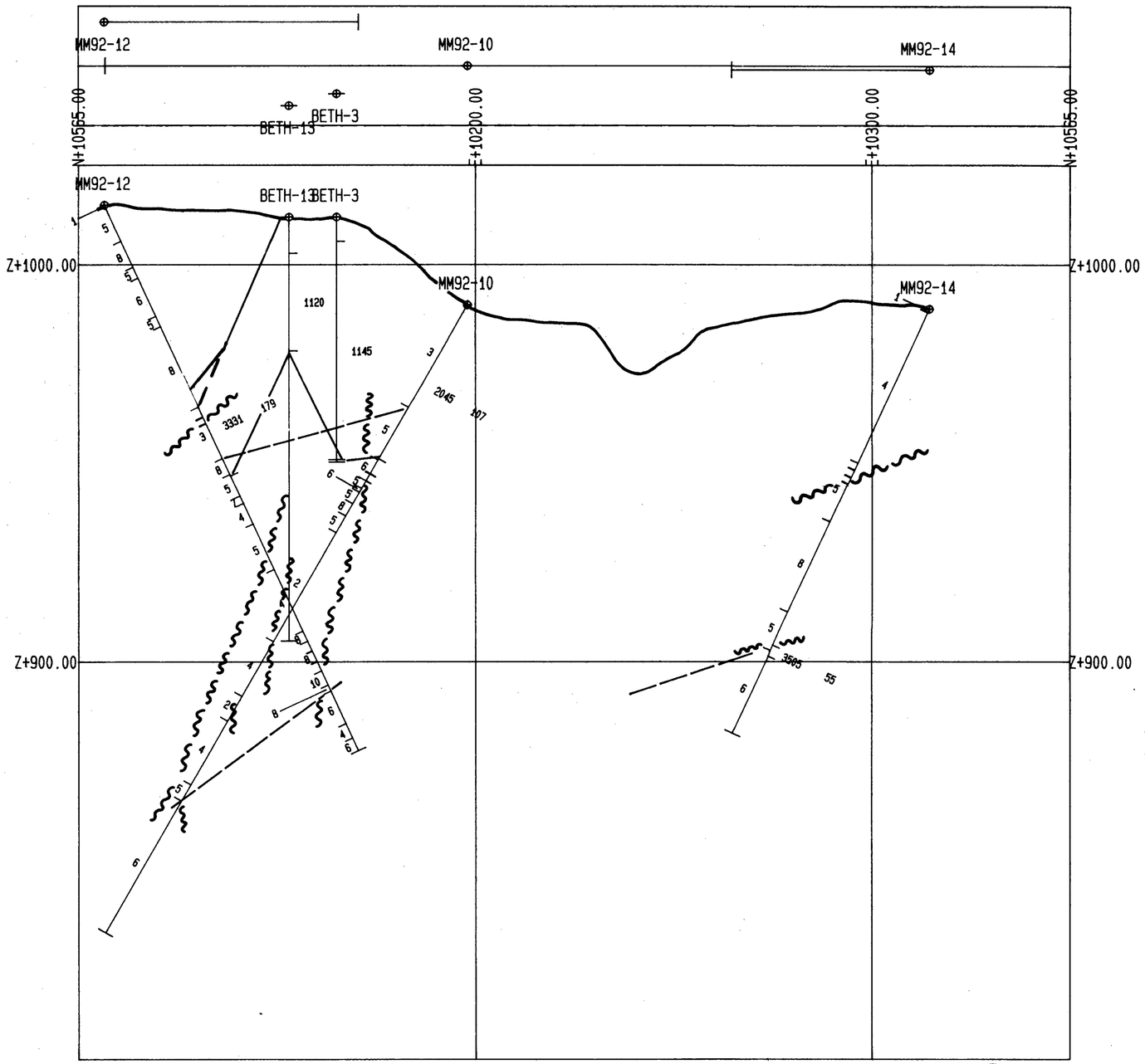
1 — Cu SOIL GEOCHEMISTRY ANOMALY >125 ppm Cu
2 — GROUND MAGNETIC LOW
3 — GROUND MAGNETIC HIGH
4 — CHARGEABILITY HIGH

TECK EXPLORATION LTD.

MOUSE MOUNTAIN PROPERTY
QUESNEL AREA, B.C.

COMPILATION OF 1989 RESULTS

DATE DRAWN: OCTOBER 23, 1991	SCALE: 1:5,000	DWG. No: Fig. 8
COMPILED BY: P.D.	JOB No: 1702	
DRAWN BY: S.A.	NTS No: 93B/16W	



LEGEND

LITHOLOGIES

1.....OVERBURDEN
2.....SYENITE BRECCIA
3.....POTASSICALLY ALTERED SYENITE BRECCIA
4.....POLYLITHIC INTRUSIVE ? BRECCIA
5.....ALTERED POLYLITHIC INTRUSIVE BRECCIA
6.....LATITE
7.....ALTERED LATITE
8.....ALTERED LATITE BRECCIA
10....FAULT

SYMBOLS

FAULT
GEOLOGICAL CONTACT
MINERALIZED ZONE

Kamloops Office
272 Victoria Street
Suite 350
Kamloops, BC V2C 2A2

	DATE: 07/10/92	TIME: 15:03:44
1		
2		
3		
4		
5		

Teck Explorations Limited

MOUSE MOUNTAIN PROPERTY (VALENTINE ZONE)

DDH SECTION OF 10565 NORTH (Looking North)

LEFT SIDE: Lithology

RIGHT SIDE: ppm Cu 1st col.; ppb Au 2nd col.

SCALE (HORIZONTAL) 1:1000 SCALE (VERTICAL) 1:1000 **Fig. 9**