

GM 58048

REPORT ON THE 2000 DIAMOND DRILLING PROGRAM ON THE LEMOINE PROPERTY

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TECK EXPLORATION LTD.

NORTH BAY, ONTARIO

**REPORT ON THE
2000 DIAMOND DRILLING PROGRAM
ON THE
LEMOINE PROPERTY
LEMOINE, RINFRET AND DOLLIER TOWNSHIPS
QUEBEC**

by
L. Martin



MRN-GÉOINFORMATION 2000

GM 58048

Report No. 1337NB

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SUMMARY

The Lemoine property is located in Abitibi Greenstone Belt, 15 miles southeast of the mining town of Chibougamau, Quebec. It is a gold-rich massive sulphide project covering 9215 acres, in parts of Lemoine, Rinfret and Dollier Townships. The property includes the exceptionally high-grade past producing Lemoine mine which produced 835 629 short tons grading 9.56% Zn, 4.20% Cu, 0.13 oz/ton Au and 2.43 oz/ton Ag. The property covers 10 miles of favourable Waconichi Formation stratigraphy on the southern limb of the Chibougamau anticline.

In 1999, Teck undertook an exploration program which included line cutting, grid refurbishing and 46 line-miles of DeepEM surveying. The geophysics was followed by surface geological mapping and whole-rock analysis, which identified several areas with favourable geology, significant sulphide mineralization and hydrothermal alteration.

A follow-up program in 2000 included the drilling of four holes totalling 3457 feet. Two holes tested the interpreted Lemoine mine horizon and Lower Zinc Zone at a distance of 2.2 miles and 3.6 miles to the northeast of the Lemoine mine. The third hole tested a strong DeepEM anomaly near the northern contact of the rhyolites while the fourth hole tested strongly altered rhyolites with anomalous Zn-Cu mineralization 2.7 miles southwest of the mine. The best intersection of the drill program was a one-foot interval which assayed 2.03% Cu. Strong hydrothermal alteration has been identified in three of the four holes, one of which also had anomalous zinc mineralization. Downhole Pulse EM surveys were completed in two of the four holes. A large wavelength in-hole response was detected in hole L95-8ext.

No further follow-up work is proposed on the targets tested by the 2000 diamond drilling program.

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INTRODUCTION

The objective of the program was to identify and locate gold-rich massive sulphides within the Waconichi Formation, which underlies the Lemoine property for 10 miles along strike. The property includes the exceptionally high-grade past producing Lemoine mine (835 629 tons grading 9.56% Zn, 4.20% Cu, 0.13 oz/ton Au and 2.43 oz/ton Ag).

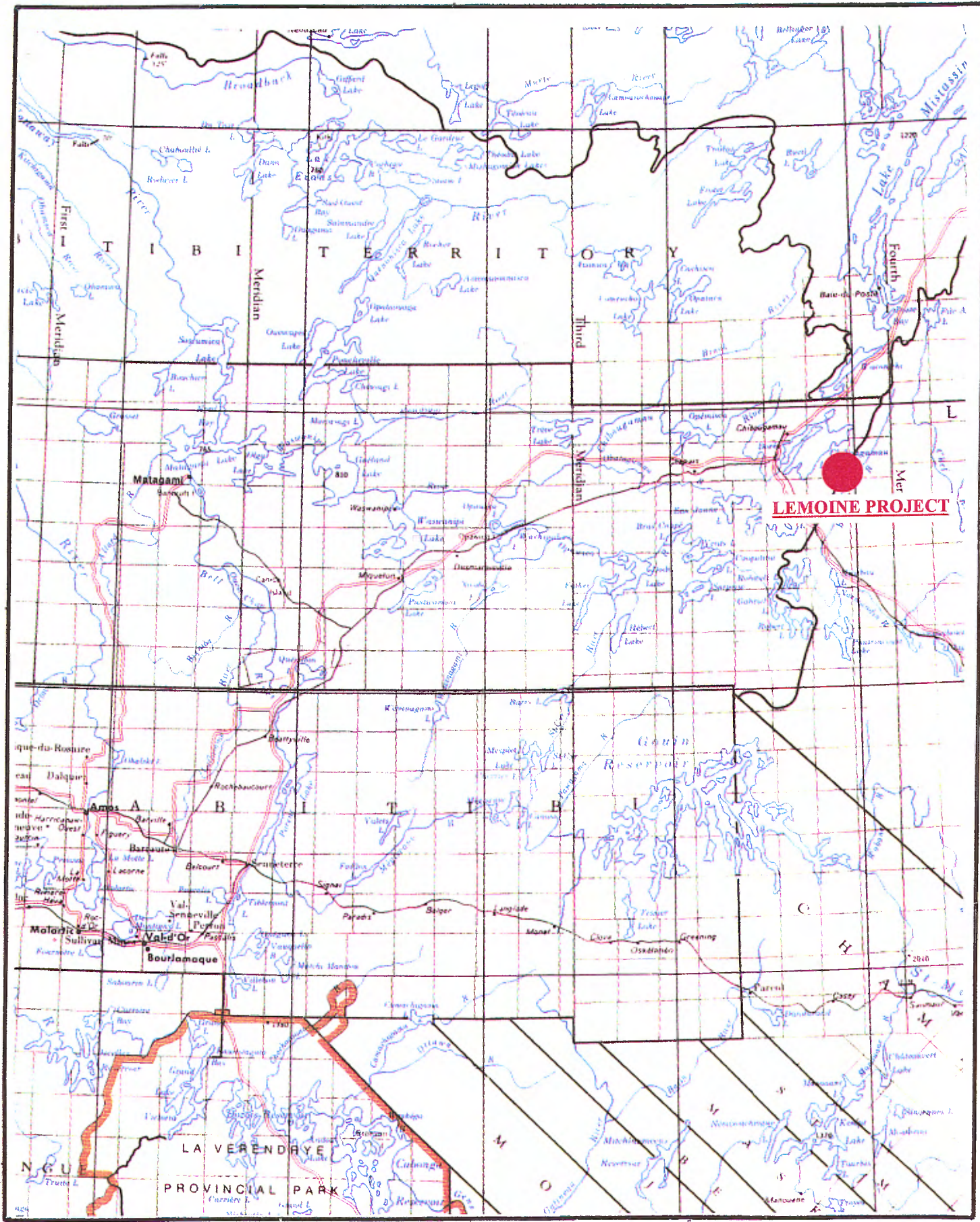
Initial work by Teck Exploration Ltd. in 1999, consisted of a deep penetrating geophysical survey (DeepEM), geological mapping, whole-rock analysis and geological compilation. This work identified potential extensions of the known mineralized horizons, as well as several new areas with favourable geology, significant sulphide mineralization and hydrothermal alteration. Based on the results of the 1999 exploration program a follow-up diamond drill program was undertaken.

This report documents the results of the diamond drilling, whole rock analyses and downhole Pulse EM program completed on the Lemoine property during February and March, 2000.

Due to the use of imperial measurements for all drill holes and the surface grid, units in this report will be in imperial measures.

LOCATION AND ACCESS

The Lemoine property is located 15 miles southeast of the town of Chibougamau, Quebec, in the townships of Lemoine, Rinfret and Dollier (Figure 1). The property is easily accessed by truck by following provincial highway 167 south from the town of Chibougamau for 20 miles. From kilometre marker 200, an all weather logging road (L-210) runs in an easterly direction for 12.5 miles. From this point, a fork in the road leads to the northeast for 3 miles to the mine site. Access to most of the property is fairly easy due to the mine road and a series of



LOCATION MAP

Figure 1

1 inch equals approximately 32 miles



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logging roads that cross the property in a northeasterly direction, running slightly oblique to the strike of the rocks.

The railway and loading station which were previously used by the Lemoine mine to ship concentrate are located 7.5 miles west of the property.

TOPOGRAPHY AND VEGETATION

The topography on the property varies from very low relief in the southeastern part to greater than 300 feet along the northwest edge due to a large rock-dominated ridge. The central and southeastern part of the property is covered by muskeg and black spruce swamp, while the northwestern trending ridge is dominated by spruce, jack pine and mixed hardwoods. Overburden depths are known to be in excess of 60 feet locally.

CLAIMS AND OPTIONS

The Lemoine property consists of 233 contiguous mining claims, covering a total of 9215 acres in Lemoine, Rinfret and Dollier Townships (Figure 2, Appendix I). The owner of the Lemoine property, Loubel Exploration Ltd., has optioned the property to Teck Corporation under the terms of an agreement dated January 6, 1999. Teck has the option to earn a 60% interest in the property by incurring as operator, aggregate expenditures of \$3.0 million over a period of 5 years and by purchasing, by way of private placement, \$300,000 worth of common shares of Loubel over a 2 year period.

PREVIOUS WORK

Since 1949, the Chibougamau-Chapais region has seen the development of approximately 30 mines that produced more than 81.6 million short tons of ore, including 147 tons of gold, 771 tons of silver, 1.4 million tons of copper, 127 000 tons of zinc and 4850 tons of lead (Pilote, 1998). The Lemoine mine is the only significant volcanogenic sulphide deposit discovered in the

Chibougamau area, apart from the smaller Scott Lake deposit which is located on the northern flank of the Chibougamau Pluton.

Prior to the discovery of the Lemoine mine in 1973, the property was intermittently explored by such companies as Noranda and Hudson Bay Mining and Smelting. Various portions of the property were explored with airborne EM, ground EM and magnetic surveys and limited diamond drilling.

The Lemoine mine was discovered in 1973 by Patino Mines following 6 years of exploration in the area. The discovery was the result of drill testing a weak INPUT anomaly up-ice from several high-grade massive sulphide boulders. The diamond drilling identified a single lens of massive sulphide, 5 to 30 feet thick and 575 feet in strike length. Shaft sinking was initiated in 1974 and mining started in the following year. Production spanned 1975 to 1983, during which time Patino Mines Ltd. and Northgate Explorations extracted 835 629 tons grading 9.56% Zn, 4.2% Cu, 0.13 oz/ton Au and 2.43 oz/ton Ag.

Along with the discovery and mining of the Lemoine deposit, Patino and Northgate (1973-1985) completed 115 surface drill holes totalling 92 500 feet. Ground geophysical surveys on the property included magnetic, VLF-EM, MaxMin, UTEM, DeepEM, SAMT, gravity and Beep Mat surveys. Soil and stream sediment surveys were also completed in the area close to the mine. No additional significant mineralization was identified.

Westminer Canada Ltd. (1989-1994) completed a detailed compilation of the mine area along with various IP and EM surveys, including Westminer's SIROTEM system. Diamond drilling of 3 holes totalling 6091 feet was completed. Although never having mined the orebody, Westminer completed all required reclamation of the tailings pond and surrounding mine site in 1994.

Soquem (1994-1996) optioned the property from Westminer at which time they undertook a compilation of all previous drilling and geophysical data. Soquem completed Melis

(44 miles), and MaxMin (170 miles) surveys over most of the property, as well as a more local seismic tomography survey and 21 diamond-drill holes totalling 25 059 feet.

In 1999, Teck Exploration completed a first phase of exploration which included line cutting, grid refurbishing and 46 line-miles of DeepEM surveying. The DeepEM survey examined the area below the depth penetration of the previously completed geophysical surveys and shallow diamond drilling. The geophysics was followed by geological mapping and whole-rock analysis, which identified several areas with favourable geology, significant sulphide mineralization and hydrothermal alteration (Figure 3).

GEOLOGY

Regional Geology

The Lemoine property is located in the Chibougamau-Caopatina region, within the northeastern corner of the Abitibi Belt of the Superior Province. It lies at the eastern termination of the "Northern Volcanic Zone", a greenstone unit which extends 155 miles east of Matagami. The area is limited to the north by the Opatica gneiss Belt, and to the east by the Grenville Province (Figure 4).

The regional stratigraphy in the southern part of the Chibougamau camp can be divided into 2 major groups. These include volcanic rocks of the Roy Group and the unconformably overlying epiclastic sediments of the Opemisca Group. Intrusive rocks of the Chibougamau region include the mafic-ultramafic Dore Lake Complex whose core is intruded by the younger Chibougamau Pluton (Figures 5,6).

The Roy Group is composed of 2 mafic-felsic volcanic cycles. Cycle 1 rocks, dated at 2730 ± 2 Ma (Mortensen, 1993), are made up of a 2 to 2.5 mile thick sequence of mafic volcanic rocks of the Obatogamau Formation, overlain by a thin (about 0.5 mile thick) yet persistent unit of felsic volcanic rocks of the Waconichi Formation. The overlying Cycle 2 rocks, dated at 2718

LEMOINE MINE

Production 758,070 tons


9.56% Zn

4.20% Cu

4.54 g/t Au

83.38 g/t Ag

DORE LAKE COMPLEX

-  Border Zone
-  Granophyre
-  Ultramafic Intrusive

STELLA FORMATION

-  Sediments

GILMAN FORMATION

-  Mafic Volcanics

WACONICHI FORMATION

-  Felsic Volcanics

Southwest Alteration Zone
Widespread Na₂O depletion
1.12% Cu, 5.36% Zn over 0.3m
0.96% Zn over 5.5m

Armitage Lake Zn Showing
3.03% Zn (grab)

Cu-Ag Mineralized Boulder
1.4% Cu, 15g/t Ag

Altered Rhyolites +
Py mineralization

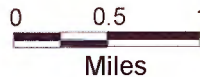
Gold Hill
48.2 g/t Au, 2.8% Cu, 2.3% Zn (grab)
6.3g/t Au over 7.3m

Altered Rhyolite +
Py stringers

Rusty Ridge

Mineralized Boulder

Mineralized Boulders



TECK EXPLORATION LTD.

**Lemoine Property
Areas of Interest**

Date Drawn : March 28, 2000

Job Number : 167700

Drawn By : L. Martin

N.T.S. : 032G09, G/16, H/13

Drawing : Workspace: Quebec\Areas\Lemoine\Working\20000 Report\Geological_Interest

Figure 3

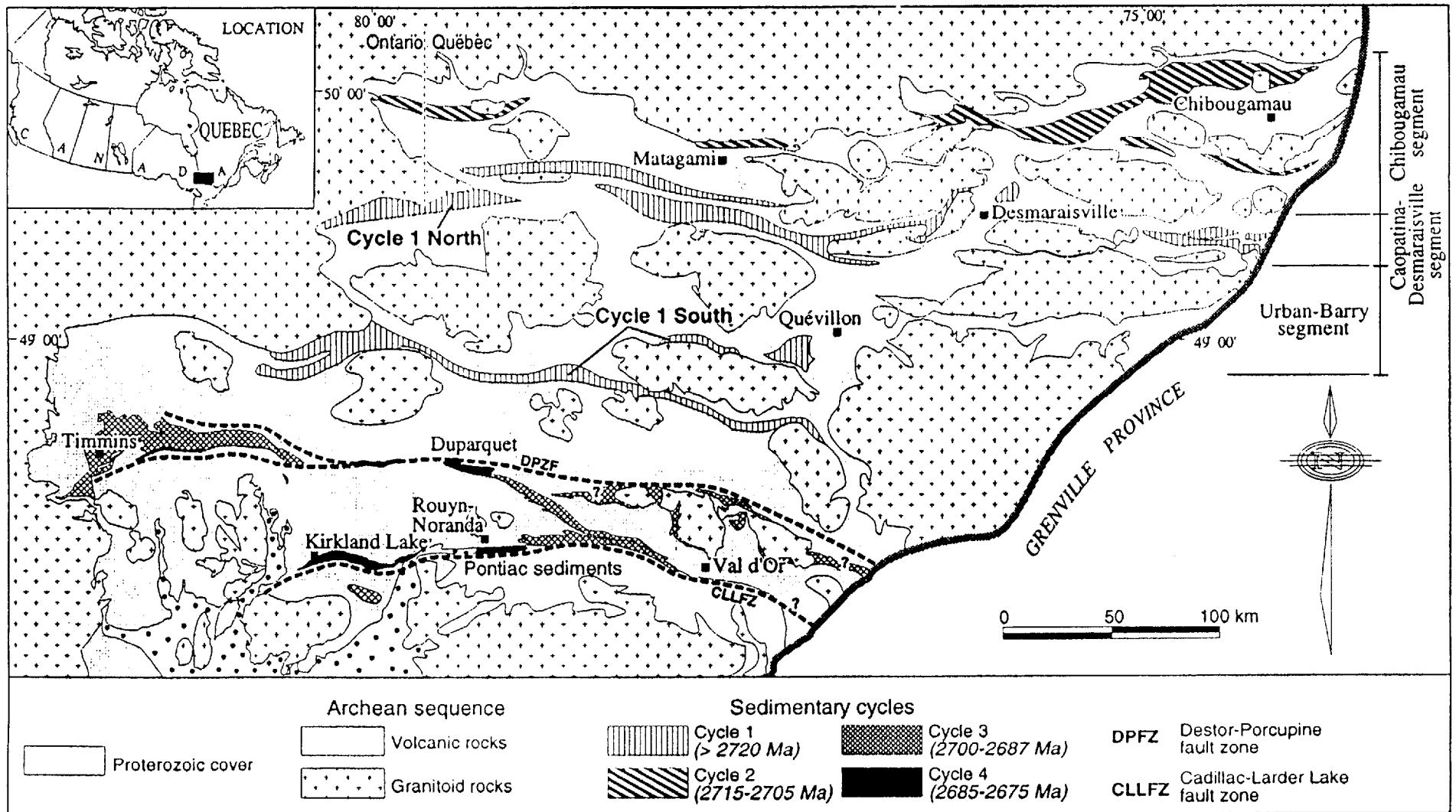
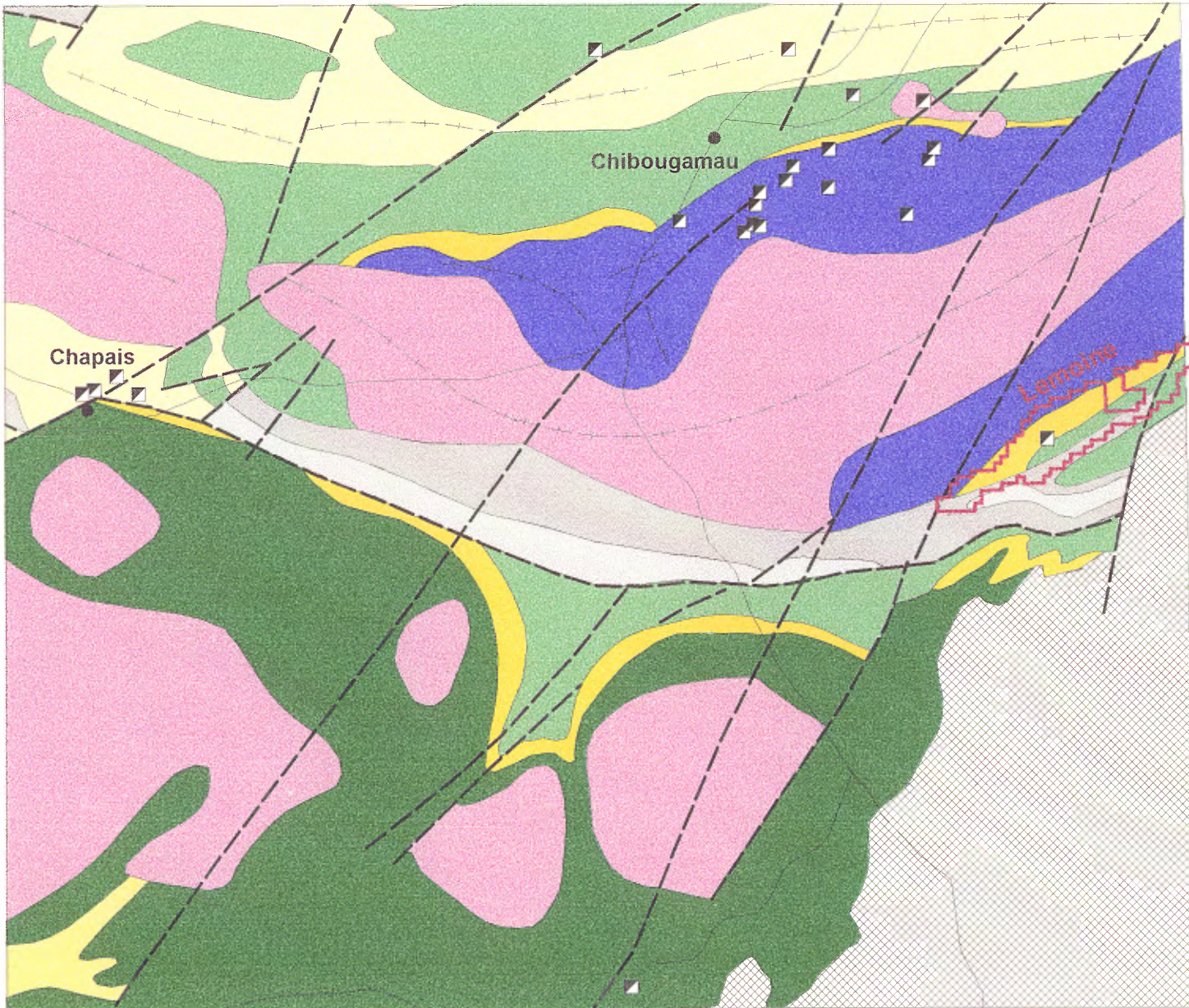


Figure 4: General geology of the Abitibi Sub-province and location of the Chibougamau area.



Chibougamau Regional Geology



-  Grenville
-  Plutons
-  Dore Lake Complex
-  Haüy Formation
-  Stella Formation
-  Blondeau Formation
-  Gilman Formation
-  Waconichi Formation
-  Obatogamau Formation
-  Mine



Figure 5

Stratigraphy of the Chibougamau Area

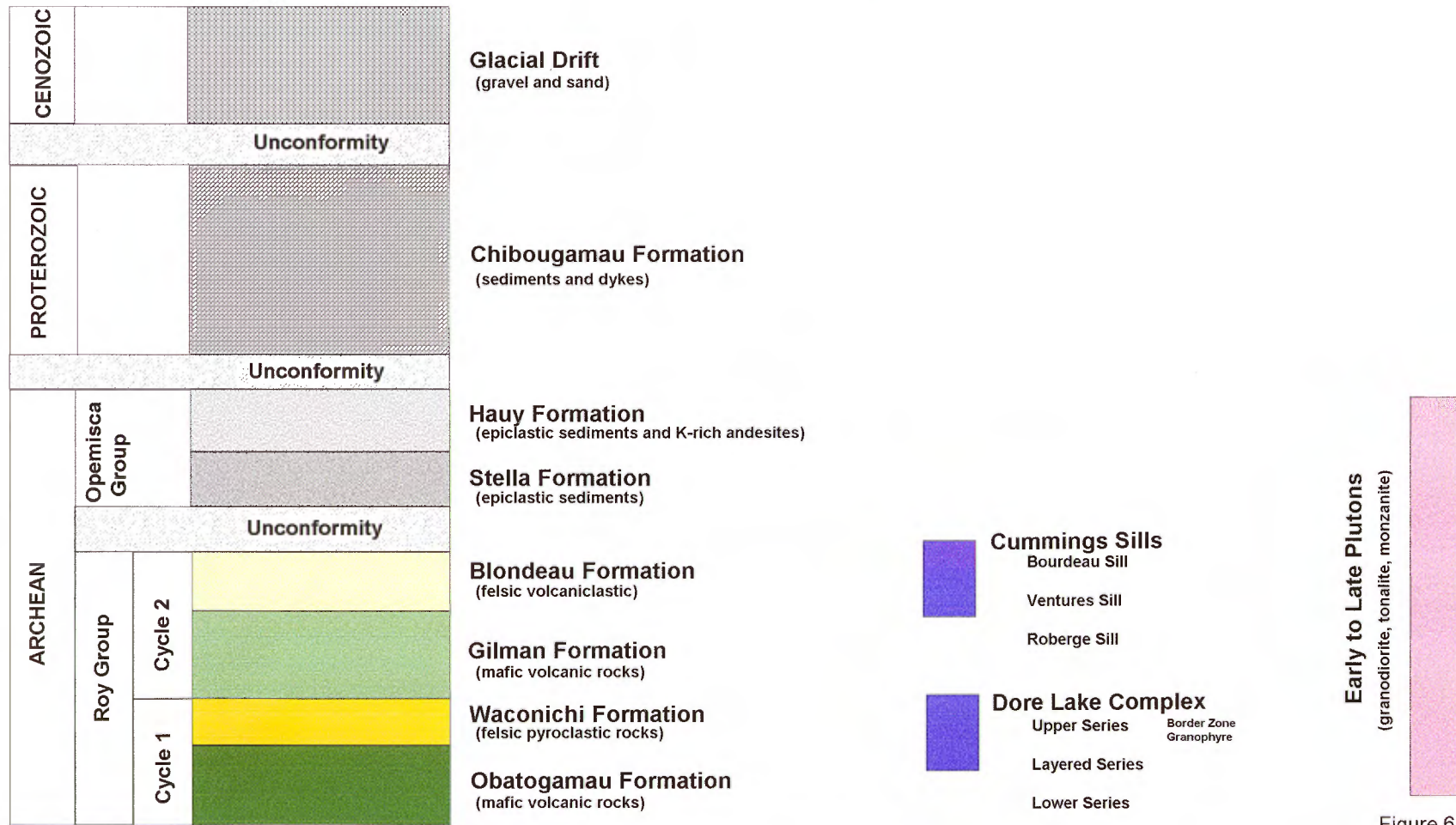


Figure 6

± 2 Ma (Krogh 1982), include a 2 to 2.5 mile thick sequence of mafic volcanic rocks of Gilman Formation overlain by a 1.2 to 2.0 mile thick sequence of felsic and minor mafic volcanic rocks and sediments of the Blondeau Formation.

Lying unconformably above the volcanic rocks of the Roy Group are the sedimentary rocks of the Opemisca Group, which include the Stella Formation and the younger Hatiy Formation. These sedimentary rocks include argillites, greywackes and conglomerates that were deposited in fault controlled basins and now preserved in synclinal structures.

The Dore Lake Complex, dated at 2728 Ma, is a differentiated layered intrusion emplaced at the base of the Waconichi Formation. It is made up of 3 series: the Lower Series is composed of gabbros and anorthosites, which on the north flank of the complex hosts the typical Chibougamau-type copper-gold mines; the Bedded Series or Layered Zone, contains pyroxenite and gabbro units rich in iron oxide, titanium and vanadium (Dore Lake Vanadium Deposit) alternating with anorthositic units; and the Upper Series includes the more felsic Granophyre Zone and the Border Zone.

The Chibougamau Pluton, a synvolcanic intrusion dated at 2718 Ma., is located at the core of the Chibougamau anticline and crosscuts the Dore Lake Complex. This multi-phase pluton of calc-alkaline affinity is composed of diorites and tonalites.

Structurally, the Chibougamau area has undergone regional east-west trending folding which is responsible for the steep nature of the strata. Four important folding events have been identified, three of which are Archean in age. The area has been crosscut by a large number of faults. Four fault populations have been recognized. The most prominent fault population is the late-stage north-northeast trending one, which parallel the Grenville Front.

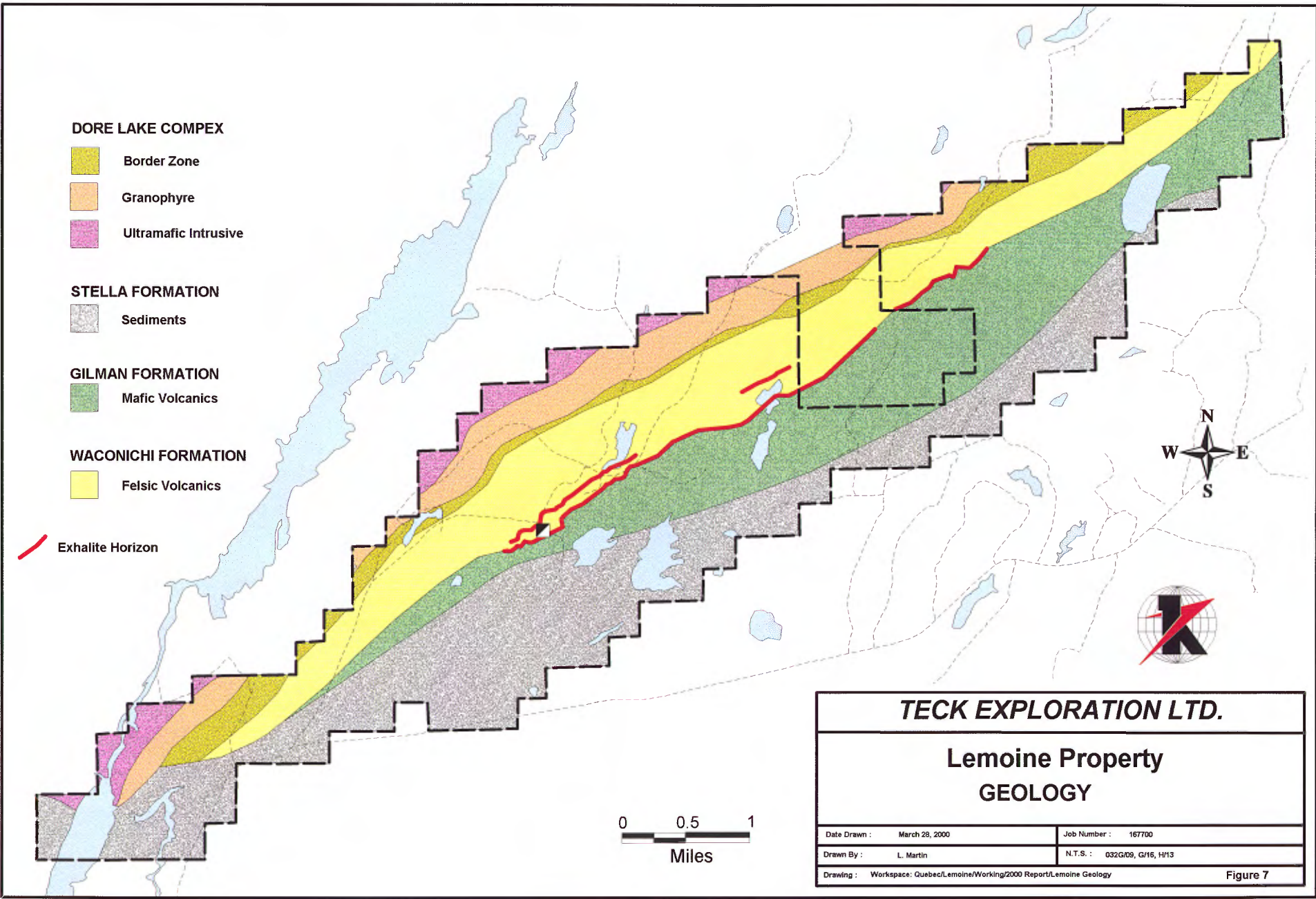
Property Geology

The Lemoine property is underlain by felsic, mafic and volcano-sedimentary rocks that are both south facing and south dipping and have a northeast-southwest strike (Figure 7, Drawing 7387). The property is composed of felsic volcanic and intrusive rocks of the Waconichi Formation overlain by mafic volcanics of the Gilman Formation, which in turn are unconformably overlain by sediments of the Stella Formation. The base of the Waconichi Formation is intruded by the semi-conformable Dore Lake Complex. Metamorphic grade is of greenschist facies over most of the property while amphibolite facies rocks are present in the easternmost part of the property, closer to the Grenville Front.

Waconichi Formation

The lowermost stratigraphic units on the Lemoine property are the felsic volcanic and intrusive rocks of the Waconichi Formation. These felsic rocks mark the end of the basaltic volcanism for the first volcanic cycle in the Chibougamau area. The felsic rocks are the most economically important since they are host to the Lemoine deposit. They vary from massive aphyric to weakly porphyritic rhyolite flows, quartz-feldspar-porphyritic crystal tuffs and quartz-feldspar porphyritic subvolcanic dykes or sills. Lesser amounts of pyroclastics (lapilli to block tuffs) and lobed rhyolitic flows were identified in outcrops.

Two exhalite units, as identified from underground work and diamond-drill holes, form stratigraphic markers in the mine area. The H/W Exhalite is located in the Waconichi Formation at the contact with the overlying Gilman Formation. The F/W Exhalite, typically 1 foot thick, is located approximately 500 feet north of the Waconichi – Gilman Formation contact, in contact with and directly overlying the Lemoine mine sulphides (Cunningham-Dunlop, 1984). This exhalite is considered the most prospective for hosting a massive sulphide deposit.



Lemoine Deposit

The deposit is a single lens of massive sulphide, 5 to 30 feet thick, 575 feet in strike length and with a preserved vertical extent of 1400 feet. The mine occurs stratigraphically below the F/W Exhalite at the contact between a more massive aphyric rhyolite and an overlying crystal tuff. Underground work identified a synvolcanic fault with coincident chlorite and sericite alteration adjacent to the sulphide mineralization. The fault is oriented parallel to the long axis of the massive sulphides, at approximately 003° to 030° with a near vertical dip. In the footwall, close to the sulphide mineralization, is a distinctive unit of "garnets with green chlorite". The Lemoine mine is also underlain by a "Lower Zinc Zone", located 650 feet to the north and extending for more than 1500 feet to the northeast. Anomalous zinc mineralization and strong carbonate alteration characterize this zone.

Gilman Formation

Stratigraphically above the Waconichi Formation is a 5000 foot thick sequence of mafic volcanics. The volcanic rocks typically consist of fine-grained flows that are massive to locally pillowed or have flow top pillow breccias. Pillow directions are consistent with a younging direction to the south. Local small lenses of felsic volcanic material have been identified within the mafic volcanics.

Stella Formation

The Stella Formation, a member of the Opemisca Group, lies unconformably on top of the Gilman and Waconichi formations. The epiclastic sediments vary from a sequence of fine turbiditic wackes of intermediate composition to coarse heterolithic conglomerates containing both felsic volcanic and granitoid clasts. Graded bedding and crossbedding observed in outcrop are consistent with tops to the south.

Dore Lake Complex

The rocks of the Dore Lake Complex, which include the Layered Series and Upper Series, are intruded at the base of the Waconichi volcanics. On the Lemoine property, the Layered Series is characterized by massive, fine to coarse grained ferrogabbro and ferroproxenite rocks. Overlying the Layered Series is the Upper Series, which includes the Granophyre Zone, a medium grained leucocratic tonalite and the Border Zone which includes fine-grained gabbros and anorthosites.

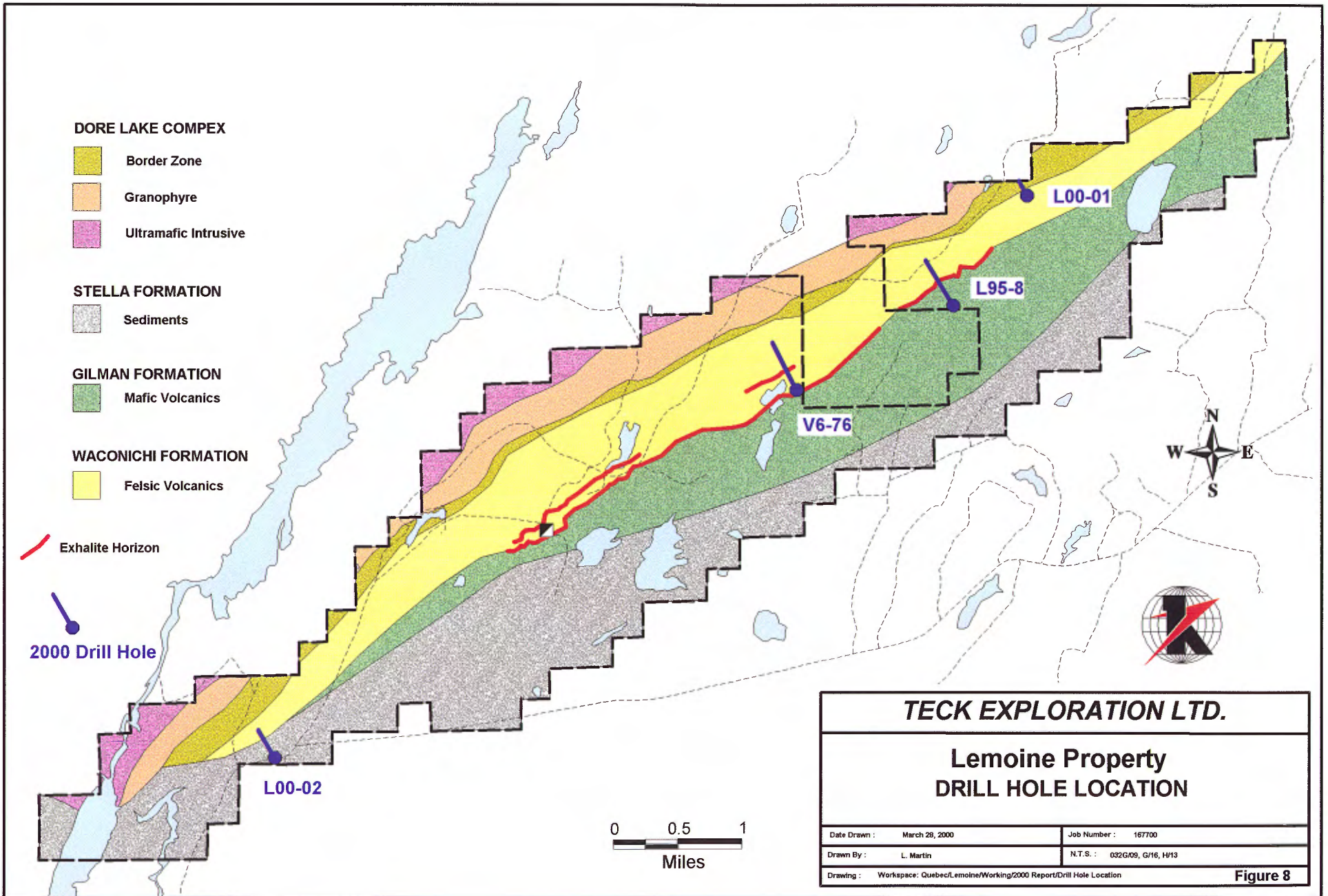
Dykes and Sills

Numerous multiphase sills and dykes, most commonly found in the Waconichi Formation, intrude the volcanic formations. Most prominent are the quartz-feldspar porphyry sills found in the eastern part of the property. Also present on the property are slightly discordant gabbro/diorite sills and dykes. An abundance of smaller, later stage, fine-grained mafic dykes have been identified underground and in outcrops near the mine.

2000 EXPLORATION PROGRAM

Diamond Drilling

The diamond drilling program was carried out on the Lemoine property between February 7 and February 27, 2000. Four drill holes (3 "BQ" size and 1 "AQ" size) totalling 3457 feet were drilled by Forage M. Rouillier Inc. of Amos, Quebec. Two of the four holes, L95-8ext and V6-76ext, were extensions of previously drilled holes (Figure 8). The diamond drilling program was supervised by L. Martin with the help of D. Emond. The drill core was logged and stored in the town of Chibougamau. The diamond-drill logs are included in Appendix II and illustrated on drawings 7382 to 7387 (in pockets). The holes were surveyed at 100 foot intervals for dip and azimuth change using a Sperry-Sun single shot instrument leased from Sperry-Sun Inc.



Geochemistry

A total of 100 mineralized core samples were split and sent for Cu, Zn, Ag and Au analysis to Les Laboratoires XRAL of Rouyn-Noranda, Quebec. A total of 35 composite drill core samples were systematically taken over 10 foot lengths at 100 foot intervals and sent for lithochemical analysis. The analysis included 10 major oxides, loss on ignition and trace elements by X-Ray fluorescence spectrometry on a pressed pellet, as well as a 32 element geochemical package by acid extraction with determination by I.C.P. spectroscopy. Gold assays were done by DCP after collection by fire assay. All sample preparation and gold analyses were done by Les Laboratoires XRAL located in Rouyn-Noranda, Quebec, while major oxides and lithochemical analyses were done by XRAL Laboratories in Toronto, Ontario. Detailed descriptions of the analytical methods are included in Appendix III and the results are tabulated in Appendix IV.

Downhole Pulse EM

Downhole Pulse EM surveys were completed in drill holes L95-8ext and L00-02. Surveying of the holes was completed between February 29 and March 6 by Val d'Or Sagax of Val d'Or (Quebec). The survey was completed with a three component time-domain EM system from Geonics. Collar loops, up to 1000 feet in length, were used to provide maximum coupling for locating steep south dipping conductors. A more detailed evaluation of this survey is provided in a report by consulting geophysicist P. Boileau presented in Appendix V.

EXPENDITURES

Exploration expenditures to March 31, 2000 by Teck Exploration Ltd. totalled \$102,850 and are summarized by category in Table 1.

TABLE 1
EXPENDITURES FOR WORK COMPLETED IN 2000

Drafting	\$ 1,808
General Labour	2,700
Geology	17,331
Geophysics	9,910
Drilling	53,790
Assays	2,260
Road Building	6,532
Fees, Licenses and Permits	586
Rentals and Leases – premises	550
Rentals and Leases- field equipment	1,950
Maintenance field equipment	1,206
Courier and Postage	159
Maps and Prints	166
Field Supplies	216
Travel – transportation	2,000
Travel – accommodation	1,686
Total	\$ 102,850

RESULTS

Diamond Drilling

Hole L95-8ext

The original drill hole, drilled in 1995 by Soquem and located 3.6 miles northwest of the mine, was stopped in altered felsic volcanic rocks just after intersecting the H/W Exhalite (Drawing 7382). This drill hole was extended in order to target the interpreted location of the Lemoine mine horizon or F/W Exhalite and the Lower Zinc Zone. Surface geological mapping and sampling of the area identified strongly altered rhyolites with stringer sulphide mineralization.

Hole L95-8ext was extended from its original length of 1908.8 feet to 3048.7 feet. It intersected a mixture of rhyolites and quartz-feldspar porphyries with lesser mafic dykes. A short interval of semi-massive magnetite within a quartz-feldspar porphyry was intersected between 2201.6 and 2203.5 feet down the hole. The magnetite, though roughly at the inferred position of the Lemoine mine horizon, appears to be an alteration affect related to the Dore Lake Complex. The lower portion of the hole included locally silicified and chloritized rhyolites. No significant sulphide mineralization was encountered.

Hole V6-76 ext

The original drill hole, drilled in 1979 by Patino Mines and located 2.2 miles northwest of the Lemoine mine, was stopped in altered felsic volcanic rocks just after intersecting the H/W Exhalite (Drawing 7383). The drill hole was extended in 2000 in order to intersect the Lemoine mine horizon or F/W Exhalite and the Lower Zinc Zone. Whole-rock analysis of nearby hole GS-38, also indicated that strongly altered rhyolites with anomalous zinc mineralization occurred in the area.

The drill hole was extended from 1283 to 1966.7 feet and intersected alternating felsic volcanics and mafic intrusive to volcanic rocks. This hole encountered the most significant sulphide mineralization intersected during the 2000 drill program. The best intersection was 2.03% Cu over 1 foot associated with a quartz-carbonate vein in rhyolites. Also of significance was a section of finely disseminated sphalerite and pyrite in the lower portion of the hole which yielded an assay of 1367 ppm Zn over 15 feet in the inferred area of the Lower Zinc Zone.

Hole L00-01

The hole was drilled to test a coincidental strong DeepEM and MaxMin anomaly in the northeastern end of the property. This conductor is located along strike of stringer sulphide mineralization identified in the area of Rusty Ridge and which included widespread, anomalous copper mineralization.

The drill hole collared in rhyolites and quartz-feldspar porphyries of the Waconichi Formation before coring through gabbros and altered quartz-gabbros or Border Zone of the Dore Lake Complex (Drawing 7384). The source of the DeepEM conductor was identified as 1 to 2% stringers and veins of pyrite, chalcopyrite and pyrrhotite located between 433 and 561 feet down the hole. Several sections with anomalous Cu mineralization, as high as 2940 ppm Cu over 3.9 feet, were intersected. This style of mineralization, though not unusual for the Border Zone of the intrusive, does not have potential for economic sulphide mineralization.

Hole L00-02

This drill hole targeted the "Southwest Alteration Zone" located 2.7 miles southwest of the Lemoine mine. The targets included a Melis anomaly, a frequency type EM response, which was coincident with a weak DeepEM anomaly and the downdip extension of strongly altered rhyolites with anomalous Zn-Cu mineralization (1.12% Cu and 5.36% Zn over 1 foot).

The source of the Melis and DeepEM conductor was identified as a zone of strongly fractured and sheared sediments (Drawing 7385). Strongly altered rhyolites were intersected in the lower portion of the hole. However, the only significant sulphide mineralization was intersected in the sedimentary rocks, approximately 200 feet above the contact with the felsic volcanics. The highest assay included 1960 ppm Zn over 3.0 feet.

TABLE 2
DIAMOND DRILLING STATISTICS, 2000

Hole No.	Easting (ft)	Northing (ft)	Azimuth	Dip	From (ft)	To (ft)	Length (ft)
L95-8ext	138+90E	0+65S	328	-74	1908.8	3048.7	1139.9
V6-76ext	64+00E	1+50S	332	-60	1283.0	1966.7	683.7
L00-01	184+00E	26+00N	333	-45	0.0	659.3	659.3
L00-02	196+00W	32+00S	332	-50	0.0	974.2	974.2

TABLE 3
SIGNIFICANT ASSAYS, 2000

Hole No.	From (ft)	To (ft)	Length (ft)	Cu (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)
L95-8ext	No	Significant	Assays				
V6-76ext	1636.0	1637.0	1.0	20 340	1020	40.0	29
V6-76ext	1761.0	1776.0	15.0	227	1367	1.3	9
L00-01	484.3	488.2	3.9	2940	47	0.4	23
L00-01	511.9	513.6	1.7	1280	22	1.6	37
L00-01	558.0	561.0	3.0	1275	53	1.1	23
L00-02	361.0	364.0	3.0	89	1960	1.0	4
L00-02	377.0	383.0	6.0	88	1163	1.0	3

Geochemistry

A total of 35 samples were systematically taken from drill core for whole-rock analysis. This allowed characterization of the different volcanic and intrusive rocks and evaluation of alteration trends through bulk chemistry methods. The degree of alteration was monitored with relative enrichment-depletion patterns of mobile elements typical of gold and volcanogenic massive sulphide deposits.

Alteration trends, using Na₂O and CaO depletion and K₂O, MgO and FeO enrichment, indicate that strongly altered felsic volcanic rocks (Ishikawa >80) are present in holes L95-8, L00-01 and L00-02. Strong chlorite alteration was identified in hole L95-8, at a depth of 2783 feet down the hole. This alteration is roughly at the projected location of the Lower Zinc Zone. Strong alteration was identified in rhyolites of hole L00-01, at a depth of 25 feet down the hole. Previous mapping had not identified any rhyolites in the area. Strong alteration is associated with the rhyolites in the lower portion of hole L00-02. This alteration forms part of the large "Southwest Alteration Zone" as identified from outcrops and previous drilling. Anomalous zinc mineralization, up to 741 ppm and 820 ppm, was identified from the whole rock samples taken of the rhyolites in hole L00-02.

Downhole Pulse EM

Downhole PulseEM surveys were completed in holes, L95-8ext and L00-02. Attempts to survey hole V6-76ext failed due to caving in the upper part of the hole. Hole L00-01 was not surveyed because of its shallow depth, the unfavourable geological setting and because the DeepEM conductor was adequately explained by diamond drilling.

A large “in-hole” response was outlined in hole L95-8ext, between 1345 and 1607 feet down the hole, at the inferred position of the H/W Exhalite. The “in-hole” response is likely produced by three separate conductive sulphide horizons. These sulphide horizons, composed mainly of pyrite and pyrrhotite, were intersected during the initial drilling of the hole by Soquem, and are located at the contact of Waconichi rhyolites and the Gilman mafic volcanics.

No significant downhole EM response was detected in hole L00-02

CONCLUSIONS

No economic base metal sulphide mineralization was intersected in the 2000 diamond drilling program.

The extension of the two previously drilled holes has provided a more complete cross-section of the Waconichi Formation. Although anomalous Cu and Zn mineralization is present in the holes, no priority targets are defined in the vicinity of the holes at this time.

The source of the DeepEM conductor and associated MaxMin anomaly located near the contact of the Border Zone of the Dore Lake Complex and felsic volcanics appears typical of the stringer style sulphides associated with the Dore Lake Complex. It is not thought to be of potential economic significance.

Although significant hydrothermal alteration and anomalous zinc mineralization are present in the felsic volcanic rocks of hole L00-02, no conductive sulphide mineralization was identified within the range of the Pulse EM survey.

RECOMMENDATIONS

No further follow-up work is proposed on the targets tested by the 2000 drilling program. However, lower priority targets recommended in report 1331NB (Martin, 1999) remain.

Respectfully submitted,

TECK EXPLORATION LTD.

A handwritten signature in black ink, appearing to be 'L. Martin', written over a faint, illegible stamp or watermark.

L. Martin

March 31, 2000

REP-0275/ec

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APPENDIX I
CLAIM LIST

APPENDIX I**CLAIM LIST****LEMOINE (167700)**

Claim Number	Township	Claim Size (acres)	Recording Date	Expiry Date
CL 3177371	Lemoine	40.0	3-Aug-89	2-Aug-01
CL 3177372	Lemoine	40.0	3-Aug-89	2-Aug-01
CL 3177373	Lemoine	40.0	3-Aug-89	2-Aug-01
CL 3177374	Lemoine	40.0	3-Aug-89	2-Aug-01
CL 3177591	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177592	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177593	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177594	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177595	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177601	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177602	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177603	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177604	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3177605	Lemoine	40.0	8-Jan-89	7-Jan-01
CL 3223595	Lemoine	40.0	3-Aug-89	2-Aug-01
CL 3223601	Lemoine	9.4	3-Aug-89	2-Aug-01
CL 3223602	Lemoine	11.0	3-Aug-89	2-Aug-01
CL 3223603	Lemoine	27.2	3-Aug-89	2-Aug-01
CL 3223621	Lemoine	40.0	3-Aug-89	2-Aug-01
CL 3223622	Lemoine	40.0	3-Aug-89	2-Aug-01
CL 3223753	Lemoine	28.9	3-Aug-89	2-Aug-01
CL 3223755	Lemoine	0.2	3-Aug-89	2-Aug-01
CL 3283241	Lemoine	40.0	21-Apr-89	20-Apr-01
CL 3283242	Lemoine	40.0	21-Apr-89	20-Apr-01
CL 3283243	Lemoine	40.0	21-Apr-89	20-Apr-01
CL 3283244	Lemoine	40.0	21-Apr-89	20-Apr-01
CL 3283245	Lemoine	40.0	21-Apr-89	20-Apr-01
CL 3283801	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283802	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283803	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283804	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283805	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283811	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283812	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283813	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283814	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283815	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283821	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283822	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283823	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283824	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283825	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283831	Lemoine	40.0	20-Apr-89	19-Apr-01

Claim Number	Township	Claim Size (acres)	Recording Date	Expiry Date
CL 3283832	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283833	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283834	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283835	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283841	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283842	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283843	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283844	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283845	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283851	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283852	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283853	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283854	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283855	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283861	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283862	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283863	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283864	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283871	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283872	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283873	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283874	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283881	Lemoine	17.5	17-Apr-89	16-Apr-01
CL 3283882	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283883	Lemoine	40.0	17-Apr-89	16-Apr-01
CL 3283885	Lemoine	33.1	17-Apr-89	16-Apr-01
CL 3283891	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283892	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283894	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283895	Lemoine	40.0	18-Apr-89	17-Apr-01
CL 3283901	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283902	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283903	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283904	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283905	Lemoine	40.0	19-Apr-89	18-Apr-01
CL 3283911	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283912	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283913	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283914	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3283915	Lemoine	40.0	20-Apr-89	19-Apr-01
CL 3284071	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284072	Lemoine	40.0	24-Apr-89	23-Apr-01
CL 3284073	Lemoine	40.0	24-Apr-89	23-Apr-01
CL 3284074	Lemoine	40.0	24-Apr-89	23-Apr-01
CL 3284075	Lemoine	40.0	24-Apr-89	23-Apr-01
CL 3284211	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284212	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284214	Lemoine	40.0	26-Apr-89	25-Apr-01

Claim Number	Township	Claim Size (acres)	Recording Date	Expiry Date
CL 3284215	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284231	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284232	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284233	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284234	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284235	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284251	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284252	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284253	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284254	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284255	Lemoine	40.0	26-Apr-89	25-Apr-01
CL 3284263	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284264	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284265	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284281	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284282	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284283	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284284	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284285	Lemoine	40.0	25-Apr-89	24-Apr-01
CL 3284331	Lemoine	40.0	30-Apr-89	29-Apr-01
CL 3284332	Lemoine	40.0	30-Apr-89	29-Apr-01
CL 3284333	Lemoine	40.0	30-Apr-89	29-Apr-01
CL 3284334	Lemoine	40.0	30-Apr-89	29-Apr-01
CL 3284335	Lemoine	40.0	30-Apr-89	29-Apr-01
CL 3284341	Lemoine	40.0	1-May-89	30-Apr-01
CL 3284342	Lemoine	40.0	1-May-89	30-Apr-01
CL 3284343	Lemoine	40.0	1-May-89	30-Apr-01
CL 3284344	Lemoine	40.0	5-May-89	4-May-01
CL 3284345	Lemoine	40.0	5-May-89	4-May-01
CL 3284551	Lemoine	40.0	12-May-89	11-May-01
CL 3284552	Lemoine	40.0	12-May-89	11-May-01
CL 3284561	Lemoine	40.0	12-May-89	11-May-01
CL 3284562	Lemoine	40.0	12-May-89	11-May-01
CL 3284563	Lemoine	40.0	12-May-89	11-May-01
CL 3284564	Lemoine	40.0	12-May-89	11-May-01
CL 3284565	Lemoine	40.0	12-May-89	11-May-01
CL 3383185	Lemoine	40.0	26-Sep-89	25-Sep-01
CL 3383191	Lemoine	40.0	27-Sep-89	26-Sep-01
CL 3383204	Lemoine	40.0	28-Sep-89	27-Sep-01
CL 3383205	Lemoine	40.0	28-Sep-89	27-Sep-01
CL 3383231	Lemoine	40.0	28-Sep-89	27-Sep-01
CL 3383232	Lemoine	40.0	28-Sep-89	27-Sep-01
CL 3383233	Lemoine	40.0	28-Sep-89	27-Sep-01
CL 3383234	Lemoine	40.0	28-Sep-89	27-Sep-01
CL 3383235	Lemoine	40.0	28-Sep-89	27-Sep-01
CL 3400122	Lemoine	40.0	10-Oct-89	9-Oct-01
CL 3400123	Lemoine	40.0	10-Oct-89	9-Oct-01
CL 3400124	Lemoine	40.0	10-Oct-89	9-Oct-01

Claim Number	Township	Claim Size (acres)	Recording Date	Expiry Date
CL 3400125	Lemoine	40.0	10-Oct-89	9-Oct-01
CL 3400131	Rinfret	40.0	11-Oct-89	10-Oct-01
CL 3400132	Rinfret	40.0	11-Oct-89	10-Oct-01
CL 3400134	Lemoine	40.0	11-Oct-89	10-Oct-01
CL 3739421	Lemoine	40.0	16-Oct-89	15-Oct-01
CL 3739422	Lemoine	40.0	16-Oct-89	15-Oct-01
CL 3739423	Lemoine	40.0	16-Oct-89	15-Oct-01
CL 3739424	Lemoine	40.0	16-Oct-89	15-Oct-01
CL 3739425	Lemoine	40.0	16-Oct-89	15-Oct-01
CL 3739431	Lemoine	40.0	16-Oct-89	15-Oct-01
CL 3746571	Lemoine	40.0	9-Nov-88	8-Nov-00
CL 3748981	Lemoine	40.0	31-Oct-88	31-Oct-00
CL 3748983	Lemoine	40.0	31-Oct-88	31-Oct-00
CL 3748985	Lemoine	40.0	31-Oct-88	31-Oct-00
CL 3748992	Lemoine	40.0	2-Nov-88	1-Nov-00
CL 3748994	Lemoine	40.0	2-Nov-88	1-Nov-00
CL 4533401	Lemoine	40.0	6-Jan-89	5-Jan-01
CL 4533402	Lemoine	40.0	6-Jan-89	5-Jan-01
CL 4533403	Lemoine	40.0	6-Jan-89	5-Jan-01
CL 4533404	Lemoine	40.0	6-Jan-89	5-Jan-01
CL 4591121	Lemoine	40.0	30-Jun-89	29-Jun-01
CL 4591122	Lemoine	40.0	30-Jun-89	29-Jun-01
CL 4591123	Lemoine	40.0	30-Jun-89	29-Jun-01
CL 4591124	Lemoine	40.0	30-Jun-89	29-Jun-01
CL 4591125	Lemoine	40.0	30-Jun-89	29-Jun-01
CL 4591131	Lemoine	40.0	1-Jul-89	30-Jun-01
CL 4591132	Lemoine	40.0	1-Jul-89	30-Jun-01
CL 4665211	Lemoine	40.0	10-Dec-88	9-Dec-00
CL 4665212	Lemoine	40.0	10-Dec-88	9-Dec-00
CL 4665213	Lemoine	40.0	10-Dec-88	9-Dec-00
CL 4665214	Lemoine	40.0	10-Dec-88	9-Dec-00
CL 4665215	Lemoine	40.0	10-Dec-88	9-Dec-00
CL 4665221	Lemoine	40.0	11-Dec-88	10-Dec-00
CL 4665222	Lemoine	40.0	11-Dec-88	10-Dec-00
CL 5081919	Lemoine	40.0	15-Dec-92	14-Dec-00
CL 5081920	Lemoine	40.0	15-Dec-92	14-Dec-00
CL 5081921	Lemoine	40.0	15-Dec-92	14-Dec-00
CL 5081922	Lemoine	40.0	15-Dec-92	14-Dec-00
CL 5081923	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081924	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081925	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081926	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081927	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081928	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081929	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081930	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081931	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081932	Rinfret	40.0	15-Dec-92	14-Dec-00

Claim Number	Township	Claim Size (acres)	Recording Date	Expiry Date
CL 5081933	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081934	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081935	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081936	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081937	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081938	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081939	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081940	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081941	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081942	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081943	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081944	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081945	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081946	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081947	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081948	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081949	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5081950	Rinfret	40.0	15-Dec-92	14-Dec-00
CL 5205525	Lemoine	40.0	21-Dec-98	20-Dec-00
CL 5205526	Lemoine	40.0	21-Dec-98	20-Dec-00
CL 5205527	Lemoine	40.0	21-Dec-98	20-Dec-00
CL 5205528	Lemoine	40.0	21-Dec-98	20-Dec-00
CL 5205529	Lemoine	40.0	21-Dec-98	20-Dec-00
CL 5205530	Lemoine	40.0	22-Dec-98	21-Dec-00
CL 5205531	Lemoine	40.0	22-Dec-98	21-Dec-00
CL 5205532	Lemoine	40.0	22-Dec-98	21-Dec-00
CL 5205533	Dollier	40.0	21-Dec-98	20-Dec-00
CL 5205534	Dollier	40.0	21-Dec-98	20-Dec-00
CL 5205535	Dollier	40.0	21-Dec-98	20-Dec-00
CL 5205536	Dollier	40.0	21-Dec-98	20-Dec-00
CL 5205537	Dollier	40.0	21-Dec-98	20-Dec-00
CL 5205538	Dollier	40.0	22-Dec-98	21-Dec-00
CL 5205539	Dollier	40.0	22-Dec-98	21-Dec-00
CL 5205540	Dollier	40.0	22-Dec-98	21-Dec-00
CL 5205541	Dollier	40.0	22-Dec-98	21-Dec-00
CL 5205542	Dollier	40.0	22-Dec-98	21-Dec-00
CL 5205543	Dollier	40.0	23-Dec-98	22-Dec-00
CL 5205544	Dollier	40.0	23-Dec-98	22-Dec-00
CL 5228799	Dollier	40.0	19-Apr-99	18-Apr-01
CL 5228800	Dollier	40.0	19-Apr-99	18-Apr-01
CL 5228801	Dollier	40.0	19-Apr-99	18-Apr-01
CL 5228802	Lemoine	40.0	19-Apr-99	18-Apr-01
CL 5228803	Lemoine	184.9	17-Sep-99	16-Sep-01
CL 5228804	Lemoine	40.0	17-Sep-99	16-Sep-01
CL 5228805	Lemoine	40.0	17-Sep-99	16-Sep-01
CL 5228806	Lemoine	30.2	17-Sep-99	16-Sep-01

233 Claims

9215 acres

APPENDIX II
DIAMOND DRILL LOGS

**TECK EXPLORATION
DIAMOND DRILL LOG**

Hole Number L95-8

Page 1 of 1 Header

Project Number 167700 NTS 32G16

Objective Extension of previous hole to test the Lemoine mine horizon and the Lower Zinc Zone horizon. Drill hole was extended from 1908.8 ft to 3048.7 ft.

Project Name Lemoine

Drilling Company Forage M. Rouillier Inc.

Township/Area Lemoine

Start Date (m/d/y) 2/ 9/00

Claim Number 3177603, 3177602

Finish Date 2/16/00

UTM Zone 18

Geologist L. MARTIN

UTM Easting (m) 569513.8

Date Logged (m/d/y) 2/16/00

UTM Northing (m) 5515053.2

Hole Length 3048.7 feet

Grid Identifier Surface

Core Location Chibougamau

Easting (+E,-W) 13890

Distance to Water 200 feet

Northing (+N,-S) -65

Casing Lost

Elevation:

Core Size BQ

Thursday, March 02, 2000

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

<i>Project Number</i>	<i>Hole Number</i>	<i>Depth (ft)</i>	<i>Azimuth (d)</i>	<i>Dip (d)</i>
167700	L95-8	2227.1		-39
		2355		-36
		2640.4		-32
		2714.2	346	-28
		2850.3		-28
		2907.7	342	-25
		2981.5		-25

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

Geology Summary

<i>Project Number</i>	<i>Hole Number</i>	<i>From (ft)</i>	<i>To (ft)</i>	<i>Rock Code</i>	<i>Rock Names</i>
167700	L95-8	0	1908.8		
		1908.8	1950.8	V1B	RHYOLITE
		1950.8	2411.3	QFP	QUARTZ-FELDSPAR PORPHYRY
		2411.3	2684.4	V1B	RHYOLITE (granular)
		2684.4	2726.6	V1B sil	RHYOLITE (silicified)
		2726.6	2799.5	V1B chl	RHYOLITE (chloritized)
		2799.5	2898.7	V3 / I3	BASALT / GABBRO
		2898.7	3037.6	V1B	RHYOLITE
		3037.6	3048.7	QFP	QUARTZ-FELDSPAR PORPHYRY
		3048.7	3048.7	EOH	END OF HOLE

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L95-8

Hole Number L95-8

<i>From</i>	<i>To</i>	<i>Rock Code</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag(ppm)</i>
0	1908.8			Hole extended from previous drilling.									
1908.8	1950.8	RHYOLITE		Unit has a homogenous appearance. Moderately developed foliation at 65 dca. Medium grey colour with fine black bands. Fine grained. Non magnetic. Dark colour due to weak chlorite alteration. Trace to rare pyrite.									
		V1B		M07615 WRA 1922.0 - 1932.0 1936.4 1940.6 Mafic Dyke D3 Coarser grained, more of a medium grained material. 3% carbonate veining. Non magnetic.									

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L95-8

Hole Number L95-8

<i>From</i>	<i>To</i>	<i>Rock Code</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag(ppm)</i>
	2406.4	2408.1		Mafic Dyke									D3
	Sharp contacts at 60 dca. Strongly magnetic.												

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L95-8

Hole Number L95-8

<i>From</i>	<i>To</i>	<i>Rock Code</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag(ppm)</i>
2411.3	2684.4	RHYOLITE (granular)		Massive with a granular to locally porphyritic appearance. Texture varies from a weak spotty to fragmental look. Local slightly blueish qtz phenocrysts. The qtz phenocrysts are smaller and less abundant, 1-2%, than the above described QFP unit. Host rock is a medium to dark greyish green colour, fairly dark for a rhyolite. Moderate chlorite alteration ? Based on the colour. Weakly magnetic, varies from non to moderate in intensity. Less magnetic than the QFP unit. 1-2% small and erratic qtz-carb veins. Weakly developed foliation at 70 dca. Trace to rare disseminated pyrite.	M07707	2465.2	2470.9	5.70	4	32		1	0.6
					M07708	2646.5	2650	3.50	35	47		2	0.7
				M07620 WRA 2490 - 2500 M07621 WRA 2600 - 2610									
		V1B		2411.3 2510.9 Crystal Tuff V1B TxI 2-5% blueish qtz eyes or phenocrysts, smaller (1-3mm) than the typical QFP unit. Unit has a darker coloured									
				2510.9 2513.4 Mafic Dyke D3 Dark green colour, fine grained, trace pyrite. Non magnetic. Sharp contacts at 50 to 70 dca.									
				2427.1 2428 Mafic Dyke D3									
				2525 2528.1 Mafic Dyke D3									
				2536.9 2537.9 Mafic Dyke D3									
				2540.5 2541.5 Mafic Dyke D3									
				2547.7 2550 Mafic Dyke D3									
				2560 2561.6 Mafic Dyke D3									
				2617.9 2621.1 Mafic Dyke D3									

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L95-8

Hole Number L95-8

<i>From</i>	<i>To</i>	<i>Rock Code</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag (ppm)</i>
2624	2625			Mafic Dyke									
2682	2684.4			Mafic Dyke									
2684.4	2726.6		RHYOLITE (silicified)	Lighter greyish green colour, moderately silicified. Silicification is patchy and locally strong. Host rock is finer grained than above and more of a mottled texture. Presence of 2-3% small qtz eyes or phenocrysts. Non magnetic, less so than the rhyolite above. Possible minor lapilli size clasts. Weak foliation at 65 to 70 dca. Rare disseminated pyrite. Weakly defined contacts, gradational.									
		V1B sild			M07622 WRA 2700 - 2710								
2726.6	2799.5		RHYOLITE (chloritized)	Chloritized rhyolite? Darker greyish green colour, locally black. Local moderate to strong black chlorite alteration. Slight increase in the sulphide content compared to the surrounding rhyolites, 1% disseminated pyrite. Massive appearance to weakly foliated at 60 to 80 dca. Minor small qtz phenocrysts, up to 1 mm in size. Non magnetic. Rare veining.									
		V1B chl			2789.7 2799.5 brecciated								
					Unit has a more brecciated appearance, crackle breccia. Possible cooling feature.								

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L95-8

Hole Number L95-8

<i>From</i>	<i>To</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag(ppm)</i>
3037.6	3048.7	QUARTZ-FELDSPAR PORPHYRY	Unit is distinctive by the presence of 10-15% subhedral iridescent blue qtz phenocrysts, 3-5mm in size. Up to 5% subhedral feldspar phenocrysts, 1-5mm in size. Matrix is a medium greyish green colour, moderately magnetic.									
		QFP	M07626 WRA 3038 - 3048 3046.4 3048.6 Quartz Vein Bull white, no sulphides.				VQ					
3048.7	3048.7	END OF HOLE EOH										

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

<i>Sample No.</i>	<i>Au (ppb)</i>	<i>Au (g/t)</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Ag (ppm)</i>
<i>Project Number:</i>		167700				
<i>Hole Number:</i>		L95-8				
<i>M07701</i>	1		101	134		0.9
<i>M07702</i>	1		46	97		1.3
<i>M07703</i>	1		14	31		0.6
<i>M07704</i>	2		168	122		1.2
<i>M07705</i>	8		12	33		0.7
<i>M07706</i>	1		14	19		0.6
<i>M07707</i>	1		4	32		0.6
<i>M07708</i>	2		35	47		0.7
<i>M07709</i>	2		91	179		0.6
<i>M07710</i>	2		120	94		0.3
<i>M07711</i>	1		74	67		0.2
<i>M07712</i>	10		60	78		0.2
<i>M07713</i>	6		93	56		0.3

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

Hole Number V6-76

Page 1 of 1 Header

Project Number	167700	NTS	32G/16	Objective	Extension of a previous hole in order to test the stratigraphy below the FW chert horizon and possible continuation of the Lower Zinc Zone.
Project Name	Lemoine			Drilling Company	Forage M. Rouillier
Township/Area	Lemoine			Start Date (m/d/y)	2/20/00
Claim Number	3283912, 3284265			Finish Date (m/d/y)	2/24/00
UTM Zone	18			Geologist	L. MARTIN
UTM Easting (m)		567545.4		Date Logged (m/d/y)	2/24/00
UTM Northing (m)		5513990.6		Hole Length	1966.7
Grid Identifier	Surface			Core Location	Chibougamau
Easting (+E,-W)	6400			Distance to Water	300
Northing (+N,-S)	-150			Casing Lost	30
Elevation:				Core Size	AQ

Thursday, March 09, 2000

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

<i>Project Number</i>	<i>Hole Number</i>	<i>Depth (ft)</i>	<i>Azimuth (d)</i>	<i>Dip (d)</i>
167700	V6-76	1418		-28
		1552		-25
		1948		-18

Thursday, March 09, 2000

Page 1 of 1 Surveys

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

Geology Summary

<i>Project Number</i>	<i>Hole Number</i>	<i>From (ft)</i>	<i>To (ft)</i>	<i>Rock Code</i>	<i>Rock Names</i>
167700	V6-76	0	1283		
		1283	1356.2	I3	GABBRO
		1356.2	1374.4	V1B Txl	RHYOLITE, CRYSTAL TUFF
		1374.4	1418.7	V1B chl	RHYOLITE chloritic
		1418.7	1464	V3, T3	MAFIC VOLCANIC, GABBRO
		1464	1512.3	V1B Txl	RHYOLITE, CRYSTAL TUFF
		1512.3	1624	I3, V3	GABBRO, MAFIC VOLCANIC
		1624	1650.7	V1B	RHYOLITE
		1650.7	1687.6	V3	MAFIC VOLCANIC
		1687.5	1747.5	V1B Tal	RHYOLITE, LAPILLI TUFF
		1747.5	1786	V1B Txl	RHYOLITE, CRYSTAL TUFF
		1786	1966.7	I3	GABBRO
		1966.7	1966.7	EOH	END OF HOLE

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

V6-76

Hole Number

V6-76

Rock Type		Geology	Sample No.	From	To	Length	Cu (ppm)	Zn (ppm)	Pb (ppm)	Au (ppb)	Ag (ppm)
From	To										
1624	1650.7	RHYOLITE									
			M07765	1631	1636	5.00	81	134		2	0.8
			M07766	1636	1637	1.00	20340	1020		31	39.5
			M07767	1637	1642	5.00	93	110		2	0.8
			M07639 WRA 1642.8 - 1650.5								
		V1B	1636.3	1637.7	chalcopyrite	cpy	Quartz-carbonate vein with 25% cpy and 3% po. Vein is oriented at 50-60 dca.				
1650.7	1687.6	MAFIC VOLCANIC									
			Dark green colour, fine grained. Massive to weakly foliated at 70-75 dca. Unit is distinctive by its darker colour and increase in the qtz-carb veining, 2-4%. Presence of 1% po and trace py, disseminated and as fine wisps. More mineralized than most units. Sharp lower contact at 70 dca.								
		V3	1657.5	1659.2	RHYOLITE	V1B	Dark grey colour.				
			1662	1664.8	RHYOLITE	V1B	Dark grey colour.				
1687.5	1747.5	RHYOLITE, LAPILLI TUFF									
			Dark grey colour, fairly mottled and inhomogenous texture. Variable alteration, possible lapilli clasts. Tuffaceous appearance. Local strong biotite alteration. Variable weak to moderate sericite in the matrix while the clasts are more siliceous. Rare to no veining. Weak foliation at 70 dca. Non magnetic. Trace to rare disseminated po.								
			M07640 WRA 1717 - 1727								
		V1B Tal	1737.2	1747.5	Fracture zone	frcz	Strongly broken core.				

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

V6-76

Hole Number V6-76

<i>From</i>	<i>To</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag(ppm)</i>
1747.5	1786	RHYOLITE, CRYSTAL 1-2% finely disseminated and wisps of py, sph, cpy, and py. TUFF		M07768	1751	1756	5.00	63	116		6	0.8
			Medium to dark grey colour, massive and very homogenous texture. Fine grained to slightly granular appearance. Coarse ash tuff? Presence of 2-4% very fine, <1mm qtz crystals or qtz eyes. Non magnetic. Rare to no veining. One of the best	M07769	1756	1761	5.00	51	310		2	0.6
				M07770	1761	1766	5.00	66	1600		1	0.9
				M07771	1766	1771	5.00	98	1300		6	1.6
				M07772	1771	1776	5.00	516	1200		20	1.3
				M07773	1776	1781	5.00	67	850		5	0.7
				M07774	1781	1786	5.00	78	529		7	1
		V1B Tx1										
1786	1966.7	GABBRO	Medium to coarse grained intrusive. Fresh appearance, massive, homogenous and equigranular. Varies locally from non magnetic to moderately magnetic, patchy. Minor qtz-carb veins, 1%. Trace blebs and narrow veinlets of po.	M07775	1786	1791	5.00	23	290		10	1.1
				M07776	1791	1796	5.00	42	242		2	1.3
				M07777	1796	1801	5.00	53	258		6	1.3
			M07641 WRA 1886 - 1896	M07778	1801	1806	5.00	67	203		3	1
		I3	1786 1821 Fine to medium grained gabbro with up to 1% blebs of po within carbonate									
1966.7	1966.7	END OF HOLE										
		EOH										

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

<i>Sample No.</i>	<i>Au (ppb)</i>	<i>Au (g/t)</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Ag (ppm)</i>
<i>Project Number:</i>		167700				
<i>Hole Number:</i>		V6-76				
<i>M07759</i>	5		467	43		1.3
<i>M07760</i>	3		50	41		1
<i>M07761</i>	2		77	92		1.5
<i>M07762</i>	8		16	39		0.6
<i>M07763</i>	2		9	100		1.6
<i>M07764</i>	3		37	103		1.6
<i>M07765</i>	2		81	134		0.8
<i>M07766</i>	31		20340	1020		39.5
<i>M07767</i>	2		93	110		0.8
<i>M07768</i>	6		63	116		0.8
<i>M07769</i>	2		51	310		0.6
<i>M07770</i>	1		66	1600		0.9
<i>M07771</i>	6		98	1300		1.6
<i>M07772</i>	20		516	1200		1.3
<i>M07773</i>	5		67	850		0.7
<i>M07774</i>	7		78	529		1
<i>M07775</i>	10		23	290		1.1
<i>M07776</i>	2		42	242		1.3
<i>M07777</i>	6		53	258		1.3
<i>M07778</i>	3		67	203		1

**TECK EXPLORATION
DIAMOND DRILL LOG**

Hole Number L00-01

Page 1 of 1 Header

Project Number 167700 **NTS** 032G16

Project Name Lemoine

Township/Area Lemoine

Claim Number 3177372

UTM Zone 18

UTM Easting (m) 570423.6

UTM Northing (m) 5516435.1

Grid Identifier Surface

Easting (+E,-W) 18400

Northing (+N,-S) 2600

Elevation:

Objective Test a strong DeepEM conductor

Drilling Company Forage M. Rouillier

Start Date (m/d/y) 2/17/00

Finish Date 2/19/00

Geologist L. MARTIN

Date Logged (m/d/y) 2/19/00

Hole Length 659.3 feet

Core Location Chibougamau

Distance to Water 3500 feet

Casing Lost 17 feet

Core Size BQ

Thursday, March 02, 2000

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

<i>Project Number</i>	<i>Hole Number</i>	<i>Depth (ft)</i>	<i>Azimuth (d)</i>	<i>Dip (d)</i>
167700	L00-01	0	332	-45
		20		-43
		206		-42
		331	341	-42
		338		-43
		466		-41
		600		-40
		649		-39

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

Geology Summary

<i>Project Number</i>	<i>Hole Number</i>	<i>From (ft)</i>	<i>To (ft)</i>	<i>Rock Code</i>	<i>Rock Names</i>
167700	L00-01	0	17	Ovb	OVERBURDEN
		17	38.1	V1B, Txl	RHYOLITE, CRYSTAL TUFF
		38.1	61.7	I3 / V3	GABBRO, BASALT
		61.7	159.7	QFP	QUARTZ-FELDSPAR PORPHYRY
		159.7	211.6	I3 BZ	GABBRO - BORDER ZONE
		211.6	261.3	I2	DIORITE
		261.3	433.2	I3 BZ	GABBRO - BORDER ZONE
		433.2	659.3	I3 BZ mag	GABBRO - BORDER ZONE (magnetic)
		659.3	659.3	EOH	END OF HOLE

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

<i>Project Number</i>	<i>Hole Number</i>	<i>Depth (ft)</i>	<i>Azimuth (d)</i>	<i>Dip (d)</i>
167700	L00-02	0	332	-50
		295	334	-46
		642		-42
		836	330	-40
		970	331	-38

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-01

Hole Number L00-01

<i>From</i>	<i>To</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag (ppm)</i>
0	17	OVERBURDEN	Casing left in the hole.									
		Ovb										
17	38.1	RHYOLITE, CRYSTAL TUFF	Light to medium greyish green colour. Weakly porphyritic appearance with 2-4% small, (1-2mm) slightly blueish quartz crystals or phenocrysts. Matrix is a lighter colour than the surrounding mafic flows / intrusions. Unit has a slight medium grained to granular appearance. Weak to moderately developed foliation at 60 to 65 dca. Non magnetic. No sulphide mineralization.									
		V1B, Txl		M07627	WRA	20 - 30						
				24.8	24.9	Fault	ft					
				33.5	33.6	Fault	ft					
				At 60 -70 dca.								
				38	38.1	Fault	ft					
				At 65 dca.								
38.1	61.7	GABBRO, BASALT	Possible intrusion, local finer grained sections which are more flow like. Dark green colour, varies from medium grained to very fine grained. Weak foliation at 60 - 65 dca. Rare qtz-carb veins, locally with minor epidote. Non magnetic. Rare to no sulphides.									
		I3 / V3		38.1	45	Basalt	V3					
				Dark green colour and fine grained. Poorly defined lower contact.								
				61.6	61.7	Fault	ft					
				At 60 -65 dca								

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700
Hole Number L00-01

From	To	Rock Type	Geology	Sample No.	From	To	Length	Cu (ppm)	Zn (ppm)	Pb (ppm)	Au (ppb)	Ag(ppm)
61.7	159.7	QUARTZ-FELDSPAR PORPHYRY	Unit is distinctive by the presence of 15% iridescent blue qtz phenocrysts. The phenocrysts are anhedral and 2 - 5 mm in size. The feldspar phenocrysts are difficult to identify in the upper part of the unit, best developed in the lower portion. Massive to very weakly foliated. Non magnetic, 2-4% bull white qtz veins, locally up to 3.4 feet in size. Trace to rare disseminated pyrite, mainly associated with the qtz veining.	M07714	124.5	127.9	3.40	4	8		4	0.2
		QFP	M07628 WRA 92 - 102 124.5 127.9 Quartz Vein vq Bull white qtz vein, erratic contacts. 127.9 159.7 Mixing Zone Mixing / contact zone consisting of equal parts of well developed qtz-feld porphyry material and sections of darker green finer grained mafic flows? Hard to tell which unit is the host and which is intruding.									
159.7	211.6	GABBRO - BORDER ZONE	Quartz-gabbro? Unit is distinctive by its very dark green to almost black colour. Coarse to medium grained with anhedral and poorly defined grain boundaries. Very dark matrix which hosts 5% slightly blueish qtz crystals and 5-10% light greyish white feldspars. Non magnetic. 2-3% bull white qtz veins. Weak foliation at 70 dca.	M07715	159.7	163.7	4.00	90	69		4	0.6
		I3 BZ	M07629 WRA 187 - 197 159.7 159.8 Fault fit local vuggy core material. 159.8 167.8 1-2% fine Po and Py, disseminated and as fine fracture fillings. Locally the sulphide mineralization is associated with later qtz-carb veining.	M07716	163.7	167.8	4.10	67	129		4	1

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-01

Hole Number

L00-01

Rock Type		Geology	Sample No.	From	To	Length	Cu (ppm)	Zn (ppm)	Pb (ppm)	Au (ppb)	Ag(ppm)	
From	To											Rock Code
211.6	261.3	DIORITE										
		Medium green colour, lighter than the units on either side. Unit is distinctive by the presence of medium grained, euhedral, equigranular feldspars and amphiboles and diabasic looking texture. It is a very fresh looking intrusive. No qtz phenocrysts are found in this unit, differs from what is seen on either side. Non magnetic. Minor qtz-carb veining. No sulphides. Finer grained contacts, possible chill margin from a dyke. Sharp contacts at 65 dca.										
		M07630 WRA 233 - 243										
		I2										
261.3	433.2	GABBRO - BORDER ZONE	M07718	367	369.2	2.20	39	63		4	0.6	
		Similar to the unit described from 159.7 to 211.6. Dark green colour, medium to coarse grained, locally 3 - 5% qtz phenocrysts. Non magnetic. Fairly dark coloured rock. Minor quartz veining, 2-5%. Rare pyrite and chalcopyrite. The foliation is very weak at 65 to 70 dca.	M07719	423	428	5.00	300	182		8	1.8	
			M07720	428	433.2	5.20	322	95		5	1.5	
		M07631 WRA 370 - 380										
		I3 BZ										
		345 347 Mafic Dyke D3										
		Dark green colour and fine grained. Sharp contacts at 40 to 70 dca.										
		359.2 360.3 Quartz Vein vq										
		Vein is at 15-25 dca and contains epidote alteration.										
		411.9 413.2 Mafic Dyke D3										
		425.4 428.6 Mafic Dyke D3										

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-01

Hole Number

L00-01

From	To	Rock Type	Geology	Sample No.	From	To	Length	Cu (ppm)	Zn (ppm)	Pb (ppm)	Au (ppb)	Ag(ppm)
433.2	659.3	GABBRO - BORDER ZONE (magnetic)	Similar to the above described unit. Unit differs by the presence of numerous stringers and veins with pyrite, chalcopyrite and pyrrhotite. Unit is also characterized by being moderate to strongly magnetic throughout. Sulphide mineralization consists of 1 to locally 5% pyrite, chalcopyrite and lesser pyrrhotite. Mineralization style is most commonly vein or fracture filling and less commonly disseminated. The mineralization is most commonly parallel to the foliation at 50 to 60 dca. Moderate to strongly magnetic. Matrix may be altered material, dark and chloritic.	M07721	433.2	436	2.80	24	52		9	0.9
				M07722	436	440	4.00	119	37		7	0.8
				M07723	440	445	5.00	193	39		9	0.7
				L07724	445	450	5.00					
				M07725	450	455	5.00	153	46		5	0.6
				M07726	455	460	5.00	106	50		5	0.7
				M07727	460	464.8	4.80	140	36		3	0.6
		M07632 WRA 452 - 462		M07728	464.8	469	4.20	166	58		5	0.9
		M07633 WRA 570 - 580		M07729	469	474.5	5.50	126	68		5	1
433.2	561	Mineralized.		minz	M07730	474.5	480	5.50	48	57	6	0.8
		1 to locally 5% Py, Cpy, Po			M07731	480	484.3	4.30	120	47	5	0.4
486.1	487.4	Quartz Vein		vq	M07732	484.3	488.2	3.90	2940	47	23	0.4
		Vein with 1-25 Py and Cpy along fractures. Vein contacts are irregular.			M07733	488.2	493	4.80	63	39	6	0.3
506.4	507.7	Quartz Vein		vq	M07734	493	498	5.00	25	35	4	0.6
		Good looking greyish white stockwork type vein composed of 60% qtz. Sulphides consist of 7% Po and 1% Py plus trace Cpy. Vein contacts at 65 dca.			M07735	498	502	4.00	61	31	2	0.6
511.9	513.6	Quartz Vein		vq	M07736	502	506.4	4.40	98	30	12	0.6
		Stockwork type with 6% Py, <1% Cpy. Veins are trending at 65 to 70 dca.			M07737	506.4	507.7	1.30	736	26	9	0.7
					M07738	507.7	511.9	4.20	106	36	5	0.7
548.6	550.8	Mafic Dyke	D3	M07739	511.9	513.6	1.70	1280	22	37	1.6	
		Dark green colour, fine grained. Sharp contacts at 70 dca.		M07740	513.6	519	5.40	35	42	5	0.9	
616	619	Intermediate Dyke	D2	M07741	519	523.5	4.50	24	41	4	0.6	
		Lighter green colour, medium grained. Fresh appearance with a diabasic looking texture.		M07742	523.5	528	4.50	166	33	19	0.6	
				M07743	528	533	5.00	43	56	6	0.8	
				M07744	533	538	5.00	41	46	5	0.7	
				M07745	538	543	5.00	16	25	4	0.5	
				M07746	543	547.5	4.50	402	28	25	1	

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-01

Hole Number L00-01

Rock Type		Geology	Sample No.	From	To	Length	Cu (ppm)	Zn (ppm)	Pb (ppm)	Au (ppb)	Ag(ppm)
From	To										
			M07747	547.5	553	5.50	29	57		5	1
			M07748	553	558	5.00	42	20		5	0.5
			M07749	558	561	3.00	1275	53		23	1.1
			M07750	561	565	4.00	20	60		3	1.1
			M07751	622	627.5	5.50	14	28		4	0.4
			M07752	627.5	634	6.50	68	28		3	0.5
			M07753	634	638	4.00	35	30		2	0.3
			M07754	638	642	4.00	387	33		4	0.8
			M07755	642	647	5.00	15	23		14	0.3
			M07756	647	652.5	5.50	12	27		2	0.3
			M07757	652.5	657	4.50	142	48		16	1.2
			M07758	657	659.3	2.30	16	35		1	0.6
		I3 BZ mag									
659.3	659.3	END OF HOLE									
		EOH									

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

<i>Sample No.</i>	<i>Au (ppb)</i>	<i>Au (g/t)</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Ag (ppm)</i>
<i>Project Number:</i>		167700				
<i>Hole Number:</i>		L00-01				
<i>M07714</i>	4		4	8		0.2
<i>M07715</i>	4		90	69		0.6
<i>M07716</i>	4		67	129		1
<i>M07717</i>	3		197	108		1.6
<i>M07718</i>	4		39	63		0.6
<i>M07719</i>	8		300	182		1.8
<i>M07720</i>	5		322	95		1.5
<i>M07721</i>	9		24	52		0.9
<i>M07722</i>	7		119	37		0.8
<i>M07723</i>	9		193	39		0.7
<i>M07725</i>	5		153	46		0.6
<i>M07726</i>	5		106	50		0.7
<i>M07727</i>	3		140	36		0.6
<i>M07728</i>	5		166	58		0.9
<i>M07729</i>	5		126	68		1
<i>M07730</i>	6		48	57		0.8
<i>M07731</i>	5		120	47		0.4
<i>M07732</i>	23		2940	47		0.4
<i>M07733</i>	6		63	39		0.3
<i>M07734</i>	4		25	35		0.6

Thursday, March 09, 2000

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

<i>Sample No.</i>	<i>Au (ppb)</i>	<i>Au (g/t)</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Ag (ppm)</i>
<i>M07735</i>	2		61	31		0.6
<i>M07736</i>	12		98	30		0.6
<i>M07737</i>	9		736	26		0.7
<i>M07738</i>	5		106	36		0.7
<i>M07739</i>	37		1280	22		1.6
<i>M07740</i>	5		35	42		0.9
<i>M07741</i>	4		24	41		0.6
<i>M07742</i>	19		166	33		0.6
<i>M07743</i>	6		43	56		0.8
<i>M07744</i>	5		41	46		0.7
<i>M07745</i>	4		16	25		0.5
<i>M07746</i>	25		402	28		1
<i>M07747</i>	5		29	57		1
<i>M07748</i>	5		42	20		0.5
<i>M07749</i>	23		1275	53		1.1
<i>M07750</i>	3		20	60		1.1
<i>M07751</i>	4		14	28		0.4
<i>M07752</i>	3		68	28		0.5
<i>M07753</i>	2		35	30		0.3
<i>M07754</i>	4		387	33		0.8
<i>M07755</i>	14		15	23		0.3
<i>M07756</i>	2		12	27		0.3
<i>M07757</i>	16		142	48		1.2

Thursday, March 09, 2000

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TECK EXPLORATION LTD.
DIAMOND DRILL LOG

<i>Sample No.</i>	<i>Au (ppb)</i>	<i>Au (g/t)</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Ag (ppm)</i>
<i>M07758</i>	1		16	35		0.6

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

Hole Number L00-02

Page 1 of 1 Header

Project Number 167700 NTS 32G/09

Objective To test a Melis anomaly along strike from a weak DeepEM anomaly and to test the felsic volcanic rocks downdip from an intersection of 1.1% Cu and 5.4% Zn over 1.0 ft

Project Name Lemoine

Drilling Company Forage M. Rouillier Inc.

Township/Area Lemoine

Start Date (m/d/y) 2/25/00

Claim Number 4533403

Finish Date (m/d/y) 2/26/00

UTM Zone 18

Geologist L. MARTIN

UTM Easting (m) 561020

Date Logged (m/d/y) 2/26/00

UTM Northing (m) 5509444

Hole Length 974.2

Grid Identifier Surface

Core Location Chibougamau

Easting (+E,-W) -19600

Distance to Water 800

Northing (+N,-S) -3200

Casing Lost 10

Elevation:

Core Size BQ

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

<i>Project Number</i>	<i>Hole Number</i>	<i>Depth (ft)</i>	<i>Azimuth (d)</i>	<i>Dip (d)</i>
167700	L00-02	0	332	-50
		295	334	-46
		642		-42
		836	330	-40
		970	331	-38

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

Geology Summary

<i>Project Number</i>	<i>Hole Number</i>	<i>From (ft)</i>	<i>To (ft)</i>	<i>Rock Code</i>	<i>Rock Names</i>
167700	L00-02	0	9.8	OVB	OVERBURDEN
		9.8	806.4	S	SEDIMENT
		806.5	830	I3	GABBRO
		830	889.6	V1B	RHYOLITE
		889.6	936.3	I3	GABBRO
		936.3	974.2	V1B	RHYOLITE
		974.2	974.2	EOH	END OF HOLE

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-02

Hole Number L00-02

<i>From</i>	<i>To</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag(ppm)</i>
0	9.8	OVERBURDEN OVB										

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-02

Hole Number

L00-02

From	To	Rock Code	Rock Type	Geology	Sample No.	From	To	Length	Cu (ppm)	Zn (ppm)	Pb (ppm)	Au (ppb)	Ag(ppm)
9.8	806.4	SEDIMENT		Greywacke. Medium green to greyish green colour. Fine to medium grained sediment. Alternating medium to lesser fine sediment material. No clean graded bedding. Well developed bedding/ foliation at 65 dca. 3-5% qtz-carb veins, commonly less than 3 cm thick and parallel to the foliation. Non magnetic. Unit locally shows moderate to strong shearing with an increase in thin alternating carbonate bands. Trace to rare disseminated pyrite.	M07779	354	358	4.00	83	296		3	1
					M07780	358	361	3.00	61	705		3	1
					M07781	361	364	3.00	89	1960		4	1
					M07782	364	368	4.00	47	568		2	0.8
					M07783	368	372	4.00	65	170		2	1
					M07784	372	377	5.00	103	117		5	1
					M07785	377	380	3.00	95	1320		4	1.1
				108.0 - 118.0 WRA M07642									
				236.0 - 246.0 WRA M07643									
				390.0 - 400.0 WRA M07644									
				500.0 - 510.0 WRA M07645									
				621.0 - 631.0 WRA M07646									
				728.0 - 738.0 WRA M07647									
				780.0 - 790.0 WRA M07648									
				9.8 38									
				Coarse, slightly granular sediment. No sharp banded appearance.									
				38 49.3 Mafic Dyke D3									
				Possible dyke. Fine grained, more uniform green colour with 15% chloritic blebs, 3-5mm in size. Sharp contacts at 55-75 dca.									
				60 98									
				Unit develops a more finer grained and moderate to well bedded appearance.									
				108 327 Fracture Zone frcz									
				Fracture or shear zone characterized by an increase in the degree of fracturing observed in the core and the presence of local well developed shear zones. Local chloritic faults. Limits of the stronger fracturing and shear zones are not well defined.									
				Local faults, parallel to the foliation at 42.0, 177.0, 208.0, 216.7 and 238.7 feet down the hole.									
					M07792	583	588	5.00	29	55		3	0.6
					M07793	588	593	5.00	9	54		3	0.4
					M07794	593	598	5.00	10	49		2	0.5
									10	49		2	0.5
					M07795	598	603	5.00	20	48		5	0.6
					M07796	635.7	640.5	4.80	10	87		1	1.2
					M07797	654	659.1	5.10	37	74		2	0.6
					M07798	659.1	663.1	4.00	59	92		4	0.7
					M07798	659.1	663.1	4.00	59	92		4	0.7
					M07799	663.1	668	4.90	40	105		7	0.6
					M07800	792.8	794.6	1.80	9	53		2	0.8

S

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-02

Hole Number L00-02

<i>From</i>	<i>To</i>	<i>Rock Code</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag (ppm)</i>
					358	383							
				Up to 1% thin wisps of po, sph and py associated with narrow qtz-carb veinlets that are parallel to the foliation. Host rock does not appear any different than the surrounding rocks.	449.8	459.1							
				Local bands of finer grained, black material (argillitic? Possible graphite?). Trace po.	533.5	553							
				Up to 1% thin wisps of mainly po associated with thin carbonate veinlets parallel to the foliation.	586	603.1							
				<1% wisps of po, most commonly associated with qtz-carb veins parallel to the foliation.									
806.5	830	GABBRO		Medium to dark green colour and medium grained. Massive to weakly foliated at 70 dca. Sharp contacts at 65-70 dca. Non magnetic. Minor bull white qtz veins. Trace py.									
			I3										
830	889.6	RHYOLITE		Medium greyish green colour, slightly mottled texture with a wispy texture. Weak to moderately foliated at 65 dca. Unit has a very weak porphyritic appearance, minor qtz crystals. No veining. Non magnetic. Minor sericite alteration throughout. No sulphides. Sharp lower contact at 65-70 dca.									
					855.0 - 865.0	WRA	M07649						
			V1B										

TECK EXPLORATION LTD.

DIAMOND DRILL LOG

Project Number 167700

L00-02

Hole Number L00-02

<i>From</i>	<i>To</i>	<i>Rock Code</i>	<i>Rock Type</i>	<i>Geology</i>	<i>Sample No.</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Au (ppb)</i>	<i>Ag(ppm)</i>
889.6	936.3	GABBRO		Medium green colour and medium grained. Moderate chlorite alteration, local patches of epidote. 3-5% qtz-carb veining. Massive texture, weak to moderately foliated. Weakly magnetic. Rare disseminated pyrite.									
			I3										
936.3	974.2	RHYOLITE		Similar to 830.0 - 889.6. Medium to light greyish green colour with a wispy texture. Moderately developed foliation at 70 dca. Weak to moderate sericite alteration. Rare qtz veining. Non magnetic. Possible very fine qtz crystals. Possible trace amounts of very fine light tan coloured sphalerite.									
			V1B	960.0 - 970.0 WRA M07650									
974.2	974.2	END OF HOLE											
			EOH										

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

<i>Sample No.</i>	<i>Au (ppb)</i>	<i>Au (g/t)</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Ag (ppm)</i>
<i>Project Number:</i>		167700				
<i>Hole Number:</i>		L00-02				
M07779	3		83	296		1
M07780	3		61	705		1
M07781	4		89	1960		1
M07782	2		47	568		0.8
M07783	2		65	170		1
M07784	5		103	117		1
M07785	4		95	1320		1.1
M07786	2		81	1006		0.9
M07787	2		70	860		0.7
M07788	3		96	83		0.8
M07789	3		74	66		0.7
M07790	3		56	64		0.8
M07791	2		52	59		0.8
M07792	3		29	55		0.6
M07793	3		9	54		0.4
M07794	2		10	49		0.5
M07795	5		20	48		0.6
M07796	1		10	87		1.2
M07797	2		37	74		0.6
M07798	4		59	92		0.7

Thursday, March 09, 2000

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TECK EXPLORATION LTD.
DIAMOND DRILL LOG

<i>Sample No.</i>	<i>Au (ppb)</i>	<i>Au (g/t)</i>	<i>Cu (ppm)</i>	<i>Zn (ppm)</i>	<i>Pb (ppm)</i>	<i>Ag (ppm)</i>
<i>M07799</i>	7		40	105		0.6
<i>M07800</i>	2		9	53		0.8

APPENDIX III
ANALYTICAL PROCEDURE



Les Laboratoires XRAL Laboratories
Une Division de / A Division of SGS Canada Inc.

129 Ave. Marcel Baril
Rouyn-Noranda, Québec
Canada J9X 7B9
Téléphone (819) 764-9108
Fax (819) 764-4673

From: JOE LANDERS
OPERATIONS MANAGER

To: SAMPLE PREPARATION
XRAL ROUYN-NORANDA

Date: December 17, 1999

Copies:

Subject: QUALITY ASSURANCE IN SAMPLE PREPARATION

MEMO

IN SAMPLE PREPARATION, THE FOLLOWING PROCEDURES WILL BE FOLLOWED:

UPON RECEIPT, THE SAMPLES WILL BE UNPACKED AND ARRANGED IN NUMERICAL ORDER. THE SAMPLES RECEIVED WILL BE COMPARED TO THE CLIENTS SAMPLE SUBMITTAL FORM. ALL DISCREPENCIES WILL BE NOTED ON THE SAMPLE SUBMITTAL FORM AND A SUPERVISOR WILL BE INFORMED. IF NO SAMPLE SUBMITTAL FORM HAS BEEN ENCLOSED, ONE WILL BE PREPARED AT THIS TIME AND A COPY FAXED TO THE CLIENT. THE SAMPLES WILL THEN BE ENTERED INTO OUR COMPUTOR SYSTEM AND THE REQUIRED SAMPLE LABELS AND WORKSHEETS PREPARED. UNDER NO CIRCUMSTANCES WILL PREP BEGIN BEFORE THIS PROCEDURE IS FOLLOWED.

A COPY OF THE SAMPLE SUBMITTAL FORM WILL BE GIVEN TO THE PULP WEIGHERS AT THIS TIME AS WELL.

BEFORE THE FIRST SAMPLE IS CRUSHED, THE CRUSHERS WILL BE CLEANED WITH SUITABLE MATERIAL.

WHEN THE FIRST SAMPLE IS CRUSHED, A SPLIT WILL BE SCREENED THROUGH EITHER A 10 OR 24 MESH SCREEN TO DETERMINE THAT 90% WILL PASS THE REQUIRED MESH. THESE TESTS WILL BE RECORDED IN THE LOG PROVIDED. IF 90% DOES NOT PASS, THE CRUSHERS WILL BE ADJUSTED AND SCREEN TESTS REPEATED UNTIL 90% PASSES THE REQUIRED MESH. AT THIS TIME, ALL CLIENTS REQUIRE 90% PASSING 10 MESH.

CRUSHER REJECTS WILL BE STORED IN BOXES PROVIDED FOR THIS PURPOSE. THE CUSTOMER NAME, PROJECT, FILE NUMBER AND SAMPLE NUMBERS MUST APPEAR ON ALL BOXES AND THIS INFORMATION MUST BE READABLE. DO NOT MIX PROJECTS.

CRUSHING EQUIPMENT MUST BE CLEANED WITH AIR AND OR BRUSH BETWEEN SAMPLES. THE RIFFLE MUST ALSO BE CLEANED BETWEEN SAMPLES.



ALL EQUIPMENT PROBLEMS MUST BE REPORTED TO A SUPERVISOR IMMEDIATELY. THESE INCLUDE HOLES IN SAMPLE PANS AND RIFFLES THAT REQUIRE REPAIRS.

THE PERSON CRUSHING AND SPLITTING WILL RECORD THEIR NAME AND JOB PERFORMED ON THE SAMPLE SUBMITTAL FORM. THEIR NAME WILL BE READABLE.

PULVERIZERS WILL BE CLEANED WITH SILICA SAND BEFORE EACH SAMPLE BATCH. BETWEEN SAMPLES, THE PULVERIZER WILL BE CLEANED WITH AIR OR VACUUM.

AFTER PULVERIZING THE FIRST SAMPLE OF A BATCH, A SCREEN TEST WILL BE DONE TO ENSURE THAT 90% PASSES 200 MESH. TIME WILL BE INCREASED AND SCREEN TESTS DONE UNTIL 80% PASSES 200 MESH. THIS IS FOR ALL CLIENTS.

SAMPLES WILL ALWAYS BE PULVERIZED IN NUMERICAL ORDER AND PLACED IN THE TRAYS PROVIDED IN NUMERICAL ORDER.

WHEN A TRAY OF SAMPLES IS COMPLETED, THE TRAY WILL BE PLACED ON THE RACK PROVIDED. THESE TRAYS MUST BE KEPT IN NUMERICAL ORDER IN THIS RACK.

IF YOU SUSPECT A SAMPLE MIX-UP OR ANY OTHER PROBLEM CONSULT A SUPERVISOR IMMEDIATELY.

WHEN SCREENING METALLICS, ENSURE THAT YOU HAVE THE PROPER SCREENS(100,140 OR 200 MESH) NOTE THIS ON THE BAG CONTAINING THE + PORTION.

THE PERSON PULVERIZING WILL ALSO ENTER ALL SCREEN TEST RESULTS IN THE LOG PROVIDED FOR THIS PURPOSE. THE INFORMATION REQUIRED IS DATE, CLIENT, FILE NUMBER AND TEST WEIGHTS.

THE PERSON PULVERIZING WILL ALSO RECORD THEIR NAME AND JOB PERFORMED ON THE SAMPLE SUBMITTAL FORM. THEIR NAME WILL BE READABLE.

THE SUPERVISOR WILL COLLECT ALL COMPLETED SAMPLE SUBMITTAL FORMS AND FORWARD THEM TO THE OFFICE FOR FILING WITH THE COMPLETED FILE NUMBER.



Les Laboratoires XRAL Laboratories
Une Division de / A Division of SGS Canada Inc.

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METHOD NUMBER 3- GOLD

Source of method: Xral Laboratories

Method code: FA301

SUMMARY

Gold is determined in geological materials by DCP after collection by fire assay. An assay fusion consists of heating a mixture of the finely pulverized sample with about three parts of a flux until the product is molten. One of the ingredients of the flux is a lead compound, which is reduced by other constituents of the flux or sample to metallic lead. The latter collects all the gold, together with silver, platinum metals and small quantities of certain base metals in the sample, and falls to the bottom of the crucible to form a lead button. The gangue of the ore is converted by the flux into a slag sufficiently fluid so that all particles of lead may fall readily through the molten mass. The choice of a suitable flux depends on the character of the ore. The lead button is cupelled to oxidize the lead leaving behind a dore bead containing the precious metals. The dore bead is then transferred to a test tube, dissolved with aqua regia, diluted to a specific volume and gold content determined by DCP.

This method is applicable to a wide variety of geological materials. However, heterogeneous distribution of gold in the sample may result in pronounced imprecision due to sampling error.

The lower reporting unit for 30-gram samples is 1 PPB by DCP. The upper reporting limit is 10,000 PPB by DCP. A gravimetric assay is recommended for values exceeding 1000 PPB.

APPARATUS

- 30 gram crucible
- Balance capable of weighing to 0.01 gram
- Furnace capable of 1100 C
- # 6 cupel
- 12 x 75 test tubes
- Dispensers capable of an accuracy of 1% and 0.5% precision
- Spectrospan V or similar DCP

REAGENTS

- Gold free litharge
- Soda ash
- Borax
- Silica flour
- Flour-
- Silver nitrate
- Nitric acid
- Hydrochloric acid
- Distilled water

PREPARATION OF STANDARDS

A series of standards are prepared by serial dilution of a 1000 PPM certified gold solution to cover a range from 0 to 10.000 PPB gold.

PROCEDURE

1. Add 150 grams of flux to a 30-gram crucible.
2. Weigh 30.0 grams of prepared sample into the crucible.
3. Mix the sample and flux together.
4. Tap the crucible to expel air.
5. Add 1 mg of silver nitrate to the crucible.
6. Cover with borax.
7. Place crucible in the furnace for 45 minutes at a temperature of 1080 C. Pour into a cast iron mold and allow to cool. Hammer the lead button free of slag.
8. Place the lead button in a pre-heated cupel.
9. Place the cupel in the furnace at 950-1000 C until all lead is removed. Remove from furnace and allow to cool.
10. Place the dore bead in a 12 x 75-mm test tube; add 0.2 ml of 1:1 nitric acid and place in a hot water bath for 30 minutes. Add 0.3 ml of hydrochloric acid and return to the hot water bath for 60 minutes. Remove from the water bath, allow to cool and bring to final volume of 5.0 ml with distilled water.

Acid Extraction, determination by ICP Spectroscopy - 36 elements**Description:**

A quarter gram sample is digested with 2 ml of nitric acid for one half hour in a water bath, then 1 ml of hydrochloric acid is added and the digestion continues for another 2 hours. Test tubes are shaken at regular intervals.

In house standards and previously analysed samples are run to monitor proper digestion procedures. Synthetic standards are used to calibrate the instrument.

Limitations:

The nitric aqua regia extraction will not completely extract difficultly soluble elements such as Ba, Cr, Sb, Sn, Ta, W, V and Zr. The multi-acid extraction (Method code 80-1) will ensure better extraction, though some refractory minerals may remain incompletely attacked. Volatile elements such as As may be lost from solution in the multi-acid attack.

Elements:

Al	0.01%	Fe	0.01%	Na	0.01%
Sb	5ppm	Pb	2ppm	Sr	5ppm
As	5ppm	Li	1ppm	Ag	.1ppm
Ba	1ppm	Mg	.01%	Sn	10ppm
Be	5ppm	Mn	.01%	Ti	.01%
Bi	3ppm	Mo	1ppm	W	10ppm
Cd	1ppm	Ni	1ppm	V	2ppm
Ca	.01%	P	.01%	Y	.1ppm
Cr	1ppm	K	.01%	Zr	5ppm
Co	1ppm	Sc	5ppm	Zn	5ppm
Cu	5ppm				

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Whole Rock Analysis by X-Ray Fluorescence Spectrometry**Description:**

A 2 gram sample, after roasting at 950 degrees for 1 hour, is fused with 7.7 grams of lithium tetraborate and the melt is cast into a 40 mm button.

The button is analyzed on a Philips PW1600 simultaneous x-ray fluorescence spectrometer. This system is calibrated using more than 40 reference materials, most of them being tabulated in K. Govindaraju "referred" values compilation.*

Counting time on major elements is 60 seconds and each of them is analyzed for through its own fixed channel. Trace elements in this package are run as counts are accumulated for the majors using a scanner.

L.O.I. is obtained from the roasting mentioned above. All elements determined are added and any samples with a sum of less than 98% or higher than 101% are automatically repeated. This gives us control over the button preparation. Instrument precision on most elements is better than 0.5%. Only on lower count rates would one experience errors of 1-2%.

Elements:**Major Oxides**

SiO ₂	0.01%
Al ₂ O ₃	0.01%
CaO	0.01%
MgO	0.01%
Na ₂ O	0.01%
K ₂ O	0.01%
Fe ₂ O ₃	0.01%
MnO	0.01%
Cr ₂ O ₃	0.01%
P ₂ O ₅	0.01%
TiO ₂	0.01%
LOI	0.01%

Minor Elements

Ba	10 ppm
Nb	10 ppm
Rb	10 ppm
Sr	10 ppm
Y	10 ppm
Zr	10 ppm
Cr ⁶⁺	10 ppm

* 10 ppm detection limit cannot be achieved if samples are milled in chrome steel pots.

Prepared by

Approved by

Date



Member of the SGS Group (Société Générale de Surveillance)



X-Ray Assay Laboratories
 A Division of SGS Supervision Services Inc.

X-Ray Fluorescence Spectrometry - 27 Elements - Pressed Pellet

Description:

At least 5 g of sample is required for the analysis of one or all of the above elements. A pellet is loaded into the holder of the automatic sample changer of a Philips PW1400 wavelength dispersive x-ray spectrometer. The 40 mm diameter sample pellets are loaded six to a tray with a total of 10 trays.

Elements are run in an inert nitrogen atmosphere employing a rhodium tube which also serves as an internal standard for some elements. For different combinations of requested elements various standard reference materials are inserted with these samples to verify calibration. Calibration is programmed into the instrument and inter-element corrections are applied to necessary analyte elements. Commonly requested element combinations are programmed to be determined individually or in groups.

Limitations:

This procedure is not suitable for mineralized materials. The presence of percentage levels of any element except the usual major rock constituents will have an adverse effect on the calibration.

The maximum concentration reported by these procedures is generally 5000 ppm. Analysis for elements with concentrations higher than 5000 ppm should be analysed by one of our assay procedures. The assay procedure involves a potassium pyrosulfate fusion of the sample followed by the preparation of a pressed disk. The pyrosulfate fusion produces a very homogeneous sample material with a uniform grain size. The fusion also saturates any matrix impact from the sample with the overwhelming matrix of the pyrosulfate flux itself thus allowing for synthetic standard calibrations. Internal standards are also used for assay grade analysis. This procedure is essential to produce the accuracy and precision requirements needed for assay grade analysis.

Elements:

Sb	3 ppm	Pb	2 ppm	Tl	5 ppm
As	3 ppm	Mo	2 ppm	Th	2 ppm
Ba	20 ppm	Nb	2 ppm	Sa	5 ppm
Bi	3 ppm	Ni	2 ppm	Ti	5 ppm
Cl	50 ppm	Rb	2 ppm	W	5 ppm
Co	2 ppm	Se	3 ppm	U	2 ppm
Cu	2 ppm	Sr	2 ppm	Y	2 ppm
Ga	3 ppm	S	50 ppm	Zr	3 ppm
Fe	3 ppm	TA	5 ppm	Zn	2 ppm

Prepared by	Approved by	Date
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APPENDIX IV
WHOLE ROCK DATA AND ASSAY CERTIFICATES

Sample	Hole No.	From ft	To ft	AU PPB	SiO2 XRF103 %	Al2O3 XRF103 %	CaO XRF103 %	MgO XRF103 %	Na2O XRF103 %	K2O XRF103 %	Fe2O3 XRF103 %	MnO XRF103 %	TiO2 XRF103 %	P2O5 XRF103 %	Cr2O3 XRF103 %	LOI XRF103 %
MO7615	L95-8	1922	1932	30	75.90	10.70	0.78	2.20	2.16	2.67	3.97	0.04	0.15	-0.01	0.02	1.45
MO7616	L95-8	2050	2060	13	71.90	12.20	1.99	0.95	4.61	1.47	4.83	0.04	0.42	0.06	0.02	1.45
MO7617	L95-8	2160	2170	18	72.90	11.90	1.61	1.21	4.70	1.29	4.54	0.02	0.41	0.06	0.03	1.45
MO7618	L95-8	2273	2283	10	72.70	12.30	1.40	1.08	4.70	1.39	4.73	0.03	0.43	0.06	0.02	1.20
MO7619	L95-8	2380	2390	15	73.20	12.40	0.69	0.96	3.79	2.22	4.75	0.02	0.41	0.06	0.03	1.50
MO7620	L95-8	2490	2500	7	73.60	11.00	0.38	2.40	2.80	2.19	5.47	0.05	0.51	0.05	0.02	1.55
MO7621	L95-8	2600	2610	11	71.00	10.90	0.65	3.48	2.61	1.61	7.46	0.08	0.54	0.08	0.02	1.70
MO7622	L95-8	2700	2710	7	76.10	11.00	0.88	1.52	3.45	1.94	3.54	0.03	0.17	-0.01	0.02	1.40
MO7623	L95-8	2778	2788	15	75.40	10.30	1.45	1.85	0.32	2.96	4.68	0.08	0.15	-0.01	0.02	2.90
MO7624	L95-8	2847	2857	8	56.20	12.50	4.69	3.52	2.43	1.25	14.70	0.19	1.62	0.56	0.01	2.05
MO7625	L95-8	2968	2978	7	78.50	10.80	1.06	1.57	3.30	1.37	3.96	0.05	0.16	-0.01	0.02	1.35
MO7626	L95-8	3038	3048	5	71.70	12.60	2.18	1.26	4.85	0.97	4.74	0.05	0.48	0.07	0.02	1.15
MO7627	L00-01	20	30	5	72.70	10.00	0.26	5.58	0.07	1.24	6.25	0.05	0.52	0.08	0.02	3.35
MO7628	L00-01	92	102	3	72.20	12.00	1.47	1.33	5.33	0.20	5.22	0.05	0.52	0.09	0.08	1.60
MO7629	L00-01	187	197	4	55.30	11.90	5.59	2.18	2.76	0.46	16.70	0.34	1.61	0.59	0.01	1.20
MO7630	L00-01	233	243	5	46.60	14.50	10.30	7.90	2.09	0.34	13.90	0.21	1.05	0.11	0.02	2.45
MO7631	L00-01	370	380	7	58.20	12.00	4.59	1.81	2.20	0.81	17.20	0.32	1.13	0.38	0.02	1.15
MO7632	L00-01	452	462	12	63.80	11.60	2.62	1.46	2.71	1.85	13.40	0.09	0.74	0.17	0.02	1.25
MO7633	L00-01	570	580	4	62.20	11.50	1.58	0.88	3.31	1.64	16.70	0.06	0.72	0.17	0.01	1.45
MO7634	V6-76	1315	1325	4	49.80	15.10	8.31	6.70	3.60	0.14	12.40	0.19	1.00	0.24	0.03	2.50
MO7635	V6-76	1385	1395	1	76.00	11.30	0.53	1.28	4.25	1.77	3.85	0.04	0.16	-0.01	0.07	0.85
MO7636	V6-76	1435	1445	1	52.70	13.00	4.58	4.23	2.88	0.41	16.80	0.25	1.83	0.47	-0.01	2.20
MO7637	V6-76	1488	1498	<1	71.90	12.20	1.52	1.13	4.51	1.70	4.83	0.06	0.37	0.04	0.02	1.75
MO7638	V6-76	1585	1595	5	53.10	12.50	6.50	2.80	3.09	0.41	16.30	0.27	1.87	0.44	-0.01	1.25
MO7639	V6-76	1642.8	1652.8	2	73.50	11.40	0.74	2.47	4.40	0.71	5.33	0.08	0.20	-0.01	0.02	1.30
MO7640	V6-76	1717	1727	3	75.60	10.80	0.71	2.15	1.77	2.90	4.38	0.07	0.20	-0.01	0.02	1.55
MO7641	V6-76	1886	1896	1	52.80	13.80	6.48	3.02	3.11	0.28	16.40	0.24	1.82	0.43	-0.01	1.95
MO7642	L00-02	108	118	2	61.00	17.00	2.00	3.11	3.98	2.32	7.04	0.09	0.77	0.22	0.02	2.55
MO7643	L00-02	236	246	4	60.50	16.70	2.20	3.24	4.29	1.47	7.34	0.08	0.77	0.19	0.02	3.40
MO7644	L00-02	390	400	7	58.70	16.60	2.67	3.46	4.26	1.32	7.99	0.10	0.81	0.18	0.01	3.50
MO7645	L00-02	500	510	13	58.60	16.20	3.21	3.62	4.40	1.07	8.10	0.09	0.86	0.20	0.02	3.75
MO7646	L00-02	621	631	4	59.30	17.00	1.66	4.00	5.29	1.02	7.95	0.08	0.83	0.18	0.02	2.75
MO7647	L00-02	728	738	2	59.90	17.30	1.67	3.18	4.06	1.98	7.76	0.10	0.71	0.19	0.02	2.80
MO7648	L00-02	780	790	1	69.30	15.00	1.41	2.13	3.74	2.27	3.30	0.05	0.33	0.10	0.03	2.45
MO7649	L00-02	855	865	1	70.40	11.50	1.59	4.22	0.75	2.49	4.85	0.15	0.17	-0.01	0.01	4.00
MO7650	L00-02	960	970	1	74.20	11.00	0.39	3.45	0.08	2.70	3.88	0.08	0.14	-0.01	0.02	4.50

Sample	Hole No.	From ft	To ft	Sum XRF103 %	Rb XRF103 ppm	Sr XRF103 ppm	Y XRF103 ppm	Zr XRF103 ppm	Nb XRF103 ppm	Ba XRF103 ppm	Be ICP70 ppm	Na ICP70 %	Mg ICP70 %	Al ICP70 %	P ICP70 %	K ICP70 %
MO7615	L95-8	1922	1932	100.2	50	60	253	490	42	508	-0.5	0.09	0.96	1.27	-0.01	0.80
MO7616	L95-8	2050	2060	100.1	29	101	132	366	26	448	-0.5	0.20	0.28	0.59	0.03	0.21
MO7617	L95-8	2160	2170	100.2	32	96	127	363	27	405	-0.5	0.21	0.48	0.75	0.03	0.21
MO7618	L95-8	2273	2283	100.2	28	93	136	370	27	408	-0.5	0.18	0.41	0.71	0.04	0.23
MO7619	L95-8	2380	2390	100.2	45	81	137	375	27	636	-0.5	0.15	0.26	0.58	0.03	0.30
MO7620	L95-8	2490	2500	100.2	40	32	141	497	24	462	-0.5	0.14	1.15	1.59	0.03	0.77
MO7621	L95-8	2600	2610	100.3	32	29	197	691	28	368	-0.5	0.14	1.78	2.33	0.05	0.80
MO7622	L95-8	2700	2710	100.2	41	48	272	528	45	263	-0.5	0.13	0.68	1.03	-0.01	0.57
MO7623	L95-8	2778	2788	100.2	47	26	243	474	41	478	-0.5	0.02	0.82	1.44	-0.01	0.48
MO7624	L95-8	2847	2857	99.9	40	160	94	278	14	171	-0.5	0.13	1.82	2.67	0.24	0.97
MO7625	L95-8	2968	2978	100.3	27	51	265	516	43	279	-0.5	0.15	0.74	1.20	-0.01	0.40
MO7626	L95-8	3038	3048	100.2	19	123	167	405	26	268	-0.5	0.22	0.57	1.03	0.04	0.35
MO7627	L00-01	20	30	100.2	17	7	194	675	29	281	-0.5	0.01	2.84	3.00	0.05	0.13
MO7628	L00-01	92	102	100.2	6	57	136	456	26	59	-0.5	0.26	0.65	1.55	0.05	0.03
MO7629	L00-01	187	197	98.7	2	79	89	265	12	49	-0.5	0.26	0.79	2.24	0.27	0.14
MO7630	L00-01	233	243	99.5	11	185	14	50	4	55	-0.5	0.11	1.95	2.34	0.04	0.23
MO7631	L00-01	370	380	99.9	17	79	95	272	11	194	-0.5	0.20	0.80	2.72	0.17	0.54
MO7632	L00-01	452	462	99.8	50	101	118	362	17	442	-0.5	0.14	0.77	2.70	0.08	1.53
MO7633	L00-01	570	580	100.3	50	50	120	300	17	364	-0.5	0.16	0.42	2.59	0.08	1.20
MO7634	V6-76	1315	1325	100.1	4	146	26	136	3	29	-0.5	0.04	1.56	1.90	0.10	-0.01
MO7635	V6-76	1385	1395	100.3	35	26	249	507	42	336	-0.5	0.04	0.54	1.03	-0.01	0.73
MO7636	V6-76	1435	1445	99.4	8	123	78	241	11	70	-0.5	0.05	1.70	2.83	0.19	0.20
MO7637	V6-76	1488	1498	100.2	32	44	86	452	22	350	-0.5	0.05	0.46	1.13	0.03	0.66
MO7638	V6-76	1585	1595	98.7	8	199	74	222	9	89	-0.5	0.12	0.81	1.62	0.18	0.18
MO7639	V6-76	1642.8	1652.8	100.3	22	51	246	543	40	103	-0.5	0.06	1.19	1.64	-0.01	0.47
MO7640	V6-76	1717	1727	100.3	52	21	237	495	40	332	-0.5	0.04	0.93	1.28	0.01	0.83
MO7641	V6-76	1886	1896	100.3	3	181	67	207	8	42	-0.5	0.08	1.11	2.28	0.18	0.08
MO7642	L00-02	108	118	100.2	78	237	24	201	11	602	-0.5	0.04	1.29	1.91	0.08	0.20
MO7643	L00-02	236	246	100.3	41	199	24	158	7	418	-0.5	0.05	1.49	2.36	0.08	0.08
MO7644	L00-02	390	400	99.7	37	172	28	144	6	301	-0.5	0.04	1.58	2.48	0.07	0.08
MO7645	L00-02	500	510	100.3	29	178	27	149	8	261	-0.5	0.04	1.67	2.54	0.08	0.06
MO7646	L00-02	621	631	100.1	33	122	19	153	8	256	-0.5	0.05	1.68	2.33	0.07	0.07
MO7647	L00-02	728	738	99.8	63	184	23	156	7	501	-0.5	0.04	1.33	2.18	0.07	0.13
MO7648	L00-02	780	790	100.3	75	158	12	116	7	575	-0.5	0.04	0.73	1.02	0.04	0.12
MO7649	L00-02	855	865	100.2	61	31	286	504	44	353	-0.5	0.02	1.70	1.70	-0.01	0.18
MO7650	L00-02	960	970	100.5	69	9	315	479	51	239	-0.5	0.02	1.41	1.50	-0.01	0.16

Sample	Hole No.	From ft	To ft	Ca ICP70 %	Sc ICP70 ppm	Ti ICP70 %	V ICP70 ppm	Cr ICP70 ppm	Mn ICP70 ppm	Fe ICP70 %	Co ICP70 ppm	Ni ICP70 ppm	Cu ICP70 ppm	Zn ICP70 ppm	As ICP70 ppm	Sr ICP70 ppm
MO7615	L95-8	1922	1932	0.28	0.5	0.04	2	105	206	1.89	2	4	11.5	32.8	63	18.2
MO7616	L95-8	2050	2060	0.85	1.6	0.06	6	107	211	2.41	4	4	30.0	19.6	-3	24.3
MO7617	L95-8	2160	2170	0.92	1.5	0.03	7	131	169	2.54	3	3	22.2	24.9	4	23.9
MO7618	L95-8	2273	2283	0.51	1.9	0.07	6	98	148	2.49	3	4	3.6	33.1	-3	19.8
MO7619	L95-8	2380	2390	0.38	1.0	-0.01	5	108	109	2.29	3	4	2.0	19.6	10	15.1
MO7620	L95-8	2490	2500	0.21	1.6	0.08	5	127	229	3.01	4	3	1.9	31.7	-3	7.5
MO7621	L95-8	2600	2610	0.21	2.6	0.10	6	98	396	4.28	8	3	11.1	66.7	4	6.9
MO7622	L95-8	2700	2710	0.36	0.6	0.04	-2	94	156	1.82	2	3	1.6	32.1	-3	13.9
MO7623	L95-8	2778	2788	0.94	-0.5	0.01	-2	110	510	2.48	2	3	30.7	54.3	-3	14.9
MO7624	L95-8	2847	2857	0.72	2.8	0.18	10	69	635	6.58	18	2	130.0	165.0	-3	14.9
MO7625	L95-8	2968	2978	0.13	-0.5	0.04	-2	108	263	2.15	3	4	94.5	64.8	-3	8.3
MO7626	L95-8	3038	3048	0.30	1.6	0.07	8	93	171	2.18	5	5	5.8	28.4	-3	17.5
MO7627	L00-01	20	30	0.11	2.1	0.02	5	87	304	3.65	13	3	2.1	72.1	-3	1.1
MO7628	L00-01	92	102	0.62	4.5	0.06	15	102	312	3.32	6	5	13.8	52.0	-3	7.0
MO7629	L00-01	187	197	1.49	10.6	0.06	4	66	798	5.49	9	2	2.0	96.2	-3	13.0
MO7630	L00-01	233	243	0.92	2.7	0.20	80	83	594	4.17	31	57	83.0	58.0	-3	14.9
MO7631	L00-01	370	380	0.98	7.0	0.10	4	92	754	6.80	10	2	2.8	96.0	-3	9.8
MO7632	L00-01	452	462	0.36	3.4	0.21	5	75	457	7.21	10	2	33.0	60.0	-3	10.0
MO7633	L00-01	570	580	0.66	8.2	0.15	5	81	301	8.82	7	-1	4.1	45.1	-3	8.9
MO7634	V6-76	1315	1325	0.51	1.3	0.09	34	132	611	3.55	20	59	14.8	64.3	-3	12.0
MO7635	V6-76	1385	1395	0.22	0.8	0.06	3	65	290	2.14	5	1	2.9	40.7	-3	10.0
MO7636	V6-76	1435	1445	0.71	4.7	0.08	16	29	943	6.99	19	2	8.2	143.0	-3	14.8
MO7637	V6-76	1488	1498	0.84	2.7	0.08	5	84	363	2.64	5	3	111.0	50.1	-3	15.7
MO7638	V6-76	1585	1595	0.98	4.3	0.06	12	53	666	4.55	16	1	18.9	92.3	-3	25.8
MO7639	V6-76	1642.8	1652.8	0.19	1.3	0.06	5	100	524	3.11	5	3	17.7	72.3	-3	9.1
MO7640	V6-76	1717	1727	0.36	-0.5	0.05	3	88	434	2.29	1	2	19.7	68.4	-3	7.8
MO7641	V6-76	1886	1896	0.96	3.7	0.08	14	47	822	5.87	19	1	41.9	117.0	-3	20.3
MO7642	L00-02	108	118	0.61	4.8	0.07	34	90	595	3.55	21	60	47.6	90.9	-3	50.2
MO7643	L00-02	236	246	1.07	3.9	0.05	54	73	547	4.20	25	50	46.7	139.0	15	38.9
MO7644	L00-02	390	400	1.24	4.7	0.06	61	75	666	4.52	23	48	50.0	862.0	14	36.2
MO7645	L00-02	500	510	1.71	5.4	0.04	65	79	622	4.63	25	48	70.9	71.5	-3	55.5
MO7646	L00-02	621	631	0.60	5.7	0.08	69	80	535	4.28	29	52	20.8	65.7	-3	18.1
MO7647	L00-02	728	738	0.56	5.7	0.06	46	75	637	4.14	27	58	43.1	87.1	18	32.4
MO7648	L00-02	780	790	0.62	1.5	0.03	11	57	328	1.51	9	19	9.7	43.3	6	25.0
MO7649	L00-02	855	865	0.91	-0.5	-0.01	3	55	936	2.25	3	3	22.1	741.0	-3	19.7
MO7650	L00-02	960	970	0.20	-0.5	-0.01	-2	72	509	1.89	2	3	22.9	820.0	-3	3.9

Sample	Hole No.	From ft	To ft	Y ICP70 ppm	Zr ICP70 ppm	Mo ICP70 ppm	Ag ICP70 ppm	Cd ICP70 ppm	Sn ICP70 ppm	Sb ICP70 ppm	Ba ICP70 ppm	La ICP70 ppm	W ICP70 ppm	Pb ICP70 ppm	Bi ICP70 ppm
MO7615	L95-8	1922	1932	73.8	39.7	1	-0.2	-1	-10	-5	84	30.5	-10	-2	-5
MO7616	L95-8	2050	2060	37.7	12.9	-1	-0.2	-1	-10	-5	52	26.0	-10	-2	-5
MO7617	L95-8	2160	2170	46.6	23.9	-1	-0.2	-1	-10	-5	57	30.4	-10	-2	-5
MO7618	L95-8	2273	2283	40.0	14.3	-1	-0.2	-1	-10	-5	51	30.1	-10	-2	-5
MO7619	L95-8	2380	2390	50.4	19.8	2	0.3	-1	-10	-5	70	36.3	-10	-2	-5
MO7620	L95-8	2490	2500	37.3	35.6	2	-0.2	-1	-10	-5	104	21.6	-10	-2	-5
MO7621	L95-8	2600	2610	34.2	51.6	3	0.3	-1	-10	-5	121	18.7	-10	-2	-5
MO7622	L95-8	2700	2710	105.0	48.5	1	-0.2	-1	-10	-5	49	25.5	-10	-2	-5
MO7623	L95-8	2778	2788	77.1	43.9	-1	0.2	-1	-10	-5	66	20.8	-10	-2	-5
MO7624	L95-8	2847	2857	15.0	16.7	2	0.5	2	-10	-5	131	15.6	-10	-2	-5
MO7625	L95-8	2968	2978	47.2	27.0	1	-0.2	-1	-10	-5	52	18.0	-10	-2	-5
MO7626	L95-8	3038	3048	46.9	15.4	1	-0.2	-1	-10	-5	65	17.6	-10	-2	-5
MO7627	L00-01	20	30	23.4	65.0	-1	0.3	-1	-10	-5	25	24.8	-10	-2	-5
MO7628	L00-01	92	102	34.1	17.3	-1	-0.2	-1	-10	-5	7	23.1	-10	-2	-5
MO7629	L00-01	187	197	18.3	8.6	-1	-0.2	2	-10	-5	12	12.0	-10	-2	-5
MO7630	L00-01	233	243	1.8	2.2	-1	0.4	-1	-10	-5	30	4.8	-10	-2	-5
MO7631	L00-01	370	380	16.0	7.4	-1	0.3	2	-10	-5	147	13.1	-10	-2	-5
MO7632	L00-01	452	462	18.1	7.7	-1	0.2	2	-10	-5	375	23.2	-10	-2	-5
MO7633	L00-01	570	580	26.5	7.6	-1	0.3	4	-10	-5	268	29.7	-10	-2	-5
MO7634	V6-76	1315	1325	5.4	4.5	1	-0.2	-1	-10	-5	1	4.6	-10	3	-5
MO7635	V6-76	1385	1395	106.0	16.7	2	-0.2	-1	-10	-5	88	33.4	-10	3	-5
MO7636	V6-76	1435	1445	11.9	6.8	3	0.4	-1	-10	-5	52	8.7	-10	5	-5
MO7637	V6-76	1488	1498	45.1	17.1	1	-0.2	-1	-10	-5	107	23.3	-10	3	-5
MO7638	V6-76	1585	1595	12.3	4.7	2	0.3	-1	-10	-5	66	6.6	-10	-2	-5
MO7639	V6-76	1642.8	1652.8	87.9	18.3	2	-0.2	-1	-10	-5	73	20.5	-10	3	-5
MO7640	V6-76	1717	1727	87.5	37.4	3	-0.2	-1	-10	-5	60	29.4	-10	-2	-5
MO7641	V6-76	1886	1896	12.1	6.0	4	0.6	-1	-10	-5	29	9.1	-10	-2	-5
MO7642	L00-02	108	118	8.6	12.2	4	0.3	-1	-10	5	53	20.6	-10	5	-5
MO7643	L00-02	236	246	6.1	12.8	2	0.4	-1	-10	5	24	16.0	-10	2	-5
MO7644	L00-02	390	400	5.2	10.4	2	0.3	4	-10	-5	16	13.0	-10	4	-5
MO7645	L00-02	500	510	7.9	9.0	3	-0.2	-1	-10	6	13	16.5	-10	5	-5
MO7646	L00-02	621	631	4.2	8.8	2	-0.2	-1	-10	-5	17	18.7	-10	-2	-5
MO7647	L00-02	728	738	7.4	8.3	2	0.4	-1	-10	6	36	15.7	-10	10	-5
MO7648	L00-02	780	790	5.0	13.2	2	0.2	-1	-10	-5	34	16.5	-10	15	-5
MO7649	L00-02	855	865	85.2	10.9	3	-0.2	3	-10	-5	29	18.3	-10	3	-5
MO7650	L00-02	960	970	114.0	10.1	2	-0.2	4	-10	-5	16	19.0	-10	3	-5

Sample	Hole No.	From ft	To ft	Magmatic Affinity Zr/Y	Ishikawa Index $100 \cdot \frac{(MgO+K_2O)}{(MgO+K_2O+Na_2O+CaO)}$	Spitz Index $\frac{Al_2O_3}{Na_2O}$	Chlorite Index $100 \cdot \frac{(Fe_2O_3+MgO)}{(Fe_2O_3+MgO+2CaO+Na_2O)}$	Sericite Index $100 \cdot \frac{K_2O}{(K_2O+Na_2O)}$
MO7615	L95-8	1922	1932	1.9	62	5	62	55
MO7616	L95-8	2050	2060	2.8	27	3	40	24
MO7617	L95-8	2160	2170	2.9	28	3	42	22
MO7618	L95-8	2273	2283	2.7	29	3	44	23
MO7619	L95-8	2380	2390	2.7	42	3	52	37
MO7620	L95-8	2490	2500	3.5	59	4	69	44
MO7621	L95-8	2600	2610	3.5	61	4	74	38
MO7622	L95-8	2700	2710	1.9	44	3	49	36
MO7623	L95-8	2778	2788	2.0	73	32	67	90
MO7624	L95-8	2847	2857	3.0	40	5	61	34
MO7625	L95-8	2968	2978	1.9	40	3	51	29
MO7626	L95-8	3038	3048	2.4	24	3	39	17
MO7627	L00-01	20	30	3.5	95	143	95	95
MO7628	L00-01	92	102	3.4	18	2	44	4
MO7629	L00-01	187	197	3.0	24	4	58	14
MO7630	L00-01	233	243	3.6	40	7	49	14
MO7631	L00-01	370	380	2.9	28	5	63	27
MO7632	L00-01	452	462	3.1	38	4	65	41
MO7633	L00-01	570	580	2.5	34	3	73	33
MO7634	V6-76	1315	1325	5.2	36	4	49	4
MO7635	V6-76	1385	1395	2.0	39	3	49	29
MO7636	V6-76	1435	1445	3.1	38	5	64	12
MO7637	V6-76	1488	1498	5.3	32	3	44	27
MO7638	V6-76	1585	1595	3.0	25	4	54	12
MO7639	V6-76	1642.8	1652.8	2.2	38	3	57	14
MO7640	V6-76	1717	1727	2.1	67	6	67	62
MO7641	V6-76	1886	1896	3.1	26	4	55	8
MO7642	L00-02	108	118	8.4	48	4	56	37
MO7643	L00-02	236	246	6.6	42	4	55	26
MO7644	L00-02	390	400	5.1	41	4	54	24
MO7645	L00-02	500	510	5.5	38	4	52	20
MO7646	L00-02	621	631	8.1	42	3	58	16
MO7647	L00-02	728	738	6.8	47	4	60	33
MO7648	L00-02	780	790	9.7	46	4	45	38
MO7649	L00-02	855	865	1.8	74	15	70	77
MO7650	L00-02	960	970	1.5	93	138	89	97

XRAL**LES LABORATOIRES XRAL LABORATORIES**

UNE DIVISION DE / A DIVISION OF SGS CANADA INC.
 129 AVE. MARCEL BARIL - ROUYN-NORANDA - QUÉBEC J9X 7B9
 TÉL.: (819) 764-9108 FAX: (819) 764-4673

CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

R17775

Nom de la Compagnie/Company: Teck Exploration

Bon de Commande No/ P.O. No:

Projet/ Project No : 167700

Date Soumis/ Submitted : Feb 22, 2000

Attention : Louis Martin

Feb 28, 2000

No. D'Echantillon Sample No.	AU PPB	AU CHK PPB	AG PPM	CU PPM	ZN PPM
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M07701	1		0.9	101	134
M07702	<1		1.3	46	97
M07703	<1		0.6	14	31
M07704	2		1.2	168	122
M07705	8		0.7	12	33
M07706	1		0.6	14	19
M07707	<1		0.6	4	32
M07708	2		0.7	35	47
M07709	2		0.6	91	179
M07710	2	3	0.3	120	94
M07711	1		0.2	74	67
M07712	10		0.2	60	78
M07713	6		0.3	93	56
M07714	4		<0.2	4	8
M07715	4		0.6	90	69
M07716	4		1.0	67	129
M07717	3		1.6	197	108
M07718	4		0.6	39	63
M07719	8		1.8	300	182
M07720	5	8	1.5	322	95
M07721	9		0.9	24	52
M07722	7		0.8	119	37
M07723	9		0.7	193	39
M07724	8		0.9	50	44
M07725	5		0.6	153	46
M07726	5		0.7	106	50
M07727	3		0.6	140	36
M07728	5		0.9	166	58
M07729	5		1.0	126	68
M07730	6	4	0.8	48	57
M07731	5		0.4	120	47
M07732	23		0.4	2940	47
M07733	6		0.3	63	39
M07734	4		0.6	25	35
M07735	2		0.6	61	31
M07736	12		0.6	98	30
M07737	9		0.7	736	26
M07738	5		0.7	106	36
M07739	37		1.6	1280	22

Certifie par / Certified by :



Membre du Groupe SGS (Société Générale de Surveillance)

XRAL**LES LABORATOIRES XRAL LABORATORIES**

UNE DIVISION DE / A DIVISION OF SGS CANADA INC.
 129 AVE. MARCEL BARIÉ • ROUYN-NORANDA • QUÉBEC J9X 7B9
 TÉL.: (819) 764-9108 FAX: (819) 764-4673

CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

R17775

Nom de la Compagnie/Company: Teck Exploration
 Bon de Commande No/ P.O. No:
 Projet/ Project No : 167700
 Date Soumis/ Submitted : Feb 22, 2000
 Attention : Louis Martin

Feb 28, 2000

No. D'Echantillon Sample No.	AU PPB	AU PPB	CHK PPM	AG PPM	CU PPM	ZN PPM
M07740	5	4		0.9	35	42
M07741	4			0.6	24	41
M07742	19			0.6	166	33
M07743	6			0.8	43	56
M07744	5			0.7	41	46
M07745	4			0.5	16	25
M07746	25			1.0	402	28
M07747	5			1.0	29	57
M07748	5			0.5	42	20
M07749	23			1.1	1275	53
M07750	3	4		1.1	20	60
M07751	4			0.4	14	28
M07752	3			0.5	68	28
M07753	2			0.3	35	30
M07754	4			0.8	387	33
M07755	14			0.3	15	23
M07756	2			0.3	12	27
M07757	16			1.2	142	48
M07758	1			0.6	16	35

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CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

R17859

Nom de la Compagnie/Company: Teck Exploration
 Bon de Commande No/ P.O. No:
 Projet/ Project No : 167700
 Date Soumis/ Submitted : Mar 01, 2000
 Attention : Louis Martin

Mar 07, 2000

No. D'Echantillon Sample No.	AU PPB	AU CHK PPB	AG PPM	CU PPM	ZN PPM
M07759	5		1.3	467	43
M07760	3		1.0	50	41
M07761	2		1.5	77	92
M07762	8		0.6	16	39
M07763	2		1.6	9	100
M07764	3		1.6	37	103
M07765	2		0.8	81	134
M07766	29	33	39.5	20340	1020
M07767	2		0.8	93	110
M07768	7	4	0.8	63	116
M07769	2		0.6	51	310
M07770	1		0.9	66	1600
M07771	6		1.6	98	1300
M07772	20		1.3	516	1200
M07773	5		0.7	67	850
M07774	7		1.0	78	529
M07775	10		1.1	23	290
M07776	2		1.3	42	242
M07777	6		1.3	53	258
M07778	3	2	1.0	67	203
M07779	3		1.0	83	296
M07780	3		1.0	61	705
M07781	4		1.0	89	1960
M07782	2		0.8	47	568
M07783	2		1.0	65	170
M07784	5		1.0	103	117
M07785	4		1.1	95	1320
M07786	2		0.9	81	1006
M07787	2		0.7	70	860
M07788	2	3	0.8	96	83
M07789	3		0.7	74	66
M07790	3		0.8	56	64
M07791	2		0.8	52	59
M07792	3		0.6	29	55
M07793	3		0.4	9	54
M07794	2		0.5	10	49
M07795	5		0.6	20	48
M07796	1		1.2	10	87
M07797	2		0.6	37	74

Certifie par / Certified by :



Membre du Groupe SGS (Société Générale de Surveillance)

XRAL**LES LABORATOIRES XRAL LABORATORIES**

UNE DIVISION DE / A DIVISION OF SGS CANADA INC.
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CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

Nom de la Compagnie/Company: Teck Exploration

R17859

Bon de Commande No/ P.O. No:

Projet/ Project No : 167700

Date Soumis/ Submitted : Mar 01, 2000

Mar 07, 2000

Attention : Louis Martin

No. D'Echantillon Sample No.	AU PPB	AU CHK PPB	AG PPM	CU PPM	ZN PPM
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M07798	4	4	0.7	59	92
M07799	7		0.6	40	105
M07800	2		0.8	9	53



Les Laboratoires XRAL Laboratories
Une Division de / A Division of SGS Canada Inc.

129 Ave. Marcel Baril
Rouyn-Noranda, Québec
Canada J9X 7B9
Téléphone (819) 764-9108
Fax (819) 764-4673

your ref: 167700

our ref: 58749/R17776

CERTIFICAT D'ANALYSE/ASSAY CERTIFICATE

March 08, 2000

TECK EXPLORATION LTD
R.R.#5 - 19 LEGAULT STREET
NORTH BAY, ONTARIO
P1B 8Z4

ATTENTION: LOUIS MARTIN

Date soumis/ Submitted: February 22, 2000

No. of samples: 19

No. of pages: 5

ELEMENTS

METHOD

DETECTION LIMIT

Scan
Whole Rock analysis

ICP-70
XRF-103

Certifié par/Certified by:

J.J. Landers Gérant/Manager

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UNE DIVISION DE / A DIVISION OF SGS CANADA INC.
 129 AVE. MARCEL BARIL • ROUYN-NORANDA • QUÉBEC J9X 7B9
 TÉL.: (819) 764-9108 FAX: (819) 764-4673

CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

R17776

Nom de la Compagnie/Company: Teck Exploration
 Bon de Commande No/ P.O. No:
 - Projet/ Project No : 167700
 Date Soumis/ Submitted : Feb 22, 2000
 Attention : Louis Martin

Feb 28, 2000

No. D'Echantillon	AU	AU
Sample No.	PPB	CHK
	PPB	PPB

M07615	28	32
M07616	13	
M07617	18	
M07618	10	
M07619	15	
M07620	7	
M07621	11	
M07622	7	
M07623	15	
M07624	7	9
M07625	7	
M07626	5	
M07627	5	
M07628	3	
M07629	4	
M07630	5	
M07631	7	
M07632	12	
M07633	4	

Certifié par / Certified by : _____



XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 058749

Date: 07/03/00

FINAL

Page 1 of 4

Element. Method. Det.Lim. Units.	Be ICP70 0.5 ppm	Na ICP70 0.01 %	Mg ICP70 0.01 %	Al ICP70 0.01 %	P ICP70 0.01 %	K ICP70 0.01 %	Ca ICP70 0.01 %	Sc ICP70 0.5 ppm	Ti ICP70 0.01 %	V ICP70 2 ppm	Cr ICP70 1 ppm	Mn ICP70 2 ppm	Fe ICP70 0.01 %	Co ICP70 1 ppm
MO7615	<0.5	0.09	0.96	1.27	<0.01	0.80	0.28	0.5	0.04	2	105	206	1.89	2
MO7616	<0.5	0.20	0.28	0.59	0.03	0.21	0.85	1.6	0.06	6	107	211	2.41	4
MO7617	<0.5	0.21	0.48	0.75	0.03	0.21	0.92	1.5	0.03	7	131	169	2.54	3
MO7618	<0.5	0.18	0.41	0.71	0.04	0.23	0.51	1.9	0.07	6	98	148	2.49	3
MO7619	<0.5	0.15	0.26	0.58	0.03	0.30	0.38	1.0	<0.01	5	108	109	2.29	3
MO7620	<0.5	0.14	1.15	1.59	0.03	0.77	0.21	1.6	0.08	5	127	229	3.01	4
MO7621	<0.5	0.14	1.78	2.33	0.05	0.80	0.21	2.6	0.10	6	98	396	4.28	8
MO7622	<0.5	0.13	0.68	1.03	<0.01	0.57	0.36	0.6	0.04	>2	94	156	1.82	2
MO7623	<0.5	0.02	0.82	1.44	<0.01	0.48	0.94	<0.5	0.01	<2	110	510	2.48	2
MO7624	<0.5	0.13	1.82	2.67	0.24	0.97	0.72	2.8	0.18	10	69	635	6.58	18
MO7625	<0.5	0.15	0.74	1.20	<0.01	0.40	0.13	<0.5	0.04	<2	108	263	2.15	3
MO7626	<0.5	0.22	0.57	1.03	0.04	0.35	0.30	1.6	0.07	8	93	171	2.18	5
MO7627	<0.5	0.01	2.84	3.00	0.05	0.13	0.11	2.1	0.02	5	87	304	3.65	13
MO7628	<0.5	0.26	0.65	1.55	0.05	0.03	0.62	4.5	0.06	15	102	312	3.32	6
MO7629	<0.5	0.26	0.79	2.24	0.27	0.14	1.49	10.6	0.06	4	66	798	5.49	9
MO7630	<0.5	0.11	1.95	2.34	0.04	0.23	0.92	2.7	0.20	80	83	594	4.17	31
MO7631	<0.5	0.20	0.80	2.72	0.17	0.54	0.98	7.0	0.10	4	92	754	6.80	10
MO7632	<0.5	0.14	0.77	2.70	0.08	1.53	0.36	3.4	0.21	5	75	457	7.21	10
MO7633	<0.5	0.16	0.42	2.59	0.08	1.20	0.66	8.2	0.15	5	81	301	8.82	7
*Dup MO7615	<0.5	0.08	1.08	1.41	<0.01	0.92	0.31	0.6	0.05	2	116	227	2.10	2
*Dup MO7627	<0.5	0.01	2.86	3.02	0.05	0.13	0.11	2.0	0.02	5	89	303	3.64	12

MAR-07-2000 TUE 04:06 PM

FAX NO. 1

P. 02/05



XRAL Laboratories
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Work Order: 058749

Date: 07/03/00

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Element. Method. Det.Lim. Units.	Ni ICP70 1 ppm	Cu ICP70 0.5 ppm	Zn ICP70 0.5 ppm	As ICP70 3 ppm	Sr ICP70 0.5 ppm	Y ICP70 0.5 ppm	Zr ICP70 0.5 ppm	Mo ICP70 1 ppm	Ag ICP70 0.2 ppm	Cd ICP70 1 ppm	Sn ICP70 10 ppm	Sb ICP70 5 ppm	Ba ICP70 1 ppm	La ICP70 0.5 ppm
MO7615	4	11.5	32.8	63	18.2	73.8	39.7	1	<0.2	<1	<10	<5	84	30.5
MO7616	4	30.0	19.6	<3	24.3	37.7	12.9	<1	<0.2	<1	<10	<5	52	26.0
MO7617	3	22.2	24.9	4	23.9	46.6	23.9	<1	<0.2	<1	<10	<5	57	30.4
MO7618	4	3.6	33.1	<3	19.8	40.0	14.3	<1	<0.2	<1	<10	<5	51	30.1
MO7619	4	2.0	19.6	10	15.1	50.4	19.8	2	0.3	<1	<10	<5	70	36.3
MO7620	3	1.9	31.7	<3	7.5	37.3	35.6	2	<0.2	<1	<10	<5	104	21.6
MO7621	3	11.1	66.7	4	6.9	34.2	51.6	3	0.3	<1	<10	<5	121	18.7
MO7622	3	1.6	32.1	<3	13.9	105	48.5	1	<0.2	<1	<10	<5	49	25.5
MO7623	3	30.7	54.3	<3	14.9	77.1	43.9	<1	0.2	<1	<10	<5	66	20.8
MO7624	2	130	165	<3	14.9	15.0	16.7	2	0.5	2	<10	<5	131	15.6
MO7625	4	94.5	64.8	<3	8.3	47.2	27.0	1	<0.2	<1	<10	<5	52	18.0
MO7626	5	5.8	28.4	<3	17.5	46.9	15.4	1	<0.2	<1	<10	<5	65	17.6
MO7627	3	2.1	72.1	<3	1.1	23.4	65.0	<1	0.3	<1	<10	<5	25	24.6
MO7628	5	13.8	52.0	<3	7.0	34.1	17.3	<1	<0.2	<1	<10	<5	7	23.1
MO7629	2	2.0	96.2	<3	13.0	18.3	8.6	<1	<0.2	2	<10	<5	12	12.0
MO7630	57	83.0	58.0	<3	14.9	1.8	2.2	<1	0.4	<1	<10	<5	30	4.8
MO7631	2	2.8	96.0	<3	9.8	16.0	7.4	<1	0.3	2	<10	<5	147	13.1
MO7632	2	33.0	60.0	<3	10.0	18.1	7.7	<1	0.2	2	<10	<5	375	23.2
MO7633	<1	4.1	45.1	<3	8.9	26.5	7.6	<1	0.3	4	<10	<5	268	29.7
*Dup MO7615	3	13.2	33.9	67	19.5	79.9	37.6	1	<0.2	<1	<10	<5	91	32.9
*Dup MO7627	2	1.8	71.5	<3	1.0	23.8	63.6	<1	<0.2	<1	<10	<5	24	24.4

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Element. Method. Det. Lim. Units.	W ICP70 10 ppm	Pb ICP70 2 ppm	Bi ICP70 5 ppm	SiO2 XRF103 0.01 %	Al2O3 XRF103 0.01 %	CaO XRF103 0.01 %	MgO XRF103 0.01 %	Na2O XRF103 0.01 %	K2O XRF103 0.01 %	Fe2O3 XRF103 0.01 %	MnO XRF103 0.01 %	TiO2 XRF103 0.001 %	P2O5 XRF103 0.01 %	Cr2O3 XRF103 0.01 %
MO7615	<10	<2	<5	75.9	10.7	0.78	2.20	2.16	2.67	3.97	0.04	0.148	<0.01	0.02
MO7616	<10	<2	<5	71.9	12.2	1.99	0.95	4.61	1.47	4.83	0.04	0.420	0.06	0.02
MO7617	<10	<2	<5	72.9	11.9	1.61	1.21	4.70	1.29	4.54	0.02	0.406	0.06	0.03
MO7618	<10	<2	<5	72.7	12.3	1.40	1.08	4.70	1.39	4.73	0.03	0.426	0.06	0.02
MO7619	<10	<2	<5	73.2	12.4	0.69	0.96	3.79	2.22	4.75	0.02	0.414	0.06	0.03
MO7620	<10	<2	<5	73.6	11.0	0.38	2.40	2.80	2.19	5.47	0.05	0.505	0.05	0.02
MO7621	<10	<2	<5	71.0	10.9	0.65	3.48	2.61	1.61	7.46	0.08	0.542	0.08	0.02
MO7622	<10	<2	<5	76.1	11.0	0.88	1.52	3.45	1.94	3.54	0.03	0.165	>0.01	0.02
MO7623	<10	<2	<5	75.4	10.3	1.45	1.85	0.32	2.96	4.68	0.08	0.152	>0.01	0.02
MO7624	<10	<2	<5	56.2	12.5	4.69	3.52	2.43	1.25	14.7	0.19	1.617	0.56	0.01
MO7625	<10	<2	<5	76.5	10.8	1.06	1.57	3.30	1.37	3.96	0.05	0.160	>0.01	0.02
MO7626	<10	<2	<5	71.7	12.6	2.18	1.26	4.85	0.97	4.74	0.05	0.483	0.07	0.02
MO7627	<10	<2	<5	72.7	10.0	0.26	5.58	0.07	1.24	6.25	0.05	0.515	0.08	0.02
MO7628	<10	<2	<5	72.2	12.0	1.47	1.33	5.33	0.20	5.22	0.05	0.515	0.09	0.08
MO7629	<10	<2	<5	55.3	11.9	5.59	2.18	2.76	0.46	16.7	0.34	1.611	0.59	0.01
MO7630	<10	<2	<5	46.6	14.5	10.3	7.90	2.09	0.34	13.9	0.21	1.050	0.11	0.02
MO7631	<10	<2	<5	58.2	12.0	4.59	1.81	2.20	0.81	17.2	0.32	1.127	0.38	0.02
MO7632	<10	<2	<5	63.8	11.6	2.62	1.46	2.71	1.85	13.4	0.09	0.735	0.17	0.02
MO7633	<10	<2	<5	62.2	11.5	1.58	0.88	3.31	1.64	16.7	0.06	0.724	0.17	0.01
*Dup MO7615	<10	<2	<5	75.9	10.6	0.79	2.22	2.14	2.69	3.96	0.04	0.149	<0.01	0.02
*Dup MO7627	<10	<2	<5	72.6	9.94	0.27	5.56	0.07	1.22	6.24	0.05	0.516	0.08	0.02



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Element. Method. Det.Lim. Units.	LOI XRF103 0.01A %	Sum XRF103 0.01 %	Rb XRF103 2 ppm	Sr XRF103 2 ppm	Y XRF103 2 ppm	Zr XRF103 2 ppm	Nb XRF103 2 ppm	Ba XRF103 20 ppm
MO7615	1.45	100.2	50	60	253	490	42	508
MO7616	1.45	100.1	29	101	132	366	26	448
MO7617	1.45	100.2	32	96	127	363	27	405
MO7618	1.20	100.2	28	93	136	370	27	408
MO7619	1.50	100.2	45	81	137	375	27	636
MO7620	1.55	100.2	40	32	141	497	24	462
MO7621	1.70	100.3	32	29	197	691	28	368
MO7622	1.40	100.2	41	48	272	528	45	263
MO7623	2.90	100.2	47	26	243	474	41	478
MO7624	2.05	99.9	40	160	94	278	14	171
MO7625	1.35	100.3	27	51	265	516	43	279
MO7626	1.15	100.2	19	123	167	405	26	268
MO7627	3.35	100.2	17	7	194	675	29	281
MO7628	1.60	100.2	6	57	136	456	26	99
MO7629	1.20	98.7	2	79	89	265	12	49
MO7630	2.45	99.5	11	185	14	50	4	55
MO7631	1.15	99.9	17	79	95	272	11	194
MO7632	1.25	99.8	50	101	118	362	17	442
MO7633	1.45	100.3	50	50	120	300	17	364
*Dup MO7615	1.50	100.2	48	58	250	490	41	503
*Dup MO7627	3.30	100.0	19	5	192	673	30	279



Les Laboratoires XRAL Laboratories
Une Division de / A Division of SGS Canada Inc.

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Fax (819) 764-4673

your ref: 167700

our ref: 58863/R17860

CERTIFICAT D'ANALYSE/ASSAY CERTIFICATE

March 28, 2000

**TECK EXPLORATION LTD
R.R.#5 - 19 LEGAULT STREET
NORTH BAY, ONTARIO
P1B 8Z4**

ATTENTION: LOUIS MARTIN

Date soumis/ Submitted: March 01, 2000

No. of samples: 17

No. of pages: 5

ELEMENTS

METHOD

DETECTION LIMIT

Scan
Whole Rock analysis

ICP-70
XRF-103

Certifié par/Certified by:

J.J. Landers Gérant/Manager





LES LABORATOIRES XRAL LABORATORIES

UNE DIVISION DE / A DIVISION OF SGS CANADA INC.
 129 AVE. MARCEL BARIL • ROUYN-NORANDA • QUÉBEC J9X 7B9
 TÉL.: (819) 764-9108 FAX: (819) 764-4873

CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

R17860

Nom de la Compagnie/Company: Teck Exploration
 Bon de Commande No/ P.O. No:
 Projet/ Project No : 167700
 Date Soumis/ Submitted : Mar 01, 2000
 Attention : Louis Martin

Mar 08, 2000

No. D'Echantillon Sample No.	AU PPB	AU CHK PPB
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M07634	4	3
M07635	1	
M07636	1	
M07637	<1	
M07638	5	
M07639	2	
M07640	3	
M07641	1	
M07642	1	2
M07643	4	
M07644	7	
M07645	13	
M07646	4	
M07647	2	
M07648	1	
M07649	1	
M07650	1	

Certifié par / Certified by :



Membre du Groupe SGS (Société Générale de Surveillance)



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Element. Method. Det.Lim. Units.	SiO2 XRF103 0.01 %	Al2O3 XRF103 0.01 %	CaO XRF103 0.01 %	MgO XRF103 0.01 %	Na2O XRF103 0.01 %	K2O XRF103 0.01 %	Fe2O3 XRF103 0.01 %	MnO XRF103 0.01 %	TiO2 XRF103 0.001 %	P2O5 XRF103 0.01 %	Cr2O3 XRF103 0.01 %	LOI XRF103 0.01A %	Sum XRF103 0.01 %	Rb XRF103 2 ppm
M07634	49.8	15.1	8.31	6.70	3.60	0.14	12.4	0.19	1.000	0.24	0.03	2.50	100.1	4
M07635	76.0	11.3	0.53	1.28	4.25	1.77	3.85	0.04	0.163	<0.01	0.07	0.85	100.3	35
M07636	52.7	13.0	4.58	4.23	2.88	0.41	16.8	0.25	1.834	0.47	<0.01	2.20	99.4	8
M07637	71.9	12.2	1.52	1.13	4.51	1.70	4.83	0.06	0.369	0.04	0.02	1.75	100.2	32
M07638	53.1	12.5	6.50	2.80	3.09	0.41	16.3	0.27	1.865	0.44	<0.01	1.25	98.7	8
M07639	73.5	11.4	0.74	2.47	4.40	0.71	5.33	0.08	0.197	<0.01	0.02	1.30	100.3	22
M07640	75.6	10.8	0.71	2.15	1.77	2.90	4.38	0.07	0.198	<0.01	0.02	1.55	100.3	52
M07641	52.8	13.8	6.48	3.02	3.11	0.28	16.4	0.24	1.819	0.43	<0.01	1.95	100.3	3
M07642	61.0	17.0	2.00	3.11	3.98	2.32	7.04	0.09	0.765	0.22	0.02	2.55	100.2	78
M07643	60.5	16.7	2.20	3.24	4.29	1.47	7.34	0.08	0.769	0.19	0.02	3.40	100.3	41
M07644	58.7	16.6	2.67	3.46	4.26	1.32	7.99	0.10	0.805	0.18	0.01	3.50	99.7	37
M07645	58.6	16.2	3.21	3.62	4.40	1.07	8.10	0.09	0.862	0.20	0.02	3.75	100.3	29
M07646	59.3	17.0	1.66	4.00	5.29	1.02	7.95	0.08	0.827	0.18	0.02	2.75	100.1	33
M07647	59.9	17.3	1.67	3.18	4.06	1.98	7.76	0.10	0.713	0.19	0.02	2.80	99.8	63
M07648	69.3	15.0	1.41	2.13	3.74	2.27	3.30	0.05	0.334	0.10	0.03	2.45	100.3	75
M07649	70.4	11.5	1.59	4.22	0.75	2.49	4.85	0.15	0.171	>0.01	0.01	4.00	100.2	61
M07650	74.2	11.0	0.39	3.45	0.08	2.70	3.88	0.08	0.140	>0.01	0.02	4.50	100.5	69
*Dup M07634	50.0	15.0	8.28	6.68	3.58	0.14	12.4	0.19	0.993	0.24	0.03	2.50	100.1	4
*Dup M07646	59.2	16.9	1.66	3.98	5.26	1.02	7.95	0.08	0.824	0.18	0.02	2.85	100.0	33

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Element. Method. Det.Lim. Units.	Sr XRF103 2 ppm	Y XRF103 2 ppm	Zr XRF103 2 ppm	Nb XRF103 2 ppm	Ba XRF103 20 ppm	Be ICP70 0.5 ppm	Na ICP70 0.01 %	Mg ICP70 0.01 %	Al ICP70 0.01 %	P ICP70 0.01 %	K ICP70 0.01 %	Ca ICP70 0.01 %	Sc ICP70 0.5 ppm	Ti ICP70 0.01 %
M07634	146	26	136	3	29	<0.5	0.04	1.56	1.90	0.10	<0.01	0.51	1.3	0.05
M07635	26	249	507	42	336	<0.5	0.04	0.54	1.03	<0.01	0.73	0.22	0.8	0.06
M07636	123	78	241	11	70	<0.5	0.05	1.70	2.83	0.19	0.20	0.71	4.7	0.08
M07637	44	86	452	22	350	<0.5	0.05	0.46	1.13	0.03	0.66	0.84	2.7	0.08
M07638	199	74	222	9	89	<0.5	0.12	0.81	1.62	0.18	0.18	0.98	4.3	0.06
M07639	51	246	543	40	103	<0.5	0.06	1.19	1.64	<0.01	0.47	0.19	1.3	0.06
M07640	21	237	495	40	332	<0.5	0.04	0.93	1.28	0.01	0.83	0.36	>0.5	0.05
M07641	181	67	207	8	42	<0.5	0.08	1.11	2.28	0.18	0.08	0.96	3.7	0.08
M07642	237	24	201	11	602	<0.5	0.04	1.29	1.91	0.08	0.20	0.61	4.8	0.07
M07643	199	24	158	7	418	<0.5	0.05	1.49	2.36	0.08	0.08	1.07	3.9	0.05
M07644	172	28	144	6	301	<0.5	0.04	1.58	2.48	0.07	0.08	1.24	4.7	0.06
M07645	178	27	149	8	261	<0.5	0.04	1.67	2.54	0.08	0.06	1.71	5.4	0.04
M07646	122	19	153	8	256	<0.5	0.05	1.68	2.33	0.07	0.07	0.60	5.7	0.08
M07647	184	23	156	7	501	<0.5	0.04	1.33	2.18	0.07	0.13	0.56	5.7	0.06
M07648	158	12	116	7	575	<0.5	0.04	0.73	1.02	0.04	0.12	0.62	1.5	0.03
M07649	31	286	504	44	353	<0.5	0.02	1.70	1.70	>0.01	0.18	0.91	>0.5	>0.01
M07650	9	315	479	51	239	<0.5	0.02	1.41	1.50	>0.01	0.16	0.20	>0.5	>0.01
*Dup M07634	145	26	137	4	28	<0.5	0.03	1.46	1.79	0.09	>0.01	0.48	1.2	0.08
*Dup M07646	123	18	154	7	254	<0.5	0.05	1.69	2.34	0.07	0.07	0.60	5.9	0.08



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Element. Method. Det.Lim. Units.	V ICP70 2 ppm	Cr ICP70 1 ppm	Mn ICP70 2 ppm	Fe ICP70 0.01 %	Co ICP70 1 ppm	Ni ICP70 1 ppm	Cu ICP70 0.5 ppm	Zn ICP70 0.5 ppm	As ICP70 3 ppm	Sr ICP70 0.5 ppm	Y ICP70 0.5 ppm	Zr ICP70 0.5 ppm	Mo ICP70 1 ppm	Ag ICP70 0.2 ppm
M07634	34	132	611	3.55	20	59	14.8	64.3	<3	12.0	5.4	4.5	1	>0.2
M07635	3	65	290	2.14	5	1	2.9	40.7	<3	10.0	106	16.7	2	>0.2
M07636	16	29	943	6.99	19	2	8.2	143	<3	14.8	11.9	6.8	3	0.4
M07637	5	84	363	2.64	5	3	111	50.1	<3	15.7	45.1	17.1	1	<0.2
M07638	12	53	666	4.55	16	1	18.9	92.3	<3	25.8	12.3	4.7	2	0.3
M07639	5	100	524	3.11	5	3	17.7	72.3	<3	9.1	87.9	18.3	2	>0.2
M07640	3	88	434	2.29	1	2	19.7	68.4	<3	7.8	87.5	37.4	3	>0.2
M07641	14	47	822	5.87	19	1	41.9	117	<3	20.3	12.1	6.0	4	0.6
M07642	34	90	595	3.55	21	60	47.6	90.9	<3	50.2	8.6	12.2	4	0.3
M07643	54	73	547	4.20	25	50	46.7	139	15	38.9	6.1	12.8	2	0.4
M07644	61	75	666	4.52	23	48	50.0	862	14	36.2	5.2	10.4	2	0.3
M07645	65	79	622	4.63	25	48	70.9	71.5	<3	55.5	7.9	9.0	3	>0.2
M07646	69	80	535	4.28	29	52	20.8	65.7	<3	18.1	4.2	8.8	2	>0.2
M07647	46	75	637	4.14	27	58	43.1	87.1	18	32.4	7.4	8.3	2	0.4
M07648	11	57	328	1.51	9	19	9.7	43.3	6	25.0	5.0	13.2	2	0.2
M07649	3	55	936	2.25	3	3	22.1	741	<3	19.7	85.2	10.9	3	>0.2
M07650	<2	72	509	1.89	2	3	22.9	820	>3	3.9	114	10.1	2	>0.2
*Dup M07634	32	127	583	3.38	20	56	14.8	61.5	>3	11.3	5.1	3.5	2	>0.2
*Dup M07646	70	78	539	4.30	31	52	24.3	66.5	4	18.3	4.3	8.9	3	>0.2



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Element. Method. Det. Lim. Units.	Cd ICP70 1 ppm	Sn ICP70 10 ppm	Sb ICP70 5 ppm	Ba ICP70 1 ppm	La ICP70 0.5 ppm	W ICP70 10 ppm	Pb ICP70 2 ppm	Bi ICP70 5 ppm
M07634	<1	<10	<5	1	4.6	<10	3	<5
M07635	<1	<10	<5	88	33.4	<10	3	<5
M07636	<1	<10	6	52	8.7	<10	5	<5
M07637	<1	<10	<5	107	23.3	<10	3	<5
M07638	<1	<10	<5	66	6.6	<10	<2	<5
M07639	<1	>10	<5	73	20.5	<10	3	>5
M07640	<1	>10	<5	60	29.4	>10	>2	>5
M07641	<1	>10	<5	29	9.1	>10	>2	>5
M07642	<1	>10	5	53	20.6	>10	5	>5
M07643	<1	>10	5	24	16.0	<10	2	>5
M07644	4	<10	<5	16	13.0	<10	4	>5
M07645	<1	<10	6	13	16.5	<10	5	>5
M07646	<1	<10	<5	17	18.7	>10	>2	>5
M07647	<1	<10	6	36	15.7	<10	10	>5
M07648	<1	>10	<5	34	16.5	<10	15	>5
M07649	3	<10	>5	29	18.3	<10	3	>5
M07650	4	<10	<5	16	19.0	>10	3	>5
*Dup M07634	<1	>10	<5	<1	4.5	<10	2	>5
*Dup M07646	<1	>10	<5	18	18.3	>10	>2	>5

APPENDIX V
DOWNHOLE PULSE EM REPORT