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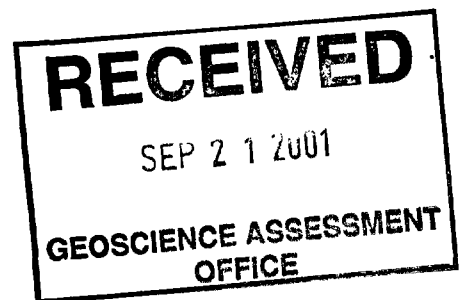
THE WINTER 2001 DIAMOND DRILLING PROGRAM

on the

BYNG PROPERTY

BYNG TOWNSHIP
NORTHEASTERN ONTARIO
NTS 42B/NW

BYNG PROPERTIES INC.



May 2001

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SUMMARY

The Byng project is located in northeastern Ontario, approximately 80 kilometres south of Hearst. The property consists of 3 contiguous and unpatented mining claims, for a total of 35 units.

Granitic rocks are reported to dominate the regional geology, but re-interpretation of old geophysical surveys and more recent multidisciplinary exploration programs (mapping, ground magnetics and HLEM) have indicated that the property is also underlain by intercalated mafic flows, interflow sediments, and minor mafic to felsic tuffs, probably representing the eastern extension to the Oba Greenstone Belt. The supracrustal rocks are amphibolitized, weak to moderately foliated, weakly folded, and dip northward at 70 to 90 degrees.

In January 2001, Byng Properties Inc. contracted Bradley Bros. Ltd and completed a diamond drilling program on the property. Four (4) holes were completed, for a total of 572 metres drilled. The objectives of the program were to follow-up on several HLEM anomalies possibly associated with base metal mineralization. All targeted HLEM anomalies intersected by the drilling were found to correlate with multiple-facies iron formations, ranging from oxide facies, to garnetiferous silicate facies, to sulphide facies iron formations. These "lean" iron formations are commonly sulphidized by variable amounts of pyrrhotite and pyrite, which occur as fine disseminations, to stringers and seams, to semi-massive bands up to 50 cm in width (i.e. BG01-3). Light yellow sphalerite occurs locally, up to perhaps 0.2% in places, and traces of chalcopyrite and galena have been noted. The base metal anomalies are generally weak, discontinuous, and narrow. **The most significant assay results include:**

- **2621 ppm Zn and 1237 ppm Pb over 4.2 m in drill hole BG01-2**, in association with a cherty tuffaceous iron formation, and
- **a weighted average of 3479 ppm Zn, 742 ppm Pb, and 336 ppm Ni over 6.4 m in drill hole BG01-3**, in association with remobilized sulphides contained within quartz stockwork veining, accompanied by brecciated intermediate to felsic feldspar-porphyry dykelets and hosted by brecciated mafic rocks.

Sulphide mineralization (albeit not always associated with base metals) intersected in drill core and as indicated from the HLEM data is more important within the western half of the property. Intermediate to felsic rocks, deemed more favourable for VMS-style mineralization, have also been reported by Barber (2000) near the west boundary of the property. In light of these observations, it is recommended that a compilation of all available property and regional geoscientific data be prepared. This may help to vector-in on a more favourable environment for base metal mineralization, possibly in a westerly direction.

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**BYNG PROPERTIES INC.
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1.0 INTRODUCTION

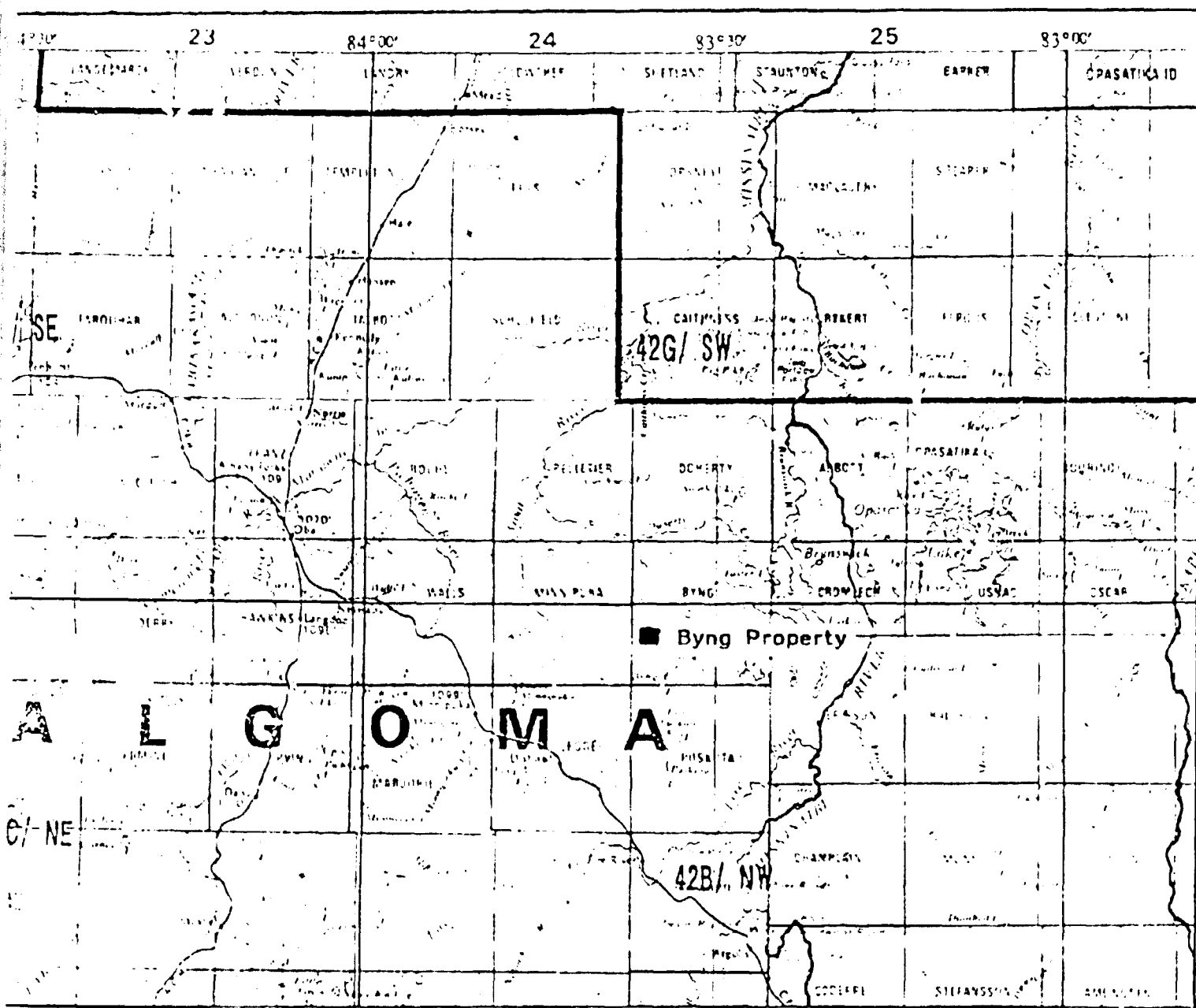
1.1 Location and Access

The Byng project is located in northeastern Ontario, approximately 80 kilometres south of Hearst. The property lies in the west-central portion of Byng Township, within the Porcupine Mining Division (claim map G-2294), and is covered by NTS sheet 42B/NW - see Figure 1.

Byng Township is reached from Hearst by driving south for approximately 100 kilometres onto a gravel road commonly referred to as the Levesques Road (Bradlo Road). This private gravel road is in good condition, but maintenance during the winter months is only assured during active logging and hauling operations. The center of the property is then accessed by driving 6 kilometres east towards Brunswick Lake. Several additional old logging roads and trails also transect the property in all directions.

1.2 Physiography

Minor swampy areas, low-lying rolling hills, and gravelly-sand ridges characterize the physiography. The area was previously logged and is now poorly vegetated, mainly by poplar, alder, cedar and tamarack, and minor spruce and balsam fir. Outcrop exposure nears 5%, and is fairly well distributed across the property. The overburden appears generally shallow (less than 7 metres?), and consists of gravelly sand to silty-clays. Creeks and streams are not well developed, and a small pond located in the central part of the claim group represents the only reliable source of water for drilling in the winter time.



Scale: 1:500,000

Property Location



Figure 1

1.3 Property and Tenure

The property consists of 3 contiguous unpatented mining claims, for a total of 35 units. Claim P 1230140 was recorded in September 1997, and the two other ones were more recently recorded in May 2000. All claims are in good standing, and are 100% held by Byng Properties Inc. (see Table 1 and Figure 2).

Claim #	Units
P 1241373	10
P 1241386	10
P 1230140	15
Total: 3	35

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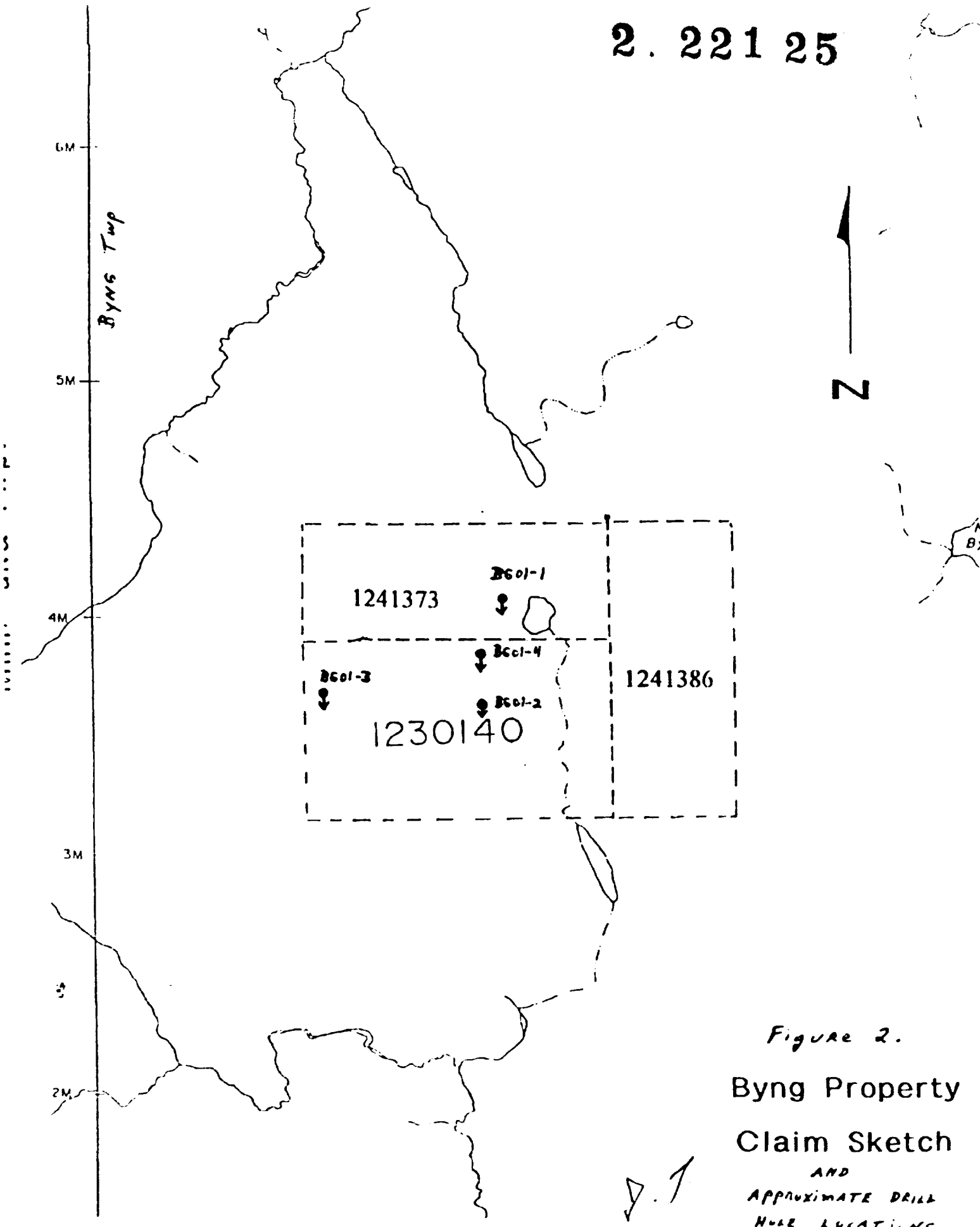


Figure 2.
Byng Property
Claim Sketch
AND
APPROXIMATE DRILL
HOLE LOCATIONS

1.4 Previous Work

Previous exploration work in the area is summarized below from an excerpt from Barber (2000b):

"Aside from the regional mapping of Thurston et al. (1975) very little work has been done in Byng Township

Three short diamond drill holes were put down on the east side of the property several years ago. "Good results" were reported to have been obtained, but no hard data is available regarding the results. These holes have been located by Mr. Lecours.

In 1987 and 1988, Golden Trio Resources carried out ground magnetometer, HLEM and geology surveys over much of Minnipuka Twp. This was followed up by several diamond drill holes, some of which intersected low zinc and copper values.

In 1990, Noranda Ltd. and Canamax Resources Ltd. Carried out an airborne magnetometer survey over parts of Minnipuka, Byng and Puskuta Townships. Several targets were followed up by diamond drilling. Lithologies intersected included amphibolitic volcanics, quartz-sericite schist and garnetiferous gneisses. Assays were generally disappointing with only occasional anomalous base metal values being noted, up to 1550 ppm Zn and over 800 ppm Cu. Silver values up to 1.0 g/t were also intersected. It is not certain whether all assays were filed for assessment, however."

The Byng property was staked by the Lecours in the late 1990's. They prospected, conducted a beep-mat survey, and performed limited trenching in various areas of interest. Some claims were allowed to lapse and were subsequently restaked. In 1998, mechanical stripping, geological mapping and sampling were conducted on the S1, S2, and S3 sulphide showings. Additional stripping and mapping was carried-out in 1999 and 2000 (Barber 2000a, Barber 2000b). Assays up to 1.75% Cu and 1.05% Zn have been obtained from pyrite-pyrrhotite-chalcopyrite mineralization in association with tuffaceous chert-magnetite horizons. From July to September 2000, 69.5 kilometres of grid lines were cut, followed by a ground magnetometer and HLEM survey conducted by Exsics Exploration Ltd. of Timmins, On. (Grant 2000); The surveys outlined a number of geological trends and conductive zones across the property, several of which warranted testing

1.5 The Winter 2001 Diamond Drilling Program and Objective

Exploration work on the Byng property has indicated several areas of significant sulphide mineralization (mainly pyrite, pyrrhotite, and minor chalcopyrite) in

association with tuff-chert-magnetite horizons located within a package of intercalated mafic flows, and minor intermediate to possibly felsic volcanics. Recent ground geophysical surveys also confirmed the presence of several linear bedrock conductors roughly coincident or spatially associated with magnetic highs. These observations and previous assay results indicated a potential for significant base metal mineralization on the property.

The objective of the current drilling program was to test several of these HLEM conductors. A total of four diamond drill holes, totalling 572 metres, were completed between January 16 and 26, 2001 (see Table 2). The drilling was carried-out by Bradley Bros. Ltd. of Timmins, Ontario. Core logging was performed by contractor-geologist Jacques Samson, and core-splitting was completed by Gerald Lecours of Byng Properties Inc.

Only the current drilling program will be discussed within this report. Historical work relevant to this exploration program will be briefly summarized below from previous documents.

2.0 GEOLOGY

2.1 Regional Geology (excerpt from Barber 2000b)

The regional geology has been described by Thurston et al (1975). Map 2221 shows the area to be underlain mainly by granite and granitic gneisses. A band of mafic volcanics and associated sediments trends southeastward from Minnipuka and southwestern Byng Townships to northern Coderre Township. The band is generally not more than 2 km wide and probably represents a remnant of a larger "greenstone" belt which is present to the west.

Airborne magnetics surveys flown by the G.S.C. clearly show an east-west trend of high magnetics branching off of the main mafic volcanic band. It is on this east-west trend that the Byng property is located.

The volcanics and sediments have been metamorphosed to at least middle amphibolite facies.

2.2 Property Geology and Mineralization

The geology of the Byng property has been established from various investigations, prospecting, sampling, and mapping programs carried-out since 1997. Stripped areas were mapped at a detail scale of 1:250 (Barber 1998), and a geological map covering the entire property was also produced at a scale of

1:5000 (Barber 2000).

The geology is described as consisting of a series of massive to pillowed and brecciated mafic flows, alternating with narrow mafic tuffs, and minor intermediate to felsic tuffaceous sediments. Several "lean" amphibolitic iron formations (magnetite-/chert-/sulphides-/garnets) are also found, and these are now easily traceable from the recent ground magnetometer data (Grant 2000). The supracrustal rocks are weak to moderately foliated, amphibolitized, and generally trend east-southeasterly, dipping northward at 70 to 90 degrees, with possible facing direction to the north. The units appear to be warped into a broad open S-fold, the axial plane of which trends east-northeast (Barber 2000). Narrow gabbro to diorite dykes and sills (possibly synvolcanic) are locally exposed, and a pyroxenite body has been observed in the southeast part of the property. Granite to granodiorite, locally gneissic, and intermediate to felsic feldspar porphyry dykes, and other granitic to pegmatitic rocks commonly occur, mainly in the east, south, and northwest portion of the property. Proterozoic diabase dykes intrude all rock types, and generally trend northwesterly.

To date, mineralization on the Byng property was described as consisting primarily of disseminated to locally semi-massive pyrite and pyrrhotite, with minor chalcopyrite, occurring within the amphibolitic iron formations or in association with chert bands. At least three sulphide occurrences have been discovered, stripped, mapped, and sampled since 1997 (the S1, S2, and S3 showings). Grab and chip samples have reportedly yielded assays up to 1.75% Cu and up to 1.07% Zn, but the base metal mineralization appeared to be confined to narrow and discontinuous pods contained within laterally easily traceable sulphidized horizons (Barber 2000).

3.0 DIAMOND DRILLING RESULTS

Four diamond drill holes were completed by Bradley Bros Ltd (Timmins, ON) between January 16 to 26, 2001, for a total of 572 metres drilled. Approximately 27% of the BQ-size core was cut in half using a diamond blade core-saw, and 134 samples were sent for analyses to Chemex Labs Ltd. in Thunder Bay, On. The samples were analysed for base metals and other elements by ICP (partial digestion) method. All samples were also analysed for gold using FA-AA methods. Drill hole statistics are given in Table 2, and the general collar locations are indicated on Figure 2. A brief description of each drill hole is given below, followed by summary logs (Table 3), plan maps and drill sections (Figure 3 to 10). A list of partial assay results is found in Table 4. Drill logs are found in Appendix 1, and the certificates of analyses are included in Appendix 2. All downhole intervals and assays results discussed within this report refer to "apparent" or "drilled" widths".

Table 2. Winter 2001 Diamond Drill Hole Statistics - Byng Project

Hole Number	Easting	Northing	Claim No.	Date	Casing (m)	Length (m)	Dip	Azimuth	Target	Sample Numbers From	To	Samples taken	Metres sampled	% of core sampled
BG01-1	1+00W	4+00N	1241373	21/01/01 to 22/01/01	7.0	119.0	-45	180	Test the HLEM conductor "A"	1049	1086	38	40.4	36
BG01-2	3+00W	4+17S	1230140	18/01/01 to 20/01/01	10.0	149.0	-45	180	Test the HLEM conductor "C"	1001	1048	48	53.1	38
BG01-3	14+00W	2+70S	1230140	23/01/01 to 24/01/01	7.0	161.0	-45	180	Test the HLEM conductor "B"	1088	1099	37	38.3	25
										1101	1125			
BG01-4	3+00W	0+35N	1230140	24/01/01 to 26/01/01	7.0	143.0	-60	180	Test the HLEM conductor "E" at depth, below the S3- showing.	1128	1138	11	14.8	11
Total (m):						572.0						134	146.6	27

*Samples 1087, 1100, 1126 & 1127 not analysed

BG01-1:

Drilled hole BG01-1 was collared at L1-00W/4+00N, and was drilled south at -45 degrees in order to test HLEM anomaly "A". The conductor extends over 400 metres in a west-northwesterly direction, and correlates to the southern flank of a good magnetic high unit (Grant 2000). The drill hole intersected a series of pillowed to brecciated mafic flows, weak to moderately foliated, seemingly grading locally into massive flows and/or synvolcanic dykes. The mafic rocks are amphibolitized, locally display weak patchy epidotization and discrete brownish biotite stringers, and locally contain fine leucoxene and garnets. A chert horizon was intersected from 61.2 to 62.2 m, accompanied by 1-2% dusty pyrite disseminations, and wisps of pyrrhotite-pyrite. A weak garnetiferous iron-formation was also intersected from 71.0 to 71.5 m, seemingly comprised of poorly laminated chert-magnetite and mafic tuffaceous sediments. It contains 2-3% pyrrhotite, minor pyrite (0.1%), and a possible trace of sphalerite. **The most significant mineralization, believed to correlate with the HLEM anomaly, was intersected from 85.8 to 93.2 m, in association with a strongly garnetiferous mafic rock (mafic tuff?).** The unit is weakly chloritic to biotitic, moderately foliated to weakly folded and or contorted, and contains 0.5 to 20% pyrrhotite-pyrite (ratio 90:10) disseminations, stringers, and semi-massive bands up to 15 cm across. The host rock gradually becomes more massive in a downhole direction, is weakly epidotized, and sulphide mineralization dissipates to a trace. The drill hole was terminated at a depth of 119.0 m.

Geochemical analyses of the mineralized intervals yielded no economic or geochemically significant results.

BG01-2:

Drilled hole BG01-2 is located at L3+00W/4+17S, and was drilled at azimuth 180 in order to test HLEM anomaly "C", which appears to be roughly coincident with narrow iron formations exposed at stripped area "S1" and "S2", located 300 m further west. A unit of interbedded mafic tuffs and sediments was intersected from 10.0 to 41.3 m. The rocks are strongly amphibolitized, are locally garnetiferous, and contain minor narrow magnetite iron-formations in places. The unit is followed by a fault zone from 41.3 to 53.3 m, characterized by very strong fracturing, local gouge, and several intermediate to felsic dykes (granitoids). Massive mafic flows and or synvolcanic dykes are predominant from 53.3 to 70.4 m. They are essentially unaltered, but **the presence of light yellow sphalerite wisps, seams, and stringers mainly parallel to the foliation is for the first time notable near 69.3 m, seemingly increasing in abundance in**

a downhole direction (southward), up to perhaps 1% locally (<0.3% overall). The rocks grade into a lean iron-formation from 70.4 to 89.5 m, and from 110.5 to 119.0 m, comprised of pseudo-laminated to banded chert, and cherty to tuffaceous interflow sediments, weakly silicified to chloritized, garnetiferous, predominantly dipping at 58 degrees to core-axis and locally tightly folded. Magnetite, pyrite, and lesser pyrrhotite occur as disseminations, seams, stringers and semi-massive stringer-bands, parallel to the foliation, up to 2% locally. Minor sphalerite (up to 0.1%), trace chalcopyrite and trace galena (ie. 71.1 m) are also noted. A series of granodioritic to locally feldspar-porphyrific dykes and dykelets is common throughout the drill hole, and predominates from 89.5 to 110.5 m, thereby cross-cutting the iron-formation. Another dyke, seemingly more dioritic in composition, occurs from 119.0 to 121.0 m. The remnants of the iron-formation extend beyond 121.0 m, where the rocks are still pseudo-banded, displaying variable amounts of amphiboles to chloritic amphiboles, magnetite, and pinkish porphyroblastic garnets. The rocks are moderately foliated, weakly folded locally, and contain no more than 1% sulphides (pyrite, pyrrhotite, and trace sphalerite), which decrease to <0.2% beyond 125.6 m. The drill hole was stopped at a depth of 149.0 m.

Assay results yielded a weighted average of **2621 ppm Zn and 1237 ppm Pb** over 4.2 m from 69.3 to 73.5 m, including 8710 ppm Zn, 3980 ppm Pb and 683 ppm Cu over 0.9 m. No other significant results were obtained.

BG01-3:

BG01-3 was collared near the west property boundary, at L14+00W/2+70S, in order to test HLEM anomaly "B" at its location of strongest conductivity response. This anomaly lies on the southern flank of a narrow magnetic high, and represents the most significant conductor on the property (Grant 2000). The drill hole intersected 7 m of overburden, followed predominantly by a series of mafic massive to pillowed flows and occasional synvolcanic mafic dykes from a depth of 7.0 to 84.5 m. The units are cross-cut by several fault zones, and have been intruded by a swarm of late granodioritic dykes, non- to weakly foliated, and essentially non-mineralized. **Notably however, about 30% bull-white quartz stockwork occurs from 60.4 to 68.0 m**, accompanied by brecciated intermediate to felsic feldspar-porphyrific dykelets and hosted by brecciated mafic rocks. The quartz veins and the angular wallrock fragments contain up to 0.5% disseminated sulphides, perhaps 0.1% overall, comprising galena, chalcopyrite, pyrite, sphalerite, and trace pyrrhotite. **The 6.4 m interval located from 60.4 to 66.8 m yielded a weighted average of 3479 ppm Zn, 742 ppm Pb, and weakly anomalous Cu and Ni values locally, up to 522 and 659 ppm respectively.** A garnetiferous mafic rock, possibly a tuff, occurs from 84.5 to 101.7 m. The unit is intermixed and/or cross-cut by peculiar felsic rocks which were locally derived from recrystallized chert, but locally appear tuffaceous, and in other places

present characteristics similar to narrow amphibole(?)-phyric felsic dykelets. **The unit takes on the characteristics of a cherty iron-formation and is strongly mineralized from 87.5 to 101.7 m, with stringers to massive sulphide bands up to 50 cm wide, consisting mainly of pyrrhotite, minor pyrite, magnetite, and possible trace of sphalerite and chalcopyrite. Overall, the interval contains 7 to 10% sulphides, and is coincident with the targeted HLEM anomaly, but no significant assay results were obtained.** A sequence of poorly interbedded intermediate to felsic tuffs and cherty tuffs occurs from 101.7 to 139.5 m. All units are weakly garnetiferous, but the felsic intervals appear weakly sericitized whereas the mafic to intermediate units are preferentially chloritized. Pyrite-pyrrhotite disseminations, wisps and stringers, occur throughout the interval, 0.5% and gradually decreasing downhole. From 139.5 to the end of the hole at 161.0 m, the tuffaceous rocks appear predominantly intermediate to locally mafic in composition. They are weakly garnetiferous, weakly chloritic, and contain 0.1 to 0.2% sulphides. The interval is cross-cut by another swarm of granodioritic to feldspar porphyritic dykes, and several monzonitic dykes.

BG01-4:

Drill hole BG01-4 was drilled south at an inclination of minus 60 degrees, on L3+00W/0+35N. The objectives of the hole were to pursue a weak and possibly deep HLEM anomaly (anomaly "E") roughly located under the S3 showing, where significant mineralization has been reported (Barber 2000). Following 7.0 m of overburden, a relatively unaltered and non-foliated dyke was intersected from 7.0 to 22.2 m. The dyke is monzonitic to dioritic in composition, and varies from equigranular to weakly feldspar porphyritic in places. A sequence of pillowed to massive mafic flows occurs from 22.2 to 92.5 m, amphibolitized, weakly biotitic to chloritic, and essentially unmineralized. The volcanics are cross-cut by several narrow fault zones, and by several intermediate to felsic dykelets and feldspar porphyries, seemingly closely related to the dyke previously intersected near the top to the hole. An essentially non-mineralized and weakly altered intermediate tuff to lapilli tuff, possibly intermixed with minor fine clastic and chemical sediments occurs from 92.5 to 115.5 m. **A weakly mineralized tuff occurs from 116.2 to 131.2 m, predominantly mafic in composition, intermixed with minor possible clastic sediments and recrystallized chert.** The rocks are moderate to strongly magnetic, with fine disseminated to stringer magnetite throughout. It is weak to moderately chloritized and biotitic, garnetiferous, perhaps weakly silicified, moderately foliated to locally folded. Mineralization consists of pyrrhotite-pyrite disseminations to stringer bands up to 10 cm wide, 1% overall. **The mineralization is associated with weak and sporadic base metal anomalies, up to 691 ppm Cu and 742 ppm Zn locally.** The "lean" iron formation is intruded by a massive granodiorite to monzonite dyke or sill, which appears to have displaced the iron formation in a northward direction, and this is supported by the marked curvature of HLEM conductor "E", which trends in a

northeastward direction. The intrusive was coarsening in a downhole direction suggesting that the intrusive might be fairly thick at that location, and the hole was therefore stopped at 143.0 m.

Table 3.
Summary Drill Logs
Winter 2001 Drilling Program - Byng Project

** BORSURV SUMMARY LITHO LOG **

PROPERTY: BYNG
HOLE NO: BG01-1

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FROM	TO	LITHOLOGICAL UNIT
0.00	7.00	OVERBURDEN
7.00	18.20	MASSIVE MAFIC FLOW
18.20	20.50	MAFIC DYKE/MASSIVE FLOW
20.50	22.10	Diorite to Feldspar-Porphyry Dyke
22.10	25.50	MAFIC DYKE/MASSIVE FLOW
25.50	35.20	PILLOWED TO BRECCIATED MAFIC VOLCANIC
35.20	37.20	Fault Zone
37.20	61.20	PILLOWED TO BRECCIATED MAFIC VOLCANIC
61.20	62.20	Chert-Sulphide Iron-Formation
62.20	63.10	Intermediate Dyke
63.10	65.40	Intermediate to Felsic Feldspar Porphyry
65.40	71.00	MASSIVE MAFIC FLOW
71.00	71.50	MINERALIZED CHERTY MAFIC TUFF/IRON-FORMATION
71.50	78.50	GARNETIFEROUS MASSIVE TO BRECCIATED MAFIC FLOW
78.50	81.00	WEAKLY MINERALIZED MAFIC VOLCANIC
81.00	85.80	MASSIVE MAFIC VOLCANIC FLOW
85.80	93.20	SULPHIDIC GARNETIFEROUS MAFIC ROCK/IRON-FORMATION
93.20	97.30	MODERATELY MINERALIZED MAFIC VOLCANIC FLOW
97.30	108.80	MASSIVE MAFIC FLOW
108.80	115.40	WEAKLY MINERALIZED SHEARED MAFIC VOLCANIC
115.40	119.00	MASSIVE MAFIC VOLCANIC FLOW

** BORSURV SUMMARY LITHO LOG **

PROPERTY: BYNG
 HOLE NO: BG01-2

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FROM	TO	LITHOLOGICAL UNIT
0.00	10.00	OVERBURDEN
10.00	13.10	INTERBEDDED MAFIC TUFF AND SEDIMENTS
13.10	14.30	Intermediate to Felsic Feldspar Porphyry
14.30	21.80	INTERBEDDED MAFIC TUFF AND SEDIMENTS
21.80	23.70	Intermediate to Felsic Feldspar Porphyry Dyke
23.70	33.60	INTERBEDDED MAFIC TUFF AND SEDIMENTS
33.60	34.80	Intermediate to Felsic Feldspar Porphyry Dyke
34.80	39.10	INTERBEDDED MAFIC TUFF AND SEDIMENTS
39.10	41.30	Intermediate Dyke/Diorite
41.30	52.20	MAFIC ROCKS AND VARIOUS DYKES/FAULT ZONE
52.20	53.30	Intermediate to Felsic Feldspar Porphyry
53.30	56.20	MASSIVE MAFIC FLOW TO SYNVOLCANIC DYKE
56.20	57.30	Intermediate to Felsic Feldspar Porphyry Dyke
57.30	62.10	MASSIVE MAFIC FLOW TO SYNVOLCANIC DYKE
62.10	65.30	INTERMEDIATE TO FELSIC FELDSPAR PORPHYRY
65.30	67.50	MASSIVE MAFIC FLOW
67.50	69.30	Intermediate to Felsic Feldspar Porphyry Dyke
69.30	70.40	MASSIVE MAFIC FLOW
70.40	89.50	CHERTY INTERFLOW SEDIMENTS/LEAN IRON-FORMATION
89.50	110.50	GRANODIORITE TO FELDSPAR PORPHYRY DYKE
110.50	119.00	INTERFLOW SEDIMENT AND TUFF/LEAN IRON-FORMATION
119.00	121.00	DIORITIC DYKE
121.00	136.30	GARNETIFEROUS MAFIC TUFF AND SEDIMENT
136.30	138.60	Diorite Dyke
138.60	149.00	GARNETIFEROUS MAFIC TUFF AND SEDIMENT

** BORSURV SUMMARY LITHO LOG **

PROPERTY: BYNG
 FILE NO: BG01-3

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FROM	TO	LITHOLOGICAL UNIT
0.00	7.00	OVERBURDEN
7.00	8.60	MASSIVE MAFIC VOLCANIC
8.60	9.80	Granodiorite Dyke
9.80	16.40	MASSIVE MAFIC VOLCANIC
16.40	18.30	Granodiorite Dyke
18.30	20.80	MASSIVE MAFIC VOLCANIC
20.80	24.30	GRANODIORITE DYKE
24.30	28.00	Fault Zone
28.00	29.30	GRANODIORITE DYKE
29.30	33.00	MASSIVE MAFIC DYKE/FLOW AND FAULT ZONE
33.00	40.10	GRANODIORITE DYKE
40.10	43.00	MASSIVE MAFIC DYKE/FLOW AND FAULT ZONE
43.00	46.10	PILLOWED MAFIC FLOW
46.10	46.70	MAFIC DYKE/FLOW
46.70	48.00	Intermediate Feldspar Porphyry Dyke/Tuff
48.00	51.30	MAFIC DYKE/FLOW
51.30	53.20	Mafic to Intermediate Tuff to Lapilli Tuff?
53.20	60.40	MAFIC DYKE/FLOW
60.40	68.00	MAFIC VOLC., FELDSPAR PORPH., AND QTZ STOCKWORK
68.00	68.60	GRANODIORITE DYKES, MAFIC VOLCANIC/FAULT ZONE
68.60	71.00	Mafic Tuff and Sediment/Iron Formation
71.00	84.50	GRANODIORITE DYKES, MAFIC VOLCANIC/FAULT ZONE
84.50	87.50	GARNETIFEROUS MAFIC TUFFS, FELSIC ROCKS, CHERT
87.50	101.70	Strongly Mineralized/Iron-Formation
101.70	139.50	INTERBEDDED INTERMEDIATE TO FELSIC TUFFS

2001/2/28

Page 2

PROPERTY: BYNG
FILE NO: BG01-3

FROM	TO	LITHOLOGICAL UNIT
139.50	139.60	INTERMEDIATE TO MAFIC TUFFS
139.60	141.20	Granodiorite to Feldspar Porphyry Dyke
141.20	142.00	INTERMEDIATE TO MAFIC TUFFS
142.00	144.80	Monzonitic Dyke
144.80	148.20	Intermediate to Felsic Feldspar Porphyry Dyke
148.20	150.20	INTERMEDIATE TO MAFIC TUFFS
150.20	152.00	Monzonitic Dyke
152.00	156.10	INTERMEDIATE TO MAFIC TUFFS
156.10	159.70	Monzonitic Dyke
159.70	161.00	INTERMEDIATE TO MAFIC TUFFS

** BORSURV SUMMARY LITHO LOG **

PROPERTY: BYNG
 FILE NO: BG01-4

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FROM	TO	LITHOLOGICAL UNIT
0.00	7.00	OVERBURDEN
7.00	22.20	MONZONITE TO DIORITE DYKE
22.20	38.00	PILLOWED MAFIC VOLCANIC
38.00	39.40	Monzonitic Dyke
39.40	40.30	PILLOWED TO MASSIVE MAFIC VOLCANIC
40.30	41.50	Monzonitic Dyke
41.50	51.20	PILLOWED TO MASSIVE MAFIC VOLCANIC
51.20	52.90	Intermediate Feldspar Porphyry Dykes
52.90	58.20	PILLOWED TO MASSIVE MAFIC VOLCANIC
58.20	59.00	Intermediate Dyke
59.00	60.50	Intermediate Dyke/Fault Zone
60.50	63.50	PILLOWED TO MASSIVE MAFIC VOLCANIC
63.50	65.70	Intermediate to Felsic Feldspar Porphyry Dyke
65.70	83.00	PILLOWED TO MASSIVE MAFIC VOLCANIC
83.00	84.20	Fault Zone
84.20	92.50	PILLOWED TO MASSIVE MAFIC VOLCANIC
92.50	112.20	INTERMEDIATE TUFF, LAPILLI TUFF, AND SEDIMENT?
112.20	113.60	Intermediate to Felsic Feldspar Porphyry
113.60	115.50	INTERMEDIATE TUFF, LAPILLI TUFF, AND SEDIMENT?
115.50	131.20	MINERALIZED TUFF, SEDIMENTS, AND IRON FORMATION
131.20	143.00	GRANODIORITE TO MONZONITE DYKE

Table 4.
Partial Assay Results
Winter 2001 Drilling Program - Byng Project

TABLE 4. Partial Assay Results from the Winter 2001 Diamond Drill Program - Byng Project.

HOLE NUMBER	SAMPLE NUMBER	From (m)	To (m)	Interval (m)	Au ppb	Ag ppm	As ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
BG01-01	1049	50.0	51.3	1.3	<5	<0.2	<2	24	1	34	<2	28
BG01-01	1050	51.3	51.8	0.5	25	<0.2	<2	22	147	10	48	24
BG01-01	1051	51.8	53.0	1.2	<5	<0.2	<2	64	1	41	<2	30
BG01-01	1052	59.0	60.0	1.0	<5	0.4	<2	196	5	29	<2	88
BG01-01	1053	60.0	61.2	1.2	<5	<0.2	<2	79	1	19	<2	22
BG01-01	1054	61.2	62.2	1.0	<5	<0.2	2	89	3	30	6	100
BG01-01	1055	62.2	63.1	0.9	<5	<0.2	<2	32	5	59	2	164
BG01-01	1056	63.1	64.0	0.9	25	<0.2	<2	16	69	7	24	58
BG01-01	1057	69.5	71.0	1.5	<5	<0.2	2	47	2	27	<2	30
BG01-01	1058	71.0	71.5	0.5	<5	0.8	<2	210	9	99	6	244
BG01-01	1059	71.5	73.0	1.5	<5	<0.2	<2	70	5	137	<2	68
BG01-01	1060	77.5	78.5	1.0	<5	<0.2	<2	62	1	119	<2	82
BG01-01	1061	78.5	79.8	1.3	<5	0.2	<2	58	4	82	<2	66
BG01-01	1062	79.8	81.0	1.2	<5	<0.2	<2	51	3	79	<2	56
BG01-01	1063	81.0	82.0	1.0	<5	0.2	<2	69	3	109	<2	82
BG01-01	1064	82.0	83.4	1.4	<5	<0.2	2	56	4	92	<2	72
BG01-01	1065	83.4	84.8	1.4	<5	<0.2	<2	48	1	64	<2	62
BG01-01	1066	84.8	85.8	1.0	<5	<0.2	2	45	2	50	<2	54
BG01-01	1067	85.8	87.0	1.2	<5	<0.2	2	26	6	65	<2	314
BG01-01	1068	87.0	88.0	1.0	<5	1.4	2	209	14	130	<2	116
BG01-01	1069	88.0	89.0	1.0	<5	1.4	<2	186	11	129	4	100
BG01-01	1070	89.0	90.0	1.0	<5	1.0	2	72	8	90	<2	104
BG01-01	1071	90.0	91.0	1.0	70	0.2	<2	22	4	70	<2	80
BG01-01	1072	91.0	92.0	1.0	<5	0.4	<2	51	5	77	<2	96
BG01-01	1073	92.0	93.2	1.2	<5	<0.2	2	46	4	83	<2	140
BG01-01	1074	93.2	93.7	0.5	<5	0.2	<2	46	7	106	<2	80
BG01-01	1075	93.7	94.9	1.2	<5	<0.2	<2	44	3	61	<2	64
BG01-01	1076	94.9	96.1	1.2	<5	<0.2	2	61	4	82	<2	18
BG01-01	1077	96.1	97.3	1.2	<5	<0.2	2	82	3	68	<2	32
BG01-01	1078	97.3	98.3	1.0	<5	<0.2	2	28	16	40	<2	38
BG01-01	1079	107.3	108.8	1.5	<5	<0.2	<2	44	1	30	<2	34

BG-AIICP xls

HOLE NUMBER	SAMPLE NUMBER	From (m)	To (m)	Interval (m)	Au ppb	Ag ppm	As ppm	Cu ppm	Mo ppm	Hg ppm	Pb ppm	Zn ppm
BG01-01	1080	108.8	110.0	1.2	<5	<0.2	<2	50	11	65	<2	44
BG01-01	1081	110.0	111.1	1.1	<5	<0.2	<2	31	3	65	<2	28
BG01-01	1082	111.1	112.3	1.2	<5	0.2	<2	39	3	72	<2	38
BG01-01	1083	112.3	113.4	1.1	<5	0.2	<2	34	4	59	4	48
BG01-01	1084	113.4	114.0	0.6	<5	<0.2	<2	6	1	14	4	70
BG01-01	1085	114.0	114.7	0.7	<5	<0.2	<2	23	1	31	<2	52
BG01-01	1086	114.7	115.4	0.7	<5	<0.2	<2	10	1	15	<2	66
BG01-02	1001	13.1	14.3	1.2	<5	<0.2	<2	38	1	70	6	62
BG01-02	1002	14.3	15.2	0.9	10	0.2	<2	104	3	23	<2	140
BG01-02	1003	15.2	16.2	1.0	<5	<0.2	<2	40	1	23	<2	82
BG01-02	1004	16.2	17.3	1.1	<5	<0.2	<2	66	<1	36	<2	38
BG01-02	1005	17.3	18.2	0.9	<5	<0.2	<2	110	1	55	<2	60
BG01-02	1006	18.2	19.4	1.2	<5	<0.2	2	73	1	35	<2	68
BG01-02	1007	19.4	20.5	1.1	<5	<0.2	2	76	1	29	<2	62
BG01-02	1008	20.5	21.8	1.3	<5	<0.2	<2	151	4	19	2	108
BG01-02	1009	45.0	46.5	1.5	<5	<0.2	<2	41	4	36	<2	62
BG01-02	1010	46.5	47.5	1.0	<5	0.2	<2	235	2	24	2	38
BG01-02	1011	47.5	48.5	1.0	<5	0.2	2	311	4	47	<2	54
BG01-02	1012	48.5	50.0	1.5	<5	0.4	2	243	4	25	<2	40
BG01-02	1013	54.2	55.1	0.9	<5	<0.2	<2	37	1	820	<2	26
BG01-02	1014	68.0	69.3	1.3	<5	<0.2	2	128	1	17	2	30
BG01-02	1015	69.3	70.4	1.1	5	1.6	<2	296	3	132	766	2170
BG01-02	1016	70.4	71.3	0.9	10	3.0	16	683	8	50	3980	8710
BG01-02	1017	71.3	72.2	0.9	<5	8.6	<2	50	30	28	738	312
BG01-02	1018	72.2	73.5	1.3	<5	<0.2	<2	29	3	27	82	388
BG01-02	1019	73.5	75.0	1.5	<5	<0.2	2	27	3	27	8	98
BG01-02	1020	82.4	83.4	1.0	<5	<0.2	<2	19	3	25	2	96
BG01-02	1021	83.4	84.5	1.1	<5	<0.2	2	21	3	19	8	92
BG01-02	1022	84.5	85.8	1.3	<5	<0.2	<2	16	3	20	4	78
BG01-02	1023	85.8	86.5	0.7	<5	0.4	<2	48	6	26	8	58
BG01-02	1024	86.5	87.9	1.4	<5	0.2	<2	24	4	21	6	56
BG01-02	1025	87.9	88.4	0.5	<5	<0.2	<2	5	<1	7	6	76

BG-AIICP.xls

HOLE NUMBER	SAMPLE NUMBER	From (m)	To (m)	Interval (m)	Au ppb	Ag ppm	As ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
BG01-02	1026	88.4	89.5	1.1	<5	0.4	2	25	4	21	6	66
BG01-02	1027	89.5	90.5	1.0	<5	<0.2	<2	5	1	5	2	68
BG01-02	1028	99.3	100.3	1.0	<5	<0.2	<2	50	<1	10	10	70
BG01-02	1029	100.3	100.9	0.6	<5	<0.2	<2	45	3	23	16	54
BG01-02	1030	100.9	101.7	0.8	<5	<0.2	<2	20	<1	8	8	48
BG01-02	1031	107.5	108.5	1.0	<5	<0.2	<2	15	<1	7	14	234
BG01-02	1032	108.5	109.6	1.1	<5	<0.2	<2	25	1	16	20	120
BG01-02	1033	109.6	110.5	0.9	<5	<0.2	<2	16	<1	8	8	66
BG01-02	1034	110.5	112.0	1.5	<5	<0.2	<2	39	2	20	16	78
BG01-02	1035	112.0	113.0	1.0	<5	<0.2	<2	28	3	19	12	62
BG01-02	1036	113.0	114.0	1.0	<5	<0.2	<2	42	5	20	12	82
BG01-02	1037	114.0	115.0	1.0	<5	1.0	2	42	5	17	54	310
BG01-02	1038	115.0	116.1	1.1	<5	<0.2	<2	38	3	16	18	36
BG01-02	1039	116.1	117.1	1.0	<5	0.2	<2	24	5	11	16	34
BG01-02	1040	117.1	118.0	0.9	<5	<0.2	<2	39	2	13	12	26
BG01-02	1041	118.0	119.0	1.0	<5	<0.2	<2	9	3	6	6	8
BG01-02	1042	119.0	121.0	2.0	<5	<0.2	<2	8	1	19	12	50
BG01-02	1043	121.0	122.4	1.4	<5	<0.2	<2	21	45	25	12	70
BG01-02	1044	122.4	123.6	1.2	<5	<0.2	<2	25	7	18	10	42
BG01-02	1045	123.6	124.6	1.0	<5	<0.2	<2	35	5	27	18	36
BG01-02	1046	124.6	125.6	1.0	<5	0.2	<2	26	8	13	8	6
BG01-02	1047	125.6	127.0	1.4	<5	<0.2	<2	27	<1	22	8	34
BG01-02	1048	127.0	128.5	1.5	<5	<0.2	<2	23	<1	18	2	28
BG01-03	1088	13.8	14.5	0.7	<5	<0.2	<2	57	<1	34	8	52
BG01-03	1089	14.5	15.1	0.6	<5	<0.2	<2	81	1	27	12	48
BG01-03	1090	15.1	16.4	1.3	<5	<0.2	<2	90	1	28	8	50
BG01-03	1091	59.0	60.4	1.4	<5	<0.2	<2	34	<1	34	10	52
BG01-03	1092	60.4	61.2	0.8	<5	1.0	<2	107	<1	38	1130	5510
BG01-03	1093	61.2	62.3	1.1	<5	1.2	2	113	1	320	1400	4220
BG01-03	1094	62.3	63.4	1.1	<5	1.2	<2	522	<1	659	298	4320
BG01-03	1095	63.4	64.5	1.1	<5	2.4	<2	490	<1	627	1480	5090
BG01-03	1096	64.5	65.7	1.2	<5	1.2	<2	149	<1	188	182	1315

BG-AllICP.xls

HOLE NUMBER	SAMPLE NUMBER	From (m)	To (m)	Interval (m)	Au ppb	Ag ppm	As ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
BG01-03	1097	65.7	66.8	1.1	<5	0.2	<2	83	<1	118	122	1175
BG01-03	1098	66.8	67.3	0.5	<5	<0.2	<2	11	<1	18	36	140
BG01-03	1099	67.3	68.0	0.7	<5	0.8	<2	46	1	103	116	628
BG01-03	1101	68.0	69.8	1.8	<5	1.6	6	96	<1	56	16	132
BG01-03	1102	69.8	71.0	1.2	<5	0.6	2	28	3	18	18	42
BG01-03	1103	71.0	72.4	1.4	<5	<0.2	<2	19	<1	749	18	68
BG01-03	1104	83.5	84.5	1.0	<5	<0.2	<2	14	1	9	2	62
BG01-03	1105	84.5	85.4	0.9	<5	<0.2	4	25	<1	27	<2	70
BG01-03	1106	85.4	85.9	0.5	<5	0.2	<2	70	2	486	2	52
BG01-03	1107	85.9	86.3	0.4	<5	<0.2	<2	33	5	33	2	78
BG01-03	1108	86.3	87.5	1.2	<5	0.2	<2	35	3	51	2	72
BG01-03	1109	87.5	88.2	0.7	<5	2.6	4	159	1	51	12	16
BG01-03	1110	88.2	89.2	1.0	<5	1.2	<2	85	<1	34	2	36
BG01-03	1111	89.2	90.2	1.0	<5	1.4	<2	84	1	36	6	36
BG01-03	1112	90.2	91.2	1.0	<5	1.2	<2	65	<1	36	2	24
BG01-03	1113	91.2	92.2	1.0	<5	1.0	6	63	<1	30	2	18
BG01-03	1114	92.2	93.3	1.1	<5	0.8	<2	47	<1	22	4	10
BG01-03	1115	93.3	93.6	0.3	<5	0.2	<2	13	3	10	<2	<2
BG01-03	1116	93.6	95.3	1.7	<5	<0.2	<2	1	3	6	2	36
BG01-03	1117	95.3	95.7	0.4	<5	0.2	<2	12	3	14	2	<2
BG01-03	1118	95.7	96.8	1.1	<5	<0.2	<2	<1	14	5	2	38
BG01-03	1119	96.8	98.0	1.2	<5	<0.2	<2	25	1	17	<2	14
BG01-03	1120	98.0	99.2	1.2	<5	0.2	<2	21	4	15	<2	12
BG01-03	1121	99.2	100.4	1.2	<5	<0.2	<2	7	3	9	<2	20
BG01-03	1122	100.4	101.7	1.3	<5	<0.2	<2	35	4	13	6	30
BG01-03	1123	101.7	103.2	1.5	<5	<0.2	<2	26	<1	9	2	46
BG01-03	1124	103.2	104.4	1.2	<5	<0.2	<2	64	1	16	4	52
BG01-03	1125	104.4	105.8	1.4	<5	<0.2	<2	16	1	10	<2	42
BG01-04	1128	117.7	119.2	1.5	<5	<0.2	<2	117	6	64	8	742
BG01-04	1129	119.2	120.2	1.0	<5	<0.2	<2	72	4	17	4	94
BG01-04	1130	120.2	121.2	1.0	5	0.4	<2	691	1	105	8	392
BG01-04	1131	121.2	122.7	1.5	20	<0.2	<2	39	8	59	8	48

BG-AllICP xls

HOLE NUMBER	SAMPLE NUMBER	From (m)	To (m)	Interval (m)	Au ppb	Ag ppm	As ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
BG01-04	1132	122.7	124.3	1.6	20	<0.2	<2	71	6	79	6	64
BG01-04	1133	124.3	125.3	1.0	5	0.2	<2	317	2	139	16	478
BG01-04	1134	125.3	126.7	1.4	<5	<0.2	<2	243	<1	176	4	64
BG01-04	1135	126.7	128.2	1.5	<5	<0.2	<2	129	1	91	2	44
BG01-04	1136	128.2	129.7	1.5	<5	<0.2	<2	74	10	77	2	58
BG01-04	1137	129.7	131.2	1.5	<5	<0.2	<2	154	4	116	6	28
BG01-04	1138	131.2	132.5	1.3	<5	<0.2	<2	56	<1	32	6	48

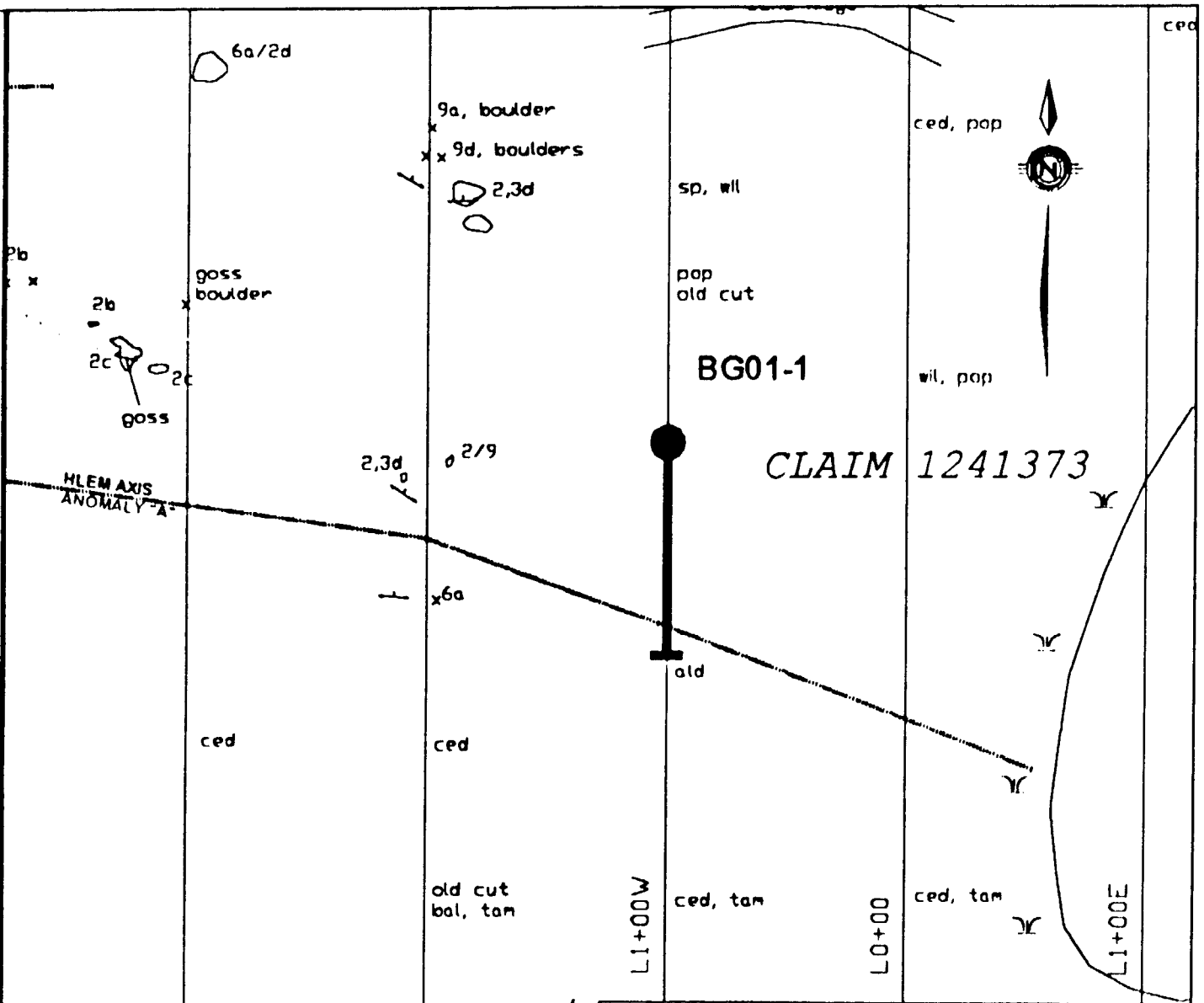
Figures 3 to 10.
Drill Hole Plan Maps and Cross-Sections
Winter 2001 Drilling Program - Byng Project

ced

- 10 Diabase
- 9 Granite
 - 9a Feldspar porphyry
 - 9b Amphibole (phyric) granodiorite
 - 9c Amphibole contact zone
 - 9d Pegmatite
- 8 Pyroxenite
- 7 mafic to intermediate intrusive
 - 7a Gabbro
 - 7b Diorite
- 6 Quaternary Sediments
 - 6a Tuffaceous sediments
 - 6b Fine grained, arenaceous
- 5 Chemical Sediments
 - 5a Magnetite Iron Formation
 - 5b Chert
 - 5c Sulfide bands
- 4 Felsic Volcanics
- 3 Intermediate Volcanics
 - 3a Massive flows
 - 3b Pillow breccia
 - 3c Tuff/Angill-tuff
- 2 mafic Volcanics
 - 2a Massive flows
 - 2b Pillow flows
 - 2c Pillow breccia
 - 2d Tuff/Angill
- 1 Ultramafic Volcanics

- Alteration and Mineralization**
- epid epidote
 - goss gossan
 - sil silification
 - QV Quartz Vein
 - py pyrite
 - pr pyrrhotite
 - Foliation, with dip
 - Foliation, dip not measured
 - Bedding, with dip
 - Phase orientation
 - Outcrop
 - Sample location
 - _____ Road
 - _____ Logging trails

- Vegetation**
- bal Balsam
 - ced Cedar
 - sp Spruce
 - tan Tamarack
 - pop Poplar
 - ald Alder



BYNG PROPERTIES INC	BYNG PROJECT DDH BG01-1 PLAN MAP L1+00W/4+00N	
	Compiled: R.BARBER, J.SAMSON	Draw. No.: B201-1PLAN
	Drafted: R.BARBER, J.SAMSON	Date: 01/02/14
	Scale: 1:2500	Geo. Ref.: NTS Ref.: 439/W

FIGURE J

2d/6a

- 8 Diabase
- 9 Granite
 - 9a Feldspar monzonite
 - 9b Amphibole-biotite granodiorite
 - 9c Amphibole-biotite quartz monzonite
 - 9d Pegmatite
- 6 Pyroxenite
- 7 mafic to intermediate intrusives
 - 7a Gabbro
 - 7b Diorite
- 6 Quaternary Sediments
 - 6a Tuffaceous sediments
 - 6b Fine grained, unstratified
- 5 Quaternary Sediments
 - 5a Magnetite Iron Formation
 - 5b Clay
 - 5c Siltstone
- 4 Tephritic Volcanics
- 3 Intermediate Volcanics
 - 3a Basaltic flow
 - 3b Tuff/Lapilli-tuff
- 2 mafic Volcanics
 - 2a Basaltic flow
 - 2b Basaltic flow
 - 2c Flow breccia
 - 2d Tuff/taconite
- 1 Ultramafic Volcanics

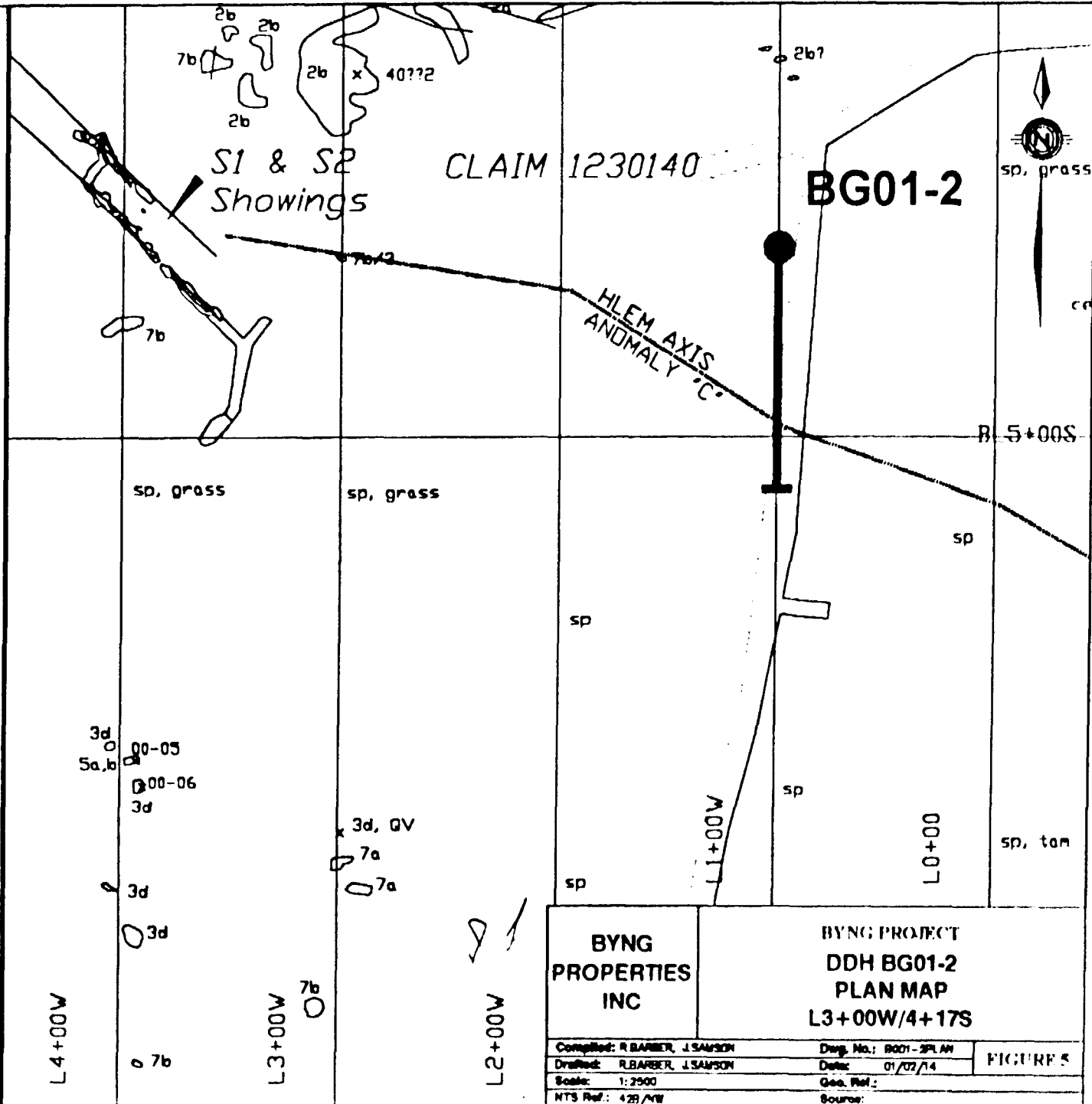
Alteration and Mineralization

- epid epidote
- gss green
- alk alkalicization
- GV Quartz Vein
- py pyrite
- pr pyrrhotite
- Foliation, with dip
- Foliation, dip not measured
- Breeding, with dip
- Flow orientation

- O Outcrop
- Sample location
- Road
- Logging trail

- Vegetation
- bal Balsam
 - ced Cedar
 - sp Spruce
 - tan Tamarack
 - pop Poplar
 - ald Alder

Scale 1:2500



BYNG PROPERTIES INC	BYNG PROJECT DDH BG01-2 PLAN MAP L3+00W/4+17S
Compiled: R BARBER, J SAMSON	Drawn: R BARBER, J SAMSON
Drafted: R BARBER, J SAMSON	Date: 01/02/14
Scale: 1:2500	Geo. Ref.: NTS Ref.: 428/NW
	FIGURE 5

550S

500S

450S

400S

350S

Claim 1230140

HLEM AXIS
ANOMALY γC^m

BG01-2

(Az. 180 @ -45)

0 m

-50 m

-100 m

Pyrrhotite-pyrite
0.5% to 1% locally
Tr Sph-Cpy
(2621 ppm Zn, 1237 ppm Pb
over 4.2 m)

Pyrrhotite-pyrite
0.5% to 2% locally
Tr - 0.1% sphalerite

Ech = 149.88 m

Poliation angle

0 25 m

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BYNG PROJECT
DDH BG01-2
DRILL SECTION - LOOKING WEST
L3+00W/4+17S

Compiled: J.SANSON

Draw. No.: BG01-SECTION

FIGURE 6

Drafted: J.SANSON

Date: 01/03/20

Scale: 1:1000

Geo. Ref.:

NTS Ref.: 428/4W

Source:

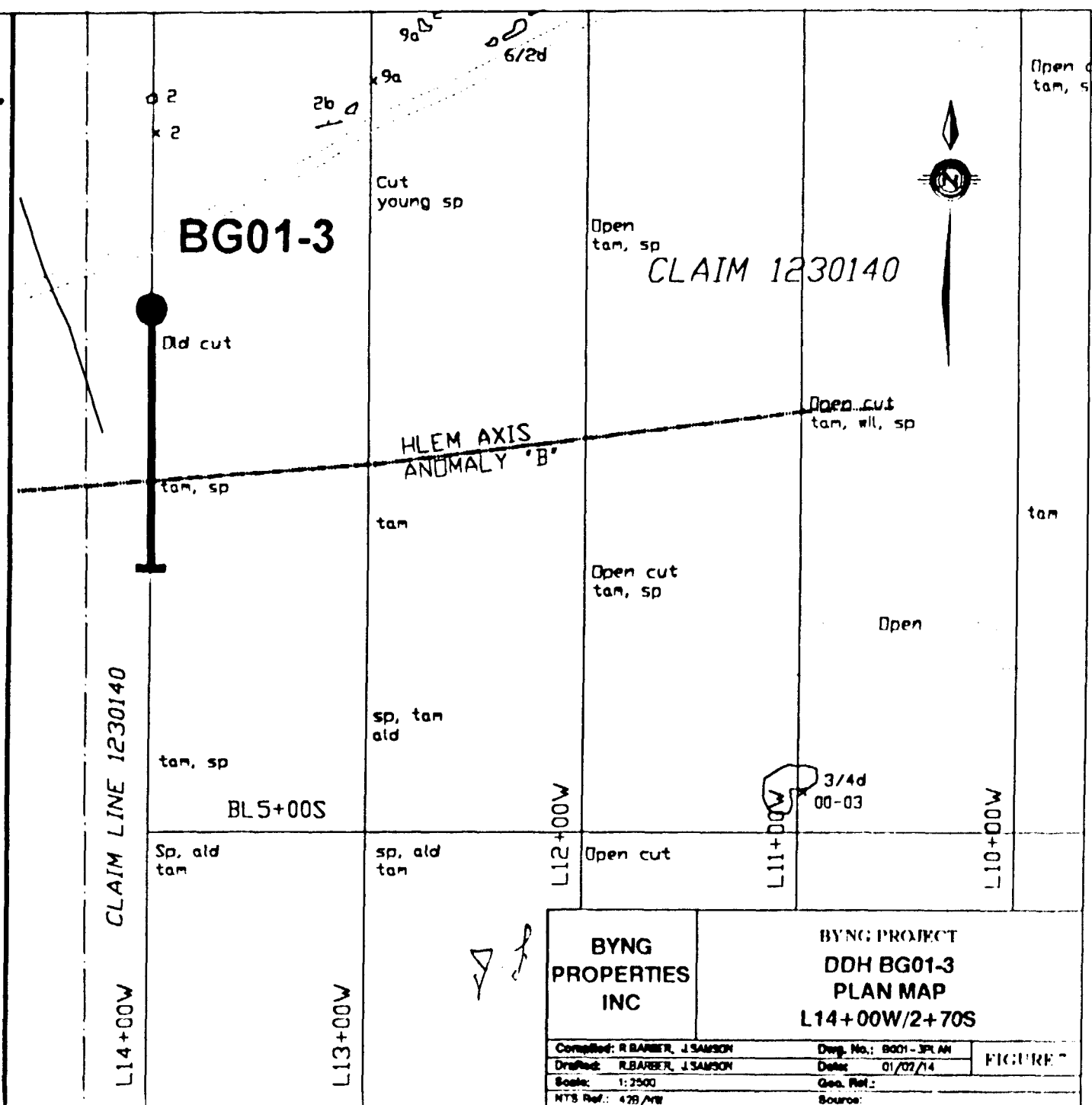
- 10 Basalt
- 9 Granite
 - 9a Felspar porphyry
 - 9b Amphibole-phyric granodiorite
 - 9c Amphibole contact zone
 - 9d Pegmatite
- 8 Pyroxenite
- 7 Rhyolite to Intermediate Intrusive
 - 7a Gabbro
 - 7b Diorite
- 6 Clastic Sediments
 - 6a Tuffaceous sediments
 - 6b Fine grained, asphaltitic
- 5 Chemical Sediments
 - 5a Magnetite Iron Formation
 - 5b Chert
 - 5c Sulfide bands
- 4 Felsic Volcanics
- 3 Intermediate Volcanics
 - 3a Massive flows
 - 3b Tuff/Angillu-tuff
- 2 Rhyolite Volcanics
 - 2a Massive flows
 - 2b Piloted flows
 - 2c Pilose breccia
 - 2d Tuff/Angillu
- 1 Ultrabasic Volcanics

Alteration and Mineralization

- epk epikrite
- gan garnet
- sk silicification
- sv Sulfate vein
- py pyrite
- sp synchinite
- Foliation, with dip
- Foliation, dip not measured
- Breeding, with dip
- Flow orientation
- Outcrop
- Sample location
- Road
- Logging trails

Vegetation

- bl Balsam
- cod Cedar
- sp Spruce
- tan Tamarack
- pop Poplar
- ald Alder



BYNG PROPERTIES INC	BYNG PROJECT DDH BG01-3 PLAN MAP L14+00W/2+70S
Compiled: R BARBER, J SAMSON	Draw. No.: 8001-3PLAN
Drafted: R BARBER, J SAMSON	Date: 01/07/14
Scale: 1:2500	Geo. Ref.:
NTS Ref.: 478/AV	Source:

FIGURE

250S

350S

300S

250S

200S

Claim 1230140

HLEM AXIS
ANOMALY "B"

BG01-3

(Az. 180 @ -45)

0 m

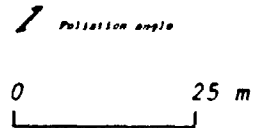
-50 m

-100 m

Galena-Sph-Cpy-Py-Po
Trace to 0.5% locally
(3479 ppm Zn, 742 ppm Pb
over 6.4 m)

Pyrrhotite-pyrite
1-10, 2-10% locally
Tr Sph-Cpy

Coh = 1618 m



BYNG
PROPERTIES
INC

BYNG PROJECT
DDH BG01-3
DRILL SECTION - LOOKING WEST
L14+00W/2+70S

Compiled: J. SAMSON

Dwg. No.: BG01-3SECTION

FIGURE 8

Drafted: J. SAMSON

Date: 01/02/90

Scale: 1:1000

Geo. Ref.:

NTS Ref.: 428/NW

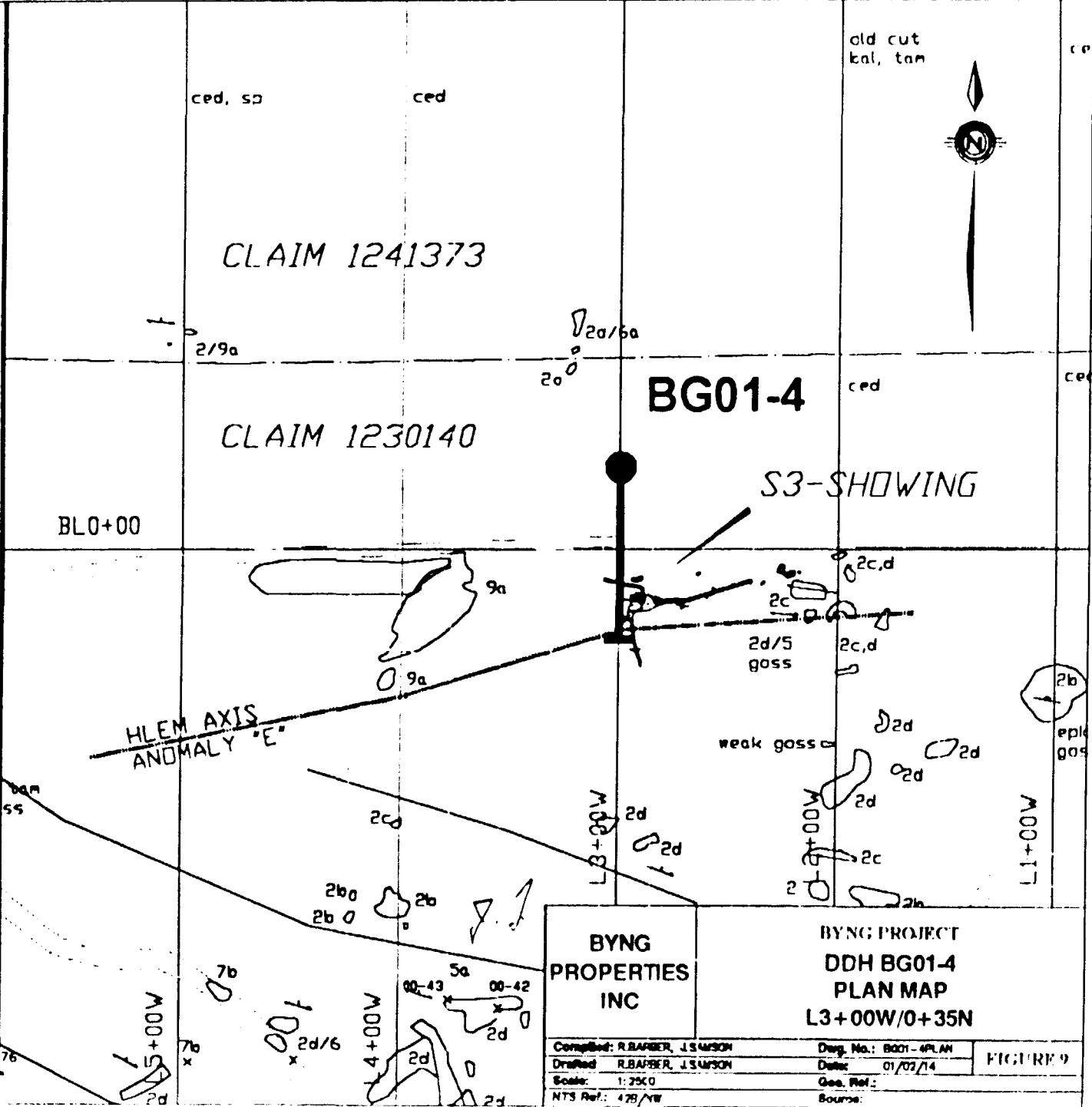
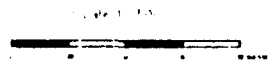
Source:

- 10 Diabase
- 9 Granite
 - 9a Feldspar porphyry
 - 9b Amphibole-phryk granodiorite
 - 9c Amphibolite contact zone
 - 9d Pegmatite
- 8 Pyroxenite
- 7 mafic to intermediate intrusive
 - 7a Gabbro
 - 7b Diorite
- 6 Clastic Sediments
 - 6a Tuffaceous sediments
 - 6b Fine grained sandstone
- 5 Chemical Sediments
 - 5a Magnetite Iron Formation
 - 5b Chert
 - 5c Sulfide bands
- 4 Felsic Volcanics
- 3 Intermediate Volcanics
 - 3a Basalt flows
 - 3d Tuff/Lapilli-tuff
- 2 mafic Volcanics
 - 2a Basalt flows
 - 2b Pillow flows
 - 2c Pillow breccia
 - 2d Tuff/andesite
- 1 Ultramafic Volcanics

Abbreviation and Interpretation

- epid epidote
- goss gossan
- sil silification
- QV Quartz vein
- py pyrite
- pr pyrrhotite
- Foliation, with dip
- Foliation, dip not measured
- Breeding, with dip
- Pillar orientation
- Outcrop
- Sample location
- Road
- Logging trail

- Vegetation**
- bel Betula
 - ced Cedar
 - sp Spruce
 - tan Tanarack
 - pop Poplar
 - ald Alder



**BYNG
PROPERTIES
INC**

**BYNG PROJECT
DDH BG01-4
PLAN MAP
L3+00W/0+35N**

Compiled: R.BARBER, J.SAMSON
 Drafted: R.BARBER, J.SAMSON
 Scale: 1:2500
 NTS Ref.: 479/XW

Dep. No.: B001-4PLAN
 Date: 01/07/14
 Geo. Ref.:
 Source:

FIGURE 9

Claim 1230140

0+50S

BL 0

0+50N

1+00N

HLEM AXIS
ANOMALY "E"
& S3-SHOWING

BG01-4

(BG01-480 @ -60)

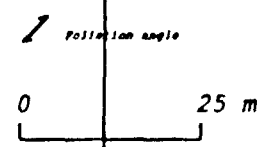
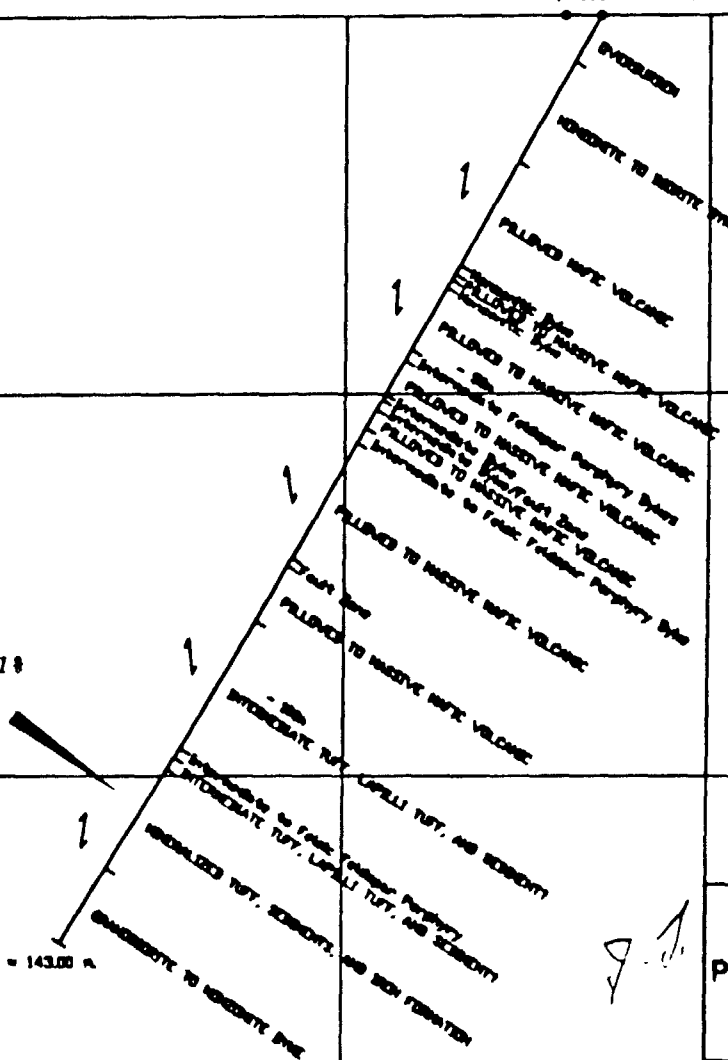
0 m

-50 m

-100 m

Pyrrhotite-pyrite 18
8-10% locally
(up to 691 ppm Cu
and 742 ppm Zn)

Ech = 143.00 m



BYNG
PROPERTIES
INC

BYNG PROJECT
DDH BG01-4
DRILL SECTION - LOOKING WEST
L3+00W/0+35N

Compiled: J.SAMSON

Draw. No.: BG01-4SECTION

FIGURE 10

Drafted: J.SAMSON

Date: 01/02/20

Scale: 1:1000

Geo. Ref.:

NTS Ref.: 428/WW

Source:

4.0 DISCUSSION AND RECOMMENDATIONS

The objective of the winter 2001 diamond drilling program (572 m in 4 holes) was to test the potential for economic base metal mineralization in association with several HLEM conductors located across the Byng property. The drilling intersected predominantly massive to pillowed mafic flows, intercalated with mafic to intermediate tuffs and tuffaceous sediments, including chert to cherty "felsic" tuffs, and minor fine clastic sediments. The rocks are weak to moderately deformed, amphibolized, and generally display weak alteration to biotite, chlorite, and epidote. They are cross-cut by several late brittle fault zones, and are commonly intruded by a variety of intermediate to felsic dykes, mainly granodiorite to diorite, and feldspar porphyry.

All targeted HLEM anomalies intersected by the drilling were found to correlate with multiple-facies iron formations, ranging from oxide facies, to garnetiferous silicate facies, to sulphide facies iron formations. They are poorly laminated to weakly banded, may vary from less than 1 m to 10's of metres in apparent width, and geophysics (magnetics and HLEM) indicate that certain horizons extend for hundreds of metres, possibly across the entire property. The formations generally consist of sugary-textured chert and fine tuffaceous sediments, mostly garnetiferous, with magnetite disseminations and bands. These "lean" iron formations are commonly sulphidized by variable amounts of pyrrhotite and pyrite, which occur as fine disseminations, to stringers and seams, to semi-massive bands up to 50 cm in width (i.e. BG01-3). Light yellow sphalerite occurs locally, up to perhaps 0.2% in places, and traces of chalcopyrite and galena have been noted. The base metal anomalies are generally weak, discontinuous, and narrow. **The most significant assay results include 2621 ppm Zn and 1237 ppm Pb over 4.2 m in drill hole BG01-2, and a weighted average of 3479 ppm Zn, 742 ppm Pb, and 336 ppm Ni over 6.4 m in drill hole BG01-3.**

The results from the recent drill program suggest that the present claim group offers limited potential for economic mineralization. However, intermediate to relatively "felsic" rocks, and a quartz stockwork containing remobilized base metals were intersected by drill hole BG01-3, near the west boundary of the property. Similar rocks, deemed relatively more favourable for VMS-style mineralization, were also observed in the vicinity by Barber (2000). Sulphide mineralization, albeit not always enriched in base metals, becomes more important to the west, as confirmed by drilling and reflected by increasingly strong HLEM signatures nearing the property boundary. In light of these observations, it is recommended that a compilation of all available property and regional geoscientific data be prepared, in order to properly re-assess the validity of the present claim group configuration. The geological and structural re-interpretation may help to vector-in on a more favourable environment and to define specific targets.

5.0 REFERENCES

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1963: Map 2223G, "Goat River" Aeromagnetic Series, published by the Geological Survey of Canada.
- Grant, J.C.
2000: Geophysical Report for Byng Properties Inc. on the Byng Property, Byng Township, Unpublished Report
- Thurston, P.C. et al.
1975: Map 2221, Chapleau-Foleyet, Geological Compilation Series, ODM. Scale 1:253 440 or 1 inch to 4 miles.

CERTIFICATE OF QUALIFICATIONS

I, Jacques Samson of 806 Denise Street, Timmins, Ontario, do hereby certify that:

- 1) I hold a Bachelor of Science (Honours) Degree in Geology (1986) from the University of Ottawa, Ottawa, Ontario.
- 1) I have been practising my profession in Ontario and Quebec since 1986.
- 2) I have worked for Newmont Exploration of Canada Ltd., Homestake Canada Inc., Major General Resources Ltd., and Cameco Gold Inc.
- 3) The information contained in this report and accompanying maps is based on my personal observations and direct supervision of the field work, published data, and assessment data contained in the files of the Resident Geologist's Office, Timmins, Ontario.
- 4) I do not have directly or indirectly, nor do I expect to receive, any interest in the subject property.

Dated this 21st day of May 2001, at Timmins, Ontario



Jacques Samson, B.Sc.H. (Geology),
Geologist

APPENDIX 1
Diamond drill logs
(BG01-1 to BG01-4)

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
 HOLE No.: BG01-1
 Collar Eastings: -100.00
 Collar Northings: 400.00
 Collar Elevation: 0.00

Date: 21/Jan/01-22/Jan/01
 Logged by: J. Samson
 Collar Inclination: -45.00
 Grid Bearing: 180.00
 Final Depth: 119.00 metres

FROM TO LITHOLOGICAL DESCRIPTION

0.0 7.0 (OVERBURDEN)

7.0 18.2 (MASSIVE MAFIC FLOW)

Medium greenish-grey, generally fine-grained but with discernible amphiboles up to 1mm discernible throughout (amphibolitized). Fine brownish leucoxene, disseminated and locally forming subtle brownish bands, possibly including very fine biotite. Weak and poorly developed "felsic" banding (metamorphic segregation) is locally developed, defined by predominantly feldspathic material. Massive flow, moderately foliated at about 52 deg. tca. Quartz-epidote+/-calcite veinlets and bands, up to 6cm wide, disrupted, locally weakly folded and dislocated, about 8-10%. Weakly blocky core. Fairly hard, possibly weakly silicified. Fine pyrite disseminations and wisps, <0.1% overall.

13.7 -14.3m: Intermediate to Felsic Feldspar Porphyry Dyke
 Upper contact defined by a 5-6 cm-wide quartz-hematite veinlet with 3 specks of molybdenum, up to 1.5mm. Lower contact sharp at 35 deg. tca. Medium-grey, with 15-20% white feldspar phenocrysts (0.5 to 2mm, subhedral), contained within a fine groundmass of feldspar, quartz, and 10% mafics. Very weakly foliated. Contains 0.1% dusty pyrite/pyrrhotite.

18.2 25.5 (MAFIC DYKE/MASSIVE FLOW)

Upper contact arbitrarily selected, marked by relatively abrupt change in texture, moderately sheared at about 40 deg. tca. Lower contact seemingly correlating with a fracture zone. Medium-green, fine to medium-grained, weakly gabbroic, amphibolitized. Unit may represent a massive flow or synvolcanic mafic intrusion. Very similar to overlying unit, but much more homogenous and coarser, less deformed although still weak to moderately foliated, at about 62 deg. tca. Notably, only a trace of quartz-calcite stringers are observed. Weakly magnetic, weakly chloritic.

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-1

Page 2

FROM TO LITHOLOGICAL DESCRIPTION

with epidote only observed along fracture planes. Peculiar brownish-grey leucoxene and/or biotite/muscovite(?) wisps are locally forming stringer-like features and bands. Trace of disseminated dusty pyrrhotite.

19.9 - 20.2m: Includes two feldspar porphyry xenoliths similar in composition to the porphyry dykelet previously described above.

20.5 22.1 (Diorite to Feldspar-Porphyry Dyke)
Upper contact fractured, lower contact sharp at 67 deg. tca. Medium-grey, fine to medium-grained (up to 1mm), massive, and very weakly to non-foliated. Dioritic in composition, locally weakly feldspar porphyritic. Dusty pyrite disseminations, 1% locally, in association with weakly hematized bands, <0.1% overall.

24.4 - 25.5m: Moderately sheared at 45 deg. tca, moderately fractured contact zone, with a 10cm inclusion of mafic volcanic (strongly sheared).

25.5 65.4 (PILLOWED TO BRECCIATED MAFIC VOLCANIC)

Medium to dark green, pillowed to brecciated mafic volcanic. Fine-grained, with light green pseudo-banding defined by subrounded patches indicating the presence of remnant pillow rims and flow breccia fragments. The fragments are light green due to preferential saussuritization, mainly fine epidote, sericite, and carbonate (not calcite). The fragments are partly flattened/stretched, parallel to the moderate foliation at 38 to 45 deg. tca. Weakly folded locally. Minor feldspathic bands. Overall, weakly chloritic, with brownish micaceous stringers and bands (biotite/muscovite?) weakly developed locally. Minor fine garnets only noted locally, near the bottom of the interval. Non-magnetic. Quartz-calcite stringers and veinlets very minor, parallel to the foliation, perhaps 1%. Trace of disseminated to wispy pyrite.

35.2 37.2 (Fault Zone)
Strongly fractured core, locally ground. About 90% core recovery. Minor iron-oxide along fracture planes, weakly vuggy in places.

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-1

Page 3

FROM TO LITHOLOGICAL DESCRIPTION

43.3 - 44.2

46.4 - 46.6

48.1 - 48.6m: Intermediate to Felsic Feldspar Porphyry
Contacts sharp at 45 to 70 deg. tca. Medium-grey,
homogenous dykelets, very weakly foliated, identical to
the porphyry previously observed uphole at 13.7 to 14.3m.

51.3 - 51.8m: Felsic Dyke/Vein

Upper contact sharp at 60 deg., lower contact sharp at 25
deg. tca. White to grey felsic dykelet or vein, comprised
of quartz and feldspar, and possibly white epidote. Contains
1-2% pinkish garnets (subhedral to euhedral, up to 4mm),
0.5% fine disseminated to stringer pyrite, and trace
pyrrhotite, and molybdenite. Minor green epidote/chlorite
also infilling the microfractures. Very weakly foliated.

51.8 - 61.2m: As previously described, but "patchy" felsic
banding more common, up to 30cm wide, comprised of
strong epidotization, and locally weak but pervasive
hematization, accompanied by minor calcite. Foliation
moderate at 51 deg. tca. Diffuse brownish biotite banding
and stringers commonly developed.

60.0 - 61.2m: Includes patchy quartz-calcite-hematite bands,
accompanied by fine disseminated to blebby pyrrhotite,
perhaps 0.5% overall. Minor fine garnets also noted
(i.e. 60.6m).

61.2 62.2 (Chert-Sulphide Iron-Formation)

Upper contact transitional over a 10cm interval, fractured.
Medium-grey to brownish-grey, very fine-grained, very hard
and siliceous, with very faint laminations probably partially
obliterated by the moderate foliation at 53 deg. tca. Most
likely recrystallized chert. Brownish tinge may in part be
related to the presence of very fine biotite. Weak to
moderately magnetic, accompanied by 1-2% dusty
disseminations and wisps of pyrrhotite and minor pyrite,
distributed parallel to the foliation. Less than 1% hairthin
quartz stringers.

62.2 63.1 (Intermediate Dyke)

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-1

Page 4

FROM	TO	LITHOLOGICAL DESCRIPTION
		Upper contact sharp at 52 deg., lower contact sharp at 39 deg. tca. Fine-grained, medium-grey, quite hard and siliceous, with perhaps 10-15% fine biotite(?) wisps defining a weak to moderate foliation at 40 deg. tca. Overall homogenous, with <1% hairthin greyish-white stringers. Pyrite trace as dusty disseminations.
		63.0 - 63.1m: About 2% dusty to wispy pyrite and pyrrhotite near the margin to the underlying dyke. Possible trace of sphalerite.
		63.1 - 65.4 (Intermediate to Felsic Feldspar Porphyry) Upper contact sharp at 39 deg. lower contact at 56 deg. tca. Medium grey, with 5 to 25% white anhedral feldspar phenocrysts (0.5 to 2mm), contained within a fine groundmass of quartz, feldspar, and mafic minerals (biotite and amphiboles). Very weakly foliated. A 5cm wide mafic wallrock sliver is present near 65.2m.
		63.1 - 64.0m: Includes a 50 cm wide intervals cross-cut by 80% white felsic dykelets/veins of quartz-feldspar, with 1-2% pinkish garnets and minor muscovite, and trace pyrite-pyrrhotite. The veins or dykelets are irregular, and contain abundant wallrock xenoliths.
65.4	71.0	(MASSIVE MAFIC FLOW) Medium to dark greyish-green, fine-grained massive mafic flow. Weakly chloritic, with fine leucoxene disseminated throughout. Brownish to bronze coloured biotite bands are also weakly developed. Amphibolitized, with no garnets noted. Foliation weak to moderate at 48 to 55 deg. tca. Minor "felsic" banding locally developed. White quartz-feldspar-muscovite veins and veinlets, up to 25cm wide, minor, weakly folded in places. Fine disseminated to wispy pyrite and pyrrhotite, 0.1%.
		67.1 - 67.3m: Quartz-feldspar-muscovite vein, contains trace molybdenite and pyrite. Minor garnets also noted.
71.0	71.5	(MINERALIZED CHERTY MAFIC TUFF/IRON-FORMATION)

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-1

Page 5

FROM	TO	LITHOLOGICAL DESCRIPTION
71.5	78.5	<p>Upper and lower contacts defined by abrupt compositional change into a moderate to very hard horizon, fine-grained, pseudolaminated as defined by diffuse grey, dark grey, and greyish-green intervals. Contains 1% pinkish garnets. Moderately foliated at 45 to 52 deg. tca. Contains 2-3% pyrrhotite and 0.1% pyrite, disseminated to wisps and semi-massive stringer bands. Possibly contains sphalerite (smell of rotten eggs when sprayed with HCl acid).</p>
71.5	78.5	<p>(GARNETIFEROUS MASSIVE TO BRECCIATED MAFIC FLOW)</p> <p>Medium greenish-grey to greyish-green, generally fine-grained, with patchy light green pseudo-fragments scattered throughout, possibly as a result of preferentially altered fragments from a brecciated mafic flow. The patches are very irregular, but with rounded edges, light green and saussuritized (mainly fine epidote), preferentially garnetiferous, lapilli-size, 10-15%. Quartz-feldspar veinlets and stringers, up to 2cm wide, also display similar alteration along their margins. Overall, contains up to 10% garnets, very fine leucoxene, with minor brownish to bronze biotite stringers and laminations. Weak to moderately foliated, to pseudolaminated in places, at 55 to 75 deg. tca. Pyrrhotite and much lesser pyrite, as fine disseminations and wisps, 0.1% overall.</p> <p>71.5 - 74.5m: Quartz-feldspar veinlets and stringers, often pinkish due to the presence of selective hematization of the feldspars, irregular but mostly parallel to the main foliation, 10%.</p>
78.5	81.0	<p>(WEAKLY MINERALIZED MAFIC VOLCANIC)</p> <p>Medium to dark greenish-grey, fine-grained, with upper contact arbitrarily selected due to gradual fading-out of garnets (between 78.5 - to 78.7m), the presence of pseudolaminations (poorly defined by various shades of grey), and a marked increase in sulphides. The sulphides consist mainly pyrrhotite and trace pyrite, as fine disseminations, stringers and semi-massive stringer-bands up to 1cm wide, mainly subparallel to the pseudo-</p>

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-1

Page 6

FROM	TO	LITHOLOGICAL DESCRIPTION
		<p>laminations, at 58 to 72 deg. tca. Overall, 2% sulphides, decreasing to 0.5% between 79.8 to 81.0m. The host rock appears to be a massive mafic flow, probably pseudo-laminated due to deformation and mineral segregation, amphibolitized, with weak biotite and lesser magnetite banding. May include a minor tuffaceous to sedimentary component. Trace of quartz stringers.</p>
81.0	85.8	<p>(MASSIVE MAFIC VOLCANIC FLOW)</p> <p>Dark greenish-grey, fine-grained, transitional from previous unit. Fairly homogenous, weak to moderate foliation mainly defined by diffuse brownish biotite stringers and bands, at about 63 deg. tca. Essentially non-garnetiferous. Very fine wispy pyrrhotite seams, parallel to the foliation, 0.1-0.2%. Two white quartz-feldspar-muscovite dykelets/veins, 10 to 15cm wide, as previously described, are also present. Hairthin quartz stringers, at various angles, <0.5%. Biotite within the groundmass of the mafic volcanic is gradually increasing in a downhole direction, giving the rock a brown tinge between 85.4 to 85.8m.</p>
85.8	93.2	<p>(SULPHIDIC GARNETIFEROUS MAFIC ROCK/IRON-FORMATION)</p> <p>Fine-grained, medium dark grey and weakly biotitic, grading to dark green in a downhole direction, becoming weakly chloritic and strongly garnetiferous (up to 20% and 5mm) from 89.0 to 93.2m. Protolith may be a mafic tuff, but no true laminations or beds are recognized; Most likely derived from an amphibolitized and deformed mafic flow. Weak to moderately silicified locally. Moderate foliation at 50 to 65 deg. tca, weakly folded or contorted. Less than 0.5% greyish quartz stringers. Pyrrhotite and lesser pyrite (ratio 90:10), varies from 0.5% to 20% locally, occurs as fine disseminations, stringers, and semi-massive bands up to 15cm wide. Subangular host rock fragments, lapilli-size, are common within the sulphidized bands, sheared.</p> <p>85.8 - 87.0m: Weak to moderately silicified locally, in association with greyish quartz bands up to 10cm wide, ill-defined, pervasive. Weakly garnetiferous and biotitic, with 0.5% pyrrhotite-pyrite.</p>

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-1

Page 7

FROM	TO	LITHOLOGICAL DESCRIPTION
		87.0 - 90.0m: Strongly mineralized interval. Contains 8-20% pyrrhotite-pyrite bands, stringers, and disseminations. Weakly biotitic, gradually becoming more chloritic and garnetiferous downhole.
		90.0 - 93.2m: Strongly garnetiferous, weakly biotitic and chloritized, medium to dark greyish-green. Weakly silicified in proximity to a 20cm wide greyish quartz stockwork near 92.3m. Pyrrhotite-pyrite mineralization, 0.5%.
93.2	97.3	(MODERATELY MINERALIZED MAFIC VOLCANIC FLOW) Upper contact marked by the abrupt absence of garnets. Fine-grained, medium-grey, amphibolitized, with brownish tinge due to presence of fine biotite throughout, locally defining diffuse banding. Weak to moderately bleached locally by white muscovite(?). Moderately foliated at 65 deg. tca. About 0.5% quartz stringers. Mineralized by pyrite-pyrrhotite (ratio 95:10), 2-3% locally, perhaps 0.5% overall, as fine disseminations to wisps parallel to the main foliation. 93.2 - 93.7m: Bleached, medium brownish-grey, moderately biotitic, accompanied by a white mica (muscovite?), weakly silicified. Foliation moderate at 60 deg. tca. Most mineralized interval, with about 2% disseminated to wispy pyrite, minor pyrrhotite.
97.3	108.8	(MASSIVE MAFIC FLOW) Upper contact arbitrarily selected by the gradual disappearance of significant sulphides. Very similar to previous unit, fine grained, medium greenish-grey, quite homogenous, with the foliation less well apparent but still moderate, at about 57 to 67 deg. tca, defined by the preferred orientation of fine amphiboles and biotite. Overall weakly biotitic. Trace of very fine ghostly feldspar phenocrysts locally observed. Mafic flow (or synvolcanic dyke?), massive, possibly of different composition than previously observed ones due to absence of garnets and leucoxene; Appears slightly more siliceous although quartz is not distinguished (too fine?). Quartz+/-feldspar+/-epidote

BYNG PROPERTIES INC.

DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-1

Page 8

FROM	TO	LITHOLOGICAL DESCRIPTION
		stringers and veinlets, up to 5cm wide, 1-2%. Non-magnetic. Pyrite trace overall.
		99.6 - 99.9m: Felsic Dykelet Contacts sharp at 42 deg. tca. Granodioritic, with about 10% amphiboles, up to 1.5mm, preferentially oriented, defining a moderate foliation at 60 degrees tca. Contains 0.5% fine disseminated pyrrhotite, trace pyrite.
108.8	115.4	(WEAKLY MINERALIZED SHEARED MAFIC VOLCANIC) Upper contact defined by abrupt presence of moderate epidote+/- epidote stringers and banding, which gives the rock a more strongly foliated texture, defined by alternating shades of grey (amphiboles, magnetite), brownish-grey (more biotitic), and light green (epidotized) pseudo-laminations and bands. Patchy alteration locally suggests the presence of flattened fragments. Protolith appears to be a sheared mafic mafic flow or flow breccia, possibly including minor clastic sedimentary beds (ie. Possible grewacke bed, 10cm wide, near 110.3m). Weak to moderately magnetic. Minor garnets locally. Weakly silicified locally. Foliation appears locally folded, subparallel tca, but overall at 65 to 75 deg. tca. Contains 5% greyish-white quartz stringers and veinlets, up to 2cm wide, sheared, boudinaged, also accompanied by epidote along the margins. Mineralization consists of fine disseminated to wispy pyrite, minor pyrrhotite, perhaps 10% locally, <1% overall. 113.4 - 114.0m: Intermediate to Felsic Feldspar Porphyry Dyke Upper contact sharp at 38 deg., lower contact sharp at 58 deg. tca, weakly chilled. Light greeish-grey, with about 30% subhedral white feldspar phenocrysts (1 to 4mm), contained within a cloudy, fine-grained groundmass (moderately saussuritized), with <4% mafic minerals. Very weakly foliated. Trace of disseminated pyrrhotite and pyrite. 114.7 - 115.4m: Intermediate to Felsic Feldspar Porphyry Dyke Contacts irregular, at about 60 deg. tca. Similar to previous dyke described above, only locally saussuritized, mainly along microfractures subparallel to the foliation.

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115.4 119.0 (MASSIVE MAFIC VOLCANIC FLOW)

Upper contact arbitrarily selected. Very similar to overlying unit, but gradually becoming more massive, with minor epidotized patches. Brownish-green, weakly biotitic, amphibolitized, moderately foliated at about 63 to 73 deg. tca. Quartz+/-calcite+/-hematite+/-epidote stringers and veinlets decreasing downhole, to 2-3%. Pyrrhotite-pyrite trace, to 0.1%.

119.0m: End of Hole.

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
77.00	-44.00	

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 HOLE No.: BG01-2
 Collar Eastings: -300.00
 Collar Northings: -417.00
 Collar Elevation: 0.00

Date: 18/Jan/01-20/Jan/01
 Logged by: J. Samson
 Collar Inclination: -45.00
 Grid Bearing: 180.00
 Final Depth: 149.00 metres

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0.0 10.0 (OVERBURDEN)

10.0 41.3 (INTERBEDDED MAFIC TUFF AND SEDIMENTS)

Tuffaceous mafic rock, locally garnetiferous, interbedded with minor magnetite iron-formations and fine clastic sediments, and cross-cut by several intermediate to felsic feldspar-porphyry dykes. The tuffaceous mafic rocks are medium greenish-grey to grey, fine to medium-grained, weakly banded, strongly amphibolitized, comprised of over 50% amphibole to biotitic-amphibole (black, <1 to 2mm), contained within a fine matrix of amphibole, feldspars, minor quartz and carbonate (calcite). Fine white leucoxene (ie. 17.8m) and garnets (up to 1cm, locally up to 10-15%) are scattered throughout the core, from trace to 15% locally. Foliation is moderately developed, at 58 deg. tca. An early generation of quartz-calcite+/-epidote+/-hematite veins occurs as bands up to 5cm wide, 1-2%, weakly folded to dislocated (ie. 14.0 to 14.5m), contains trace disseminated pyrite. A second generation of quartz-calcite stringers, <0.5%, up to 1cm wide, contains traces of chalcopryite (ie. 20.6m). A third generation of greyish quartz-calcite stringers, 1%, hairthin to 2mm wide, at various angles, infilling fractures, is mostly cross-cutting the main foliation. Pyrite <1%, as fine disseminations and stringers. Trace of chalcopryite and sphalerite disseminations, mainly in association with the veins.

13.1 14.3 (Intermediate to Felsic Feldspar Porphyry)
 Upper contact fractured, lower contact conformable, at 53 deg. tca. Medium-grey dyke, with variable amounts of anhedral white feldspar (up to 40% locally, generally <1mm), contained within a fine and cloudy groundmass of quartz, feldspars, 5-10%(?) biotite-chlorite, and dusty pyrite disseminations (<0.5%), and trace disseminated chalcopryite. Weakly foliated, fuzzy. Includes less than 1% quartz-calcite stringers.

14.1 - 14.2m: Narrow wallrock sliver.

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14.3	15.2m	Mafic tuff grades into an oxide iron-formation from 14.6 to 15.0m. The iron-formation is dark grey to black, contains 15-20% fine pseudolaminated magnetite, 1-2% garnets, and is accompanied by white to greyish-white quartz veining, 25%, up to 3cm, parallel to the main foliation, at about 25 to 50 deg. tca. Pyrite disseminations, wisps, and stringer bands, fine-grained to 2mm recrystallized cubes, perhaps 1-2%, both within the veins, along their margins, and within the wallrock. Trace of light yellow sphalerite, and trace chalcopyrite.
15.2	17.0m	Amphibolitized tuffaceous mafic rock, as previously described. Pyrite disseminations and wisps, <0.2%.
17.0	17.3m	Intermediate/Dioritic Dykelet. Upper and lower contacts fairly sharp, sheared, parallel to the foliation. Medium-grey to pinkish-grey, fine-grained, but with discernible mafic mineral (5-10%), contained within a fine groundmass of quartz-feldspar-calcite. Similar to previously described intermediate to felsic dyke further uphole, but non-porphyrific. Weakly hematized, and very weakly carbonatized. Weakly foliated at about 60 deg. tca. No veining. Contains <0.2% dusty sulphide (pyrite and/or chalcopyrite).
18.2	19.2m	As previously described, but accompanied by semi-massive pyrite stringers and bands, seemingly injected along microfractures, from 18.3 to 18.4m, comprising 10-15% of the 10cm interval, and accompanied by 10-15% quartz-calcite veining, and weak chloritization of the wallrock. Fine magnetite disseminations also present.
19.2	19.4m	Iron-formation, banded light to dark grey by alternating magnetite and magnetite-calcite laminations, 0.2 to 2cm. Disseminated to wispy pyrite, 1%.
19.4	21.8m	Amphibolitized tuffaceous mafic rock, weakly chloritic. Fine disseminated pyrite <0.2%.
21.8	23.7	(Intermediate to Felsic Feldspar Porphyry Dyke) Upper contact sharp, parallel to foliation at 24 deg. tca. Lower contact fractured over 30cm. Light grey, with 25 to

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50% anhedral feldspar phenocrysts contained within a cloudy groundmass, as previously described porphyry dyke further uphole. Weakly foliated, at about 47 deg. tca. Some of the feldspars are weakly hematized, pinkish, mostly the margins. Chalcopyrite trace, fine disseminated.

23.7 - 26.6m: Garnetiferous mafic tuff to lapilli-tuff. Fine-grained, dark green to dark greenish-grey. Weakly biotitic locally. Garnets are scattered throughout, from trace to perhaps 20% locally, roughly defining bands, less than 30cm wide. Light grey to white pseudoclasts are common, up to 40%, generally less than 3cm long, may represent flattened felsic clasts, or were possibly derived from ripped-up pillow rims and/or cherty bands. Moderately foliated at 57 deg. tca.

26.6 - 29.3m: Mafic to Intermediate Tuff(?)
Apparent upper contact defined by the abrupt disappearance of garnets. Rock is more greyish, and appears to be more siliceous (intermediate?) in composition, possibly relating to the proximity of the dykes further downhole. Fine-grained, with no defined bedding or laminations. Felsic-looking clasts are minor but locally observed, and present similarities to the overlying unit. Trace of dusty chalcopyrite disseminations and wisps along microfractures, subparallel to the foliation, at 56 to 62 deg. tca.

29.3 - 29.9m: Mafic to Intermediate Dyke.
Upper contact sharp, cross-cuts foliation at 59 deg. tca. Medium-grey, fine-grained, and fairly homogenous, like a fine wacke. Very weakly hematized. Faint foliation at 37 deg. tca. Moderately blocky, fractures, with 1-2% hairthin calcite-quartz stringers infilling fractures at all angles tca, often very oblique tca. Feldspar-porphyry xenoliths noted near upper contact. Trace of dusty pyrite disseminations.

29.9 - 30.3m: Intermediate to Felsic Feldspar Porphyry Dyke
As previously described. Contacts sharp at about 38 deg. tca. Weak hematization near the margins. Cloudy, weakly foliated.

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30.3 - 33.6m: Mafic to intermediate tuff to lapilli-tuff(?). Medium grey, fine-grained, but with discernible feldspar crystals scattered throughout, diffuse, perhaps 1-2%, which increase to over 10-15% further downhole, giving the rock and intrusive texture, although definite contacts are not observed. Weakly biotitic bands, 1 to 10cm locally poorly defined. Overall similar to the interval from 26.6 to 29.3m.

33.6 34.8 (Intermediate to Felsic Feldspar Porphyry Dyke)
As previously described. Upper contact sharp at 37 deg. tca, lower contact sharp but irregular, at about 57 deg. tca. Pinkish-grey, weak to moderately hematized, more intensively near the margins. About 30-40% feldspar phenocrysts, aver. 1mm, within a cloudy and weakly foliated groundmass, at 47 deg. tca. Mafic minerals (partially chloritized amphiboles?) comprised less than 5% of the groundmass. Calcite-quartz+/-epidote stringers are hairthin, at all angles tca, 1%. Trace of disseminated pyrite.

34.8 - 38.7m: Mafic to Intermediate Rock. Medium greenish-grey, locally weakly pseudobanded due to deformation(?), and locally more massive and seemingly intrusive in texture. Generally fine-grained, locally appears chilled, and locally grades into gneissic-looking bands (segregation into felsic bands?), characterized by the presence of 15-20% preferentially oriented amphiboles (1-2mm), contained within a feldspathic groundmass. The weak foliation is at 59 deg. tca. Weak hematization locally. Quartz-calcite+/-hematite stringers and veinlets, up to 1cm wide, at various angles, 1%.

36.6 - 37.0m: Moderately fractured core.

38.7 - 39.1m: Intermediate to Felsic Feldspar Porphyry Dyke
Upper contact sharp but irregular, cross-cuts foliation, suggests an orientation north to northwesterly. As previously described, weakly hematized, weakly foliated at 43 deg. tca.. Contains trace of dusty pyrite and chalcopyrite, mainly near the margins. Trace of pyrite wisps also within the dyke, infilling microfractures. Hairthin quartz-calcite+/-epidote+/-hematite stringers, at all angles tca, 1-2%.

39.1 41.3 (Intermediate Dyke/Diorite)
Upper contact sharp but irregular, lower contact fractured.

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		<p>Medium-grey to pinkish-grey, massive, homogenous, fine-grained, with 15% amphiboles (generally <1mm), contained within a slightly finer groundmass of quartz, feldspar, and possibly chlorite. Very weakly pervasive hematization gives rock a pinkish hue. Foliation is very weak, at 64 deg. tca. Perhaps 0.5% hairthin quartz-calcite+/-epidote+/-hematite stringers, at all angles. Trace of dusty pyrite disseminations.</p> <p>40.5 - 41.3m: Weakly vuggy core, mostly along the quartz-calcite stringers, nearing the fault zone.</p>
41.3	53.3	<p>(MAFIC ROCKS AND VARIOUS DYKES/FAULT ZONE)</p> <p>Strongly fractured over 75% of interval, sheared, brecciated, locally ground to gouged. About 90% core recovery. Interval is hosted by mafic volcanic rocks, and several dykes of various composition.</p> <p>41.3 - 41.6m: Gouged core, essentially all mud.</p> <p>41.6 - 42.6m: Strongly sheared at 46 deg. tca., brecciated to gouged locally. Light to dark green to black, consists mostly of mud, carbonate(reacts to HCl-acid), chlorite and remnant amphiboles, and epidote. Protolith was probably of mafic composition. Dusty pyrite wisps and disseminations, trace overall.</p> <p>42.6 - 42.9m: Felsic Dykelet. Upper and lower contacts parallel to the main schistosity, at 40 deg. tca. Greenish-white, fine-grained, appears tonalitic. Dyke is gritty, appears completely bleached, containing only feldspars and minor epidote; Quartz was possibly leached-out by alkaline solutions. Weakly foliated and fractured.</p> <p>42.9 - 46.5m: Moderate to strongly sheared mafic rock, brecciated, giving rock a pseudolaminated texture at 70 deg. tca (mafic tuff?), strongly fractured to ground and nearly gouged locally. Similar in composition to interval from 41.3 to 42.6m. Minor tonalitic dykelets (less than 15cm wide) are observed near 44.7 and 45.4m. Fine dusty pyrite is locally found up to 0.5%, less than 0.5% overall.</p> <p>46.5 - 48.5m: Strongly magnetic locally, relating to the</p>

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		presence of abundant magnetite (weak oxide iron-formation), defining bands and laminations at about 45 deg. tca. Core is strongly fractured, ground locally. Moderate to strongly chloritic, with minor epidote defining bands or in association with quartz-calcite stringers at various angles tca. Dusty disseminated pyrite and pyrite seams, mostly parallel to the main schistosity, no more than 1% overall. Possible trace of chalcopyrite. Trace pyrrhotite.
		48.5 - 51.0m: Strongly fractured, essentially all ground. Protolith appears mafic.
		51.0 - 52.2m: Light greenish-grey, fine-grained, possibly a mafic tuff, bleached by pervasive moderate carbonate (calcite) alteration. Weak to moderately foliated, at various angles tca. Pyrite trace?
		51.7 - 52.2m: Weakly fractured to gouged locally.
		52.2 53.3 (Intermediate to Felsic Feldspar Porphyry) Upper and lower contacts fractured, accompanied by gouged wallrock. Moderately fractured, and weakly foliated at about 60 deg. tca. Light grey, similar in composition to previous feldspar porphyry dykes, but appears perhaps more granitic, less altered, more fresh, and contains at least 5-7% mafic minerals. Very weakly hematized, more so over the lower 30cm interval, where it contains abundant irregular fractures infilled by chlorite.
53.3	62.1	(MASSIVE MAFIC FLOW TO SYNVOLCANIC DYKE) Interval consists of mafic rocks with textures locally changing from possibly extrusive to intrusive, with no clear or no well-defined contacts. 53.3 - 55.1m: Mafic Dyke/Massive Flow Upper contact is gouged, and lower apparent contact correlates with a fracture zone. Medium grey rock, fine to medium-grained, relatively homogenous, and essentially non-foliated, appears intrusive although it may also represent the massive portion of a syn-volcanic flow. Moderate to strongly magnetic, moderately carbonatized

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(calcite). Only weakly fractured overall. Non-foliated, essentially no veining Pyrite as dusty disseminations and occasional seams, up to 0.5% locally, perhaps 0.3% overall.

55.1 - 56.2m: Mafic Volcanic Flow

Medium green to greenish-grey, fine-grained. Non-magnetic to very weakly magnetic locally. Very weakly foliated, becoming strongly sheared at 58 deg. tca. near lower contact representing margin to dyke. White quartz veinlets, sheared, 1%. Chalcopyrite splashes and pinheads, trace, closely associated with <1% fractures infilled by quartz and along the foliation planes.

56.2 57.3 (Intermediate to Felsic Feldspar Porphyry Dyke)

Upper contact sharp but very irregular and oblique tca. Lower contact sharp an irregular at about 40 deg. tca. As previously described, medium pinkish-grey, with up to 50% anhedral to subhedral feldspars (up to 5mm, aver 1mm), within a cloudy (saussuritized) groundmass of quartz, feldspar, and 2-3% mafic minerals. Overall weak pervasive hematization. Weakly foliated at 48 deg. tca. Contains 0.5% hairthin quartz-calcite+/-epidote+/-hematie stringers, at all angles tca.

57.3 - 62.1m: Mafic Dyke/Massive Mafic Flow

Somewhat similar to previously described dyke from 53.3 to 55.1m, but finer-grained overall. Color varies from light to medium-grey, to green locally, reflecting variable intensity of bleaching by carbonate (does not react to acid) and/or amphiboles (actinolite?). Overall quite massive, appears non- to weakly foliated, with narrow intervals locally strongly sheared, fractured and gouged (10-20cm wide, <10%). The sheared intervals may represent strongly deformed and chloritized mafic volcanic slivers, but no clear contacts are anywhere observed between any of these variable textures. The more massive and greyish intervals are locally strongly magnetic, probably relating to fine disseminated magnetite.

57.5 - 58.0m: Light grey to white interval, fine-grained, very soft, highly altered, comprised essentially of carbonate (?- does not react to HCL) and a light-colored amphibole, possibly actinolite?.

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62.1	65.3	<p>(INTERMEDIATE TO FELSIC FELDSPAR PORPHYRY)</p> <p>Upper contact sharp at 55 deg. tca. lower contact sharp at 48 deg. tca. Medium to light pinkish-grey, weakly hematized, as previously described, with about 40-50% feldspar phenocrysts, generally 1-2mm in dia., contained within a cloudy (weak to moderately saussuritized) groundmass of quartz, feldspars, and about 5% weakly chloritic amphiboles. Weakly blocky core. Weakly foliated at 58 deg. tca. Trace of hairthin quartz-calcite-epidote stringers.</p>
65.3	70.4	<p>(MASSIVE MAFIC FLOW)</p> <p>Medium greyish-green to green, fine-grained, essentially massive, similar to previously described possible mafic dykes further uphole, but generally weakly to moderately foliated, locally sheared. Amphibolitized, locally appears bleached and soft due to pervasive carbonate (not calcite). Chlorite common on fracture planes, and moderately strong and pervasive where sheared.</p> <p>65.3 - 66.2m: Weakly foliated, locally sheared at 43 deg. tca. Essentially no veining. Feels greasy, weak to moderately carbonatized and chloritic. Pyrite trace, fine disseminated.</p> <p>66.2 - 66.8m: Intermediate to Felsic Feldspar Porphyry Dyke. As previously described, light grey, essentially non-hematized. Strongly fractured, accompanied by 15% bull white quartz veining, non-mineralized.</p> <p>66.8 - 67.5m: Mafic volcanic, moderately foliated at 47 deg. tca. Moderate to strongly fractured. No sulphides noted.</p>
67.5	69.3	<p>(Intermediate to Felsic Feldspar Porphyry Dyke)</p> <p>Upper contact fractured, lower contact sharp at 56 deg. tca. As previously described, medium greenish-grey, to grey, to pinkish-grey, reflecting various intrusive pulses accompanied by variable intensities of alteration by hematite and saussurite. Overall, alteration weak. Non- to very weakly foliated. Trace of quartz-epidote stringers, accompanied by trace of chalcopyrite.</p>

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69.3	70.4m	<p>Mafic volcanic, as above, gradually displaying alternating green to black laminations going downhole, oriented at 51 deg. tca. The darker laminations appears to contain abundant amphiboles, and minor magnetite. Weakly blocky core. Weakly chloritic. Contains 0.5% quartz-calcite stringers, locally vuggy. Notably, light yellow sphalerite increases in abundance going downhole, from trace to perhaps 1% locally, <0.3% overall. It occurs as wisps parallel to the main foliation (51 deg.), and as seams infilling microfractures subparallel to the core axis. Pyrite blebs and minor wisps are also present, <0.2%.</p>
70.4	89.5	<p>(CHERTY INTERFLOW SEDIMENTS/LEAN IRON-FORMATION)</p> <p>Interval is light to medium grey, pseudolaminated to banded, and appears to consists of a mixture of chert, cherty argillites, and fine clastic sediments. The interval is amphibolitized, weak to moderately biotitic, locally weakly garnetiferous. A white mica (muscovite?) is commonly observed throughout. The apparent bedding is parallel to the moderate foliation, which locally defines a slaty cleavage. The foliation angles are predominantly at 58 deg. tca., but is locally tightly folded, subparalle tca. The rocks are variably magnetic, from very weak to moderate, to the presence of fine magnetite, and pyrrhotite locally. Quartz+/-feldspars are scattered, 0.5 to 2cm, <0.5%. Greyish-white "pseudostringers" are found everywhere, 10%, with diffuse edges, locally folded, are though to represent ripped-apart and recrystallized chert beds. Pyrite and lesser pyrrhotite occur as disseminations, seams and stringers, mainly parallel to the foliation, up to 1% locally, 0.5%(?) overall. Chalcopyrite and sphalerite trace.</p> <p>70.4 - 71.3m: Interval is medium green to greyish-green, and appears to consist predominantly of moderately silicified and weakly chloritized mafic volcanic, possibly intermixed with minor chemical and clastic sediments (mainly chert). Blocky core, cross-cut by a 10cm-wide band of greyish-white quartz stockwork. Core is locally dark greenish-grey, strongly siliceous, and may include recrystallized chert. Interval is strongly mineralized, with perhaps 1-2% pyrite and up to 1% yellow to orange sphalerite, which occurs as disseminations, stringers and</p>

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		<p>wisps, both within the host rock and within the quartz veins. The sulphides occurs mostly parallel to the main shistosity at 60 deg. tca. but are locally remobilized along microfractures and seams at various angles tca.. Trace of chalcopyrite and a trace of a silvery flaky mineral (galena?), was observed near 71.0m and near 71.1m.</p>
		<p>71.3 - 72.2m: Strongly to moderately cherty; Upper contact sharp at 63 deg. tca. Blocky to strongly fractured locally, including a vuggy 10cm-wide vein of quartz-calcite vein. Pyrite disseminations and minor wisps, 0.2%. Sphalerite trace.</p>
		<p>72.2 - 75.0m: Similar to above interval, but less cherty, probably containing a larger proportion of fine clastic sediments. Weakly garnetiferous (1-2%), generally 1-2mm. Interval contains perhaps 3% silvery white mica books, <1 to 2mm across. Foliations are at 58 deg. tca., locally tightly folded. Pyrite disseminations and stringers, 0.3 to 0.1%, seemingly decreasing in abundance downhole.</p>
		<p>75.0 - 75.2m: Mafic Tuff? Medium-green, moderately foliated at 56 deg. tca. Appears bleached, carbonatized (not calcite), is weakly garnetiferous.</p>
		<p>75.2 - 78.1m: Mixed cherty sediments mafic-tuffs to possible clastic sediments, as previously described above. Weakly garnetiferous throughout. Also strongly micaceous (muscovite?). Pyrite disseminations, wisps and blebs, 0.1% (more than trace).</p>
		<p>78.1 - 78.7m: felsic Dykelet/Granodiorite Upper contact sharp but wavy at 56 deg. tca, lower contact sharp at 67 deg. tca. Medium-grey, medium-grained and more or less equigranular, with perhaps 75% white feldspars (subhedral to anhedral, aver. 1mm), contained within a slightly finer groundmass of quartz, and 5-7% mafic minerals (amphiboles and biotite). Slightly cloudy mineralogy, but overall appears much younger than any previously observed dykes, granitic in composition. Massive, homogenous, non-foliated. Essentially no veining. Trace of dusty pyrite.</p>
		<p>78.7 - 79.2m: As previously described, cherty sediments and</p>

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		tuffs?. Includes a rounded mafic bomb(?) near 78.8m, surrounded by a 5mm rim of recrystallized chert.
		79.2 - 79.5m: Felsic Dykelet. Contacts sharp. Granitoid dykelet as previously described from 78.1 to 78.7m. Trace of disseminated pyrite and pyrrhotite.
		79.5 - 80.7m: As previously described cherty sediments and tuffs, becoming gneissic, moderately to relatively strongly micaceous (biotite and muscovite?). Moderately foliated at 53 deg. tca. Pyrite-pyrrhotite disseminations and seams, 0.1%.
		80.7 - 82.4m: Mixed zone of granodioritic dykelets and cherty tuffaceous sediments. As previously described. Pyrite-pyrrhotite wisps and disseminations, 0.2%.
		82.4 - 89.5m: As previously described, chert and cherty sediments, probably intermixed with fine clastic sediments and minor mafic tuffs. Overall, very hard, siliceous, predominantly cherty, pseudomylonitic at 66 deg. tca, moderately foliated to weakly folded locally. Fairly micaceous, by what seems to be a combination of fine biotite and muscovite(?). Hairthin epidote-calcite stringers locally. Greyish-white quartz veinlets 0.2 to 2cm wide, 1%. Pyrite occurs as disseminations, wisps, to semi-massive stringers up to 0.5cm wide, accompanied by chloritic margins. Pyrite increases from 0.1% to <1% further downhole. Pyrrhotite 0.1%, trace chalcopyrite and sphalerite.
		85.8 - 86.5m: Interval includes an irregular 10cm-wide band of calcite-quartz, mineralized with over 5% pyrrhotite, trace pyrite, and a reddish anhedral mineral (5%?) which partially reflects the presence of hematite, garnets, and possibly sphalerite.
		87.9 - 88.4m: Felsic Dykelet. Granodioritic in composition, late granitic dykelet, as previously described, but weakly foliated. Contacts are sharp, at about 71 deg., with the wallrock foliation deflected accordingly. Trace of disseminated pyrite.

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89.5	110.5	(GRANODIORITE TO FELDSPAR PORPHYRY DYKE) Medium-grey to light grey, mostly medium-grained (aver. 1mm), equigranular to locally feldspar porphyritic, consisting mainly of about 75-80% feldspars, and variable amounts of fine quartz and amphibole to biotitic amphibole. Essentially massive, non to very weakly foliated, and appears late (of relatively younger age). The composition and textures change gradually and suggests that the porphyritic phases previously described are probably related to this intrusion. Contains slightly more than trace of dusty disseminated pyrite/pyrrhotite. Several slivers of the wallrock (sediments) are present, moderate to strongly sheared, and preferentially mineralized by 0.5 to 2% stringer pyrite, trace pyrrhotite and sphalerite. Epidote coating common on fracture planes. 92.5 - 93.0m: Wallrock sliver of sheared fine clastic sediments(?). Similar to previously described interval above the dyke. Contains 0.5% pyrite, pyrrhotite. Moderately sheared at 58 deg. tca. 94.3 - 94.4 94.5 - 94.7 95.3 - 95.5 97.7 - 98.0m: Additional wallrock slivers of cherty to fine clastic sediments, as described above. 100.3 - 100.9m: Fine clastic sedimentary(?) wallrock sliver, as before, medium-grey to purplish-grey, weak to moderately magnetic (very weakly oxidized to hematite locally), amphibolitized, with 1-2% disseminated to stringer pyrite, trace of reddish-brown sphalerite. Moderately sheared at 59 deg. tca. Possibly weakly silicified. 101.7 - 101.8 103.4 - 103.6 104.6 - 104.8m: Mineralized wallrock slivers of cherty sediments to clastic sediments, with up to 1-2% disseminated to stringer pyrite, minor pyrrhotite, and trace sphalerite. 105.0 - 105.5m: Amphibole-phyric intermediate intrusive

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pulse, with sharp contacts at 50 deg. tca. Contains about 15% chloritic amphibole phenocrysts, euhedral, up to 1cm long, within a fine-grained dioritic groundmass. Weakly foliated at 50 deg.

106.7 - 106.9

108.5 - 109.6m: Medium-grey wallrock slivers of fine clastic sediments, moderately sheared at 65 deg. tca. Greyish-white quartz veinlets, up to 1.5cm, parallel to the main schistosity, 1-2%. Mineralized as before, with disseminated to wispy and stringer pyrite, up to 1%, with minor pyrrhotite, and trace reddish-brown sphalerite.

110.5 119.0 (INTERFLOW SEDIMENT AND TUFF/LEAN IRON-FORMATION)

Interval appears to grade downhole from a greyish zone of mixed cherty to fine clastic sediments (fine wacke), towards an interval more predominantly composed of chert, intermixed with dark grey to greyish-green mafic tuffaceous sediments and tuffs. The rock is similar to the previously described horizon further uphole, with apparent laminations parallel to the main schistosity/foliation, at 57 deg. tca. Shearing has dislocated all beds, giving the rock a pseudo-laminated to lapilli-like texture. Minor tightly folded to convoluted intervals. From 113.5 m and beyond, the rock is generally darker, weakly chloritic, moderately garnetiferous, moderate to strongly magnetic due to the presence of pyrrhotite and magnetite. Greyish-white quartz veinlets up to 15cm wide, 5% overall. Mineralization consists of wispy to semi-massive stringer-bands of pyrite and pyrrhotite (ratio of 40:60), with 0.1%(?) sphalerite (more than a trace). Overall, 0.5 to 2% sulphides, both within the quartz veins and within the host rock.

110.5 - 114.0m: Quartz veining 1%. Sulphides 0.5%.

114.0 - 116.1m: Quartz veining, 5%. Very siliceous (silicified?) interval. Sulphides 1-2%.

116.1 - 117.1m: Greyish-white and semi-translucent quartz veining, parallel to the schistosity, about 25%, accompanied by 2% pyrrhotite-pyrite, and 0.2% sphalerite. Trace chalcopyrite.

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		<p>117.1 - 119.0m: Greyish quartz veining, 1-2%. Sulphides, <1% pyrrhotite-pyrite, trace sphalerite. Interval is locally cherty, but predominantly appears to be derived from an amphibolitized mafic tuff.</p>
119.0	121.0	<p>(DIORITIC DYKE) Upper and lower contacts sharp but irregular, at about 15 deg. tca, defined by irregular 1-3cm wide quartz veinlets. Medium-dark grey, medium-grained, comprised of about 20% black amphiboles and possibly biotite, contained within a white to greyish groundmass of feldspars and minor quartz (10%). Weakly foliated at about 15 deg. Trace of quartz-calcite stringers. Dusty disseminated pyrite, 0.1% (more than trace).</p>
121.0	149.0	<p>(GARNETIFEROUS MAFIC TUFF AND SEDIMENT) Dark grey to dark greenish-grey, fine-grained, displaying very diffuse bands and laminations, reflecting variable compositional "pseudo-bedding", from amphibole-rich laminations (dark green, weakly chloritic), to magnetite-rich laminations (dark-grey), to pinkish intervals dominated by porphyroblastic garnets up to 1cm in dia. Overall, weakly chloritic, locally weakly silicified, weak to moderately magnetic, with 5-8% garnets. Protolith is probably a mafic tuff, intermixed with a minor fine clastic sediment component. Moderately foliated at 55 to 65 deg. tca, weakly folded locally. Greyish quartz veinlets mainly parallel to the foliation, boudinaged, up to 1cm-wide, <1%. Sulphide mineralization (pyrite-pyrrhotite, trace sphalerite) decreases downhole, from 1% locally, to <0.2% beyond 125.6m. 121.0 - 124.6m: Mixed zone of mafic tuffaceous rocks, interbedded with minor dark grey and fine-grained sediments. The rock is pseudolaminated, as before, and is cross-cut by several dioritic to feldspar porphyritic dykelets whose contacts are ill-defined. Weakly chloritic, moderately garniteferous in places, weak to moderately magnetic. Disseminated pyrite, locally recrystallized up to subhedral masses 0.5cm in dia., to wisps and minor stringers.</p>

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		1% locally, 0.3% overall. Pyrrhotite 0.1%, and trace sphalerite.
	121.5 - 122.3	
	122.8 - 123.2m	Intervals dominated by dioritic intrusions, with poorly defined contacts.
	124.6 - 125.6m	Mafic tuff, pseudolaminated with dark greyish and siliceous bands (recrystallized chert?), and cross-cut by greyish quartz bands (veinlets) up to 15 cm wide, comprising 20% of interval. Contains about 1% pyrite-sphalerite, with minor pyrrhotite, as seams and stringers, mainly parallel to the foliation/laminations, at 65 deg. tca.
	125.6 - 135.6m	As described within the general description of the unit. Pyrite-pyrrhotite stringers and seams mainly parallel to the foliation, 0.2%. One isolated semi-massive pyrite-quartz stringer (1cm wide) occurs near 131.0m.
	135.6 - 135.8m	Diorite Dykelet. As previous descriptions, with sharp contacts relatively oblique tca, at 20 deg., accompanied by deflection of the foliation within the wallrock. Dykelet itself is very weakly to non-foliated.
	136.3 - 138.6	(Diorite Dyke) Contacts sharp at about 40 to 45 deg. tca. Medium-grey, fine to medium-grained (0.5 to 1mm), more or less equigranular to weakly feldspar porphyritic locally. Comprised of 50% weakly greenish (weakly chloritized) amphiboles, minor biotite(?), and 40% feldspars, with perhaps up to 10% fine quartz. Non- to very weakly foliated, massive, and fairly homogenous. White quartz +/-feldspar+/-hematite veinlets, up to 5cm wide, 2-3%. Very weakly magnetic. Trace of dusty pyrite/pyrrhotite.
	138.6 - 149.0m	As previously described, mixed mafic tuffs and fine clastic sediment, garnetiferous. Weak pervasive silicification. Pyrite-pyrrhotite disseminations and wisps, 0.1-0.2%.
	149.0m	End of Hole.

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DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
77.00	-45.00	
149.00	-43.00	

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 Collar Eastings: -1400.00
 Collar Northings: -270.00
 Collar Elevation: 0.00

Date: 23/Jan/01-24/Jan/01
 Logged by: J. Samson
 Collar Inclination: -45.00
 Grid Bearing: 180.00
 Final Depth: 161.00 metres

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0.0	7.0	(OVERBURDEN)
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7.0	20.8	(MASSIVE MAFIC VOLCANIC)
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Massive mafic volcanic rocks (massive flow), intruded by several granodioritic dykes. Blocky core, with hematite and minor epidote coating on fractures. The mafics rocks are dark greyish-green to green, fine-grained, moderately foliated at about 57 deg. tca. They are weakly chloritic in places, with trace feldspar phenocrysts locally observed, up to 1mm, smeared (ie. 11.5m). Quartz+/-epidote stringers, up to 0.5cm wide, locally vuggy (dissolved carbonate), <1%. Overall, pyrite trace.

The felsic dykes are medium to light grey, generally medium grained and equigranular, locally weakly feldspar porphyritic. The feldspar phenocrysts vary from <1 to 2mm, generally over 50%, contained within a granodioritic to quartz-dioritic groundmass, with 5-10% mafic minerals, mainly amphiboles. The dykes are weakly to non-foliated. Trace of dusty pyrite and/or pyrrhotite.

7.0 - 8.6m: Massive mafic volcanic, fine-grained, weakly feldspar-phyric, weak to moderately foliated at 60 deg. tca. Dismembered quartz stringers also present, 0.5%.

8.6 9.8 (Granodiorite Dyke)
 Granodiorite dyke as described above, massive, very weakly foliated. Contacts fractured.

9.8 - 13.4m: Mafic volcanic, as previously described, blocky, moderately fractured, locally sheared at 49 deg. tca. Quartz-calcite-epidote stringers, 2%.

13.4 - 13.8m: Intermediate to Felsic Dykelet
 As previously described, granodioritic, cross-cut by another pinkish-white (weakly hematized) and aphyric felsic dykelet (10cm wide). Upper and lower contacts irregular, at 50 deg. tca. Weakly foliated, weakly hematized, non-mineralized.

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13.8 - 16.4m: Massive mafic volcanic, fine-grained, dark green, moderately foliated at 57 deg. tca, locally pseudolaminated by the presence of occasional <1cm magnetite-garnet-rich bands. Brownish-red bands and laminations, appear to be comprised of hematite-calcite stringers and bands, up to 10cm wide. Pyrite wisps and stringers parallel to the foliation, 0.2 to 0.5%. Trace of brown sphalerite.

14.5 - 15.1m: Most strongly mineralized. Pyrite stringers and disseminations, 0.5%.

16.4 18.3 (Granodiorite Dyke)
Granodiorite, moderately fractured, very weak fracture-controlled hematization. Essentially non-mineralized.

18.3 - 18.9m: Mafic volcanic, moderately foliated at 60 deg. tca. Quartz stringers up 1cm wide, 2%.

18.9 - 19.4m: Granodiorite dyke, weakly epidotized. Contacts sharp at 61 deg. tca.

19.4 - 19.7m: Mafic sliver, weakly chloritic. Vuggy quartz veinlets, 1 to 5cm wide, 10-20%.

19.7 - 19.9m: Granodiorite dyke. As previously described.

19.9 - 20.0m: Mafic sliver.

20.0 - 20.5m: Granodiorite, weakly epidotized. Contacts sharp, at 58 deg. tca.

20.5 - 20.8m: Mafic sliver. Non-mineralized.

20.8 29.3 (GRANODIORITE DYKE)

Massive, weak to non-foliated. Granodioritic in composition. Essentially unaltered, weakly epidotized (saussuritized), with weak hematization along fracture planes. Fresh looking, with <1% quartz stringers. Trace of wispy to disseminated pyrrhotite.

24.3 28.0 (Fault Zone)

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		Strongly fractured to ground, with about 30% lost core. Hematite and epidote on fractures. Unaltered and non-mineralized.
		28.0 - 29.3m: Weakly blocky core.
29.3	33.0	(MASSIVE MAFIC DYKE/FLOW AND FAULT ZONE) Massive mafic flow, dark green, generally fine-grained, but fairly homogenous, seemingly less foliated than overlying mafic rocks, possibly a syn-volcanic intrusion (appears to intrude the underlying unit near 41.2 to 41.3m). Strongly fractured, with about 50%(?) lost core. Fe-oxide on fractures, locally oxidation of the biotite. Quartz-hematite stringers, <1%. Dusty pyrite disseminations, essentially a trace overall.
33.0	40.1	(GRANODIORITE DYKE) Upper and lower contacts at 50 deg. tca. Medium grey to pinkish-grey going downhole, accompanied by an increase in fracturing (moderately fractured) accompanied by weak pervasive hematization (fracture controlled), and epidote alteration along the fracture planes. Weakly foliated at 46 deg. tca. Quartz-hematite stringers and veinlets, about 2%. Composition is granodioritic, to weakly feldspar porphyritic in places. Essentially non-mineralized.
40.1	43.0	(MASSIVE MAFIC DYKE/FLOW AND FAULT ZONE) Dark green, fine-grained, similar to previously described mafic rocks, possible synvolcanic mafic intrusion near 29.5 to 33.0m. Strongly fractured, with about 60% core recovery.
43.0	46.1	(PILLOWED MAFIC FLOW) Upper contact sharp at 61 deg. tca. Medium light green (weakly bleached?), fine-grained, appears chilled from 43 to 45m, with possible pillow rim located near 44.8m. Notably however, the interval appears perhaps less foliated than

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		<p>other units, and is quite homogenous, with only a trace of quartz stringers, suggesting it may actually be intrusive.</p> <p>43.0 - 43.4m: Sheared mafic volcanic, moderately foliated at 60 deg. tca, moderately fractured. Weakly chloritized, with 1% dislocated quartz-hematite stringers.</p> <p>43.4 - 44.1m: Granodiorite dykelet, as previously described. Weakly foliated. Upper contact fractured, lower contact sharp at 68 deg. tca.</p> <p>44.1 - 44.5m: Light green and fine-grained, like a fine mafic volcanic or chilled margin to a mafic dyke. Includes a 10cm wide dark green mafic unit, slightly coarser-grained, with sharp contacts, seemingly intruding this interval, similar in composition to the possible mafic dyke located between 29.5 to 33.0m.</p> <p>44.5 - 44.7m: Granodiorite Dykelet. Same as previously described. Pinkish-grey, weakly foliated. Contacts sharp at 59 deg. tca.</p> <p>44.7 - 46.1m: Most homogenous interval, with possible pillow rim near 44.8m, and very subtle possible flow textures noted locally. Weakly chloritic. Non-mineralized.</p>
46.1	60.4	(MAFIC DYKE/FLOW)
		<p>Upper contact sharp, fractured. Mafic locally, medium green to greenish-grey, locally pinkish due to very weak hematization, accompanied by wispy mafic minerals (flattened chloritized amphiboles or clasts, 1 to 15mm) defining the foliation. It is not clear if this unit is a flow or a dyke. The rock appears chilled locally (chilled contacts?), but is overall homogenous. Further downhole, certain intervals appear tuffaceous, but contacts with the more massive intervals are not clearly defined. Weak to moderately foliated, at 45 to 65 deg. tca, blocky core. Quartz+/-hematite stringers and veinlets parallel to the foliation, 0.5 to 5cm wide, about 1-2%. Pyrite as dusty disseminations, minor seams and wisps, trace to 0.1%.</p>

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46.1 - 46.7m: Moderately foliated at 63 deg. tca.

46.7 48.0 (Intermediate Feldspar Porphyry Dyke/Tuff)
Upper contact sharp at 60 deg. tca., weakly sheared to brecciated. Lower contact fractured. Medium to dark grey-green, with up to 10-15% feldspar phenocrysts (anhedral and ghostly, generally flattened up to 2-3mm, weakly hematized), contained within a fine groundmass, weakly chloritic. Foliation moderate at 43 deg. tca. White quartz +/-hematite veinlets, up to 2cm wide, parallel to the foliation, 2%. Dusty pyrite disseminations, 0.1%.

48.0 - 48.6m: Weak pervasive hematization of the wallrock, pinkish-grey, fine-grained, moderately foliated at 59 deg. tca. Quartz-hematite stringers and veinlets, up to 3cm wide, sheared to dismembered, 5%. Dusty pyrite disseminations, 0.2 to 0.5%.

48.6 - 60.4m: Medium grey to greenish-grey, as previously described in the main introduction. Mafic, with subtle ghostly wisps throughout representing stretched mafic minerals. Moderately foliated at 65 deg. tca. Blocky core, strongly fractured locally. Quartz stringers parallel to the foliation, diffuse, 1 to 8mm wide, <1%. Pyrite trace.

51.3 53.2 (Mafic to Intermediate Tuff to Lapilli Tuff?)
Contacts arbitrarily selected, defined by the presence of very subtle ghostly feldspathic phenocrysts and clasts(?, locally over 1cm, 5%?, up to 1cm long), strongly flattened or stretched. Moderately foliated, appears sheared. Medium greyish-green, cloudy, with very diffuse mineralogy.

54.0 - 54.2m: Locally strongly fractured, to ground.

60.4 68.0 (MAFIC VOLC., FELDSPAR PORPH., AND QTZ STOCKWORK)

Contact selected by abrupt occurrence of about 30% bull-white quartz stockwork, with very irregular margins, brecciated, and abundant angular wallrock fragments, violently emplaced within a mixed host of mafic volcanic and to a lesser extent, within an intermediate to felsic feldspar-porphyry dyke. The mafic volcanic appears weakly

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silicified, and contains angular fragments of the quartz veins as well. The porphyry is less sheared, locally brecciated silicified, and contains less quartz veining, suggesting it was introduced relatively late during the silica flooding. Weak to moderate chloritization along local shear planes, accompanied by minor brick-red hematization. Notably, the quartz veins and the wallrock fragments contain up to 0.3-0.5% disseminated, galena, chalcopyrite, pyrite, sphalerite, and trace pyrrhotite. Overall, perhaps 0.1% sulphides. Light-yellow anhedral and granular mineral, vitreous is locally found (ie. 64.4m), disseminated, more than a trace (monazite?).

60.4 - 61.2m: Essentially massive bull-white quartz vein, weakly sheared, with irregular microfractures infilled by chlorite and epidote. Trace of disseminated galena.

63.4 - 64.5m: Includes a 20cm wide irregular vein with perhaps 0.5% galena, over 2mm in dia. in places, with 0.1% chalcopyrite.

65.7 - 66.6m: Intermediate to Felsic Feldspar Porphyry Dyke Contacts obscure. Light grey granodioritic dyke, more or less equigranular, with over 50% anhedral to subhedral feldspar +/-phenocrysts. Groundmass is cloudy, with <3% mafic minerals. Weakly foliated. Quartz stringers and veinlets, irregular, at various angles, predominantly parallel to the foliation, disrupted, weakly sheared, <1cm wide, 4-5%. Contains 0.1% dusty pyrite disseminations.

66.6 - 66.8m: Strongly sheared mafic wallrock sliver, weakly chloritic, with over 50% quartz veining. Contains a trace of a brownish and resinous mineral, possibly sphalerite.

66.8 - 67.3m: Intermediate to Felsic Feldspar Porphyry Dyke Upper contact fractured, lower contact sharp at 65 deg. tca. Same as observed between 65.7 and 66.6m, but very weakly foliated, and no veining observed.

67.3 - 68.0m: Includes 70% intermediate to felsic feldspar porphyry as previously described, and 30% sheared (at 60 deg. tca.) mafic volcanic. Contains about 25% irregular quartz stockwork veining, cross-cutting both host rocks, in various directions. Contains trace of rusty-brown

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		sphalerite(?), galena, chalcopyrite, pyrrhotite, and pyrite.
68.0	84.5	(GRANODIORITE DYKES, MAFIC VOLCANIC/FAULT ZONE)
		Interval consists predominantly of granodioritic to locally porphyritic dykes, as previously observed between 66.8 and 67.3m, with several remnant mafic volcanic slivers. Very blocky core, locally strongly fractured. The granodioritic dykes are light grey to medium-grey, weakly pinkish locally due to weak pervasive hematization. They are generally non- to weakly foliated, and essentially non-mineralized, non-altered, with trace of hairthin quartz stringers. The mafic volcanic slivers are dark to medium-green, fine-grained, moderately sheared to locally gouged, and weak to moderately chloritized, with perhaps 1% hairthin quartz stringers. Pyrite stringers and wisps, generally a trace.
		68.0 - 68.4m: Medium greyish-green mafic volcanic, moderately foliated, strongly fractured, non-mineralized.
		68.4 - 68.6m: Feldspar Porphyritic Dyke Medium-dark grey, strongly fractured. Non-mineralized.
		68.6 - 71.0 (Mafic Tuff and Sediment/iron Formation) Mafic rock (mafic tuff and clastic sediments?), dark green to dark grey, fine-grained, moderate to strongly fractured, sheared at about 55 deg. tca. Pseudolaminated to banded by dark green and chloritized intervals, to black magnetite-rich laminations locally. Contains wisps, stringers, and massive to semi-massive bands and pathes of pyrrhotite-pyrite (ratio 85:15), up to 10cm wide, with trace sphalerite. Overall, 7-10% sulphides. Greyish-white quartz stringers (possibly including minor recrystallized chert) and veinlets, mainly parallel to the schistosity, 5-8%, sheared, dismembered, also mineralized. Overall, weak to moderately chloritized and silicified, strongly magnetic, strongly sulphidized.
		71.0 - 72.4m: Mafic volcanic and trace porphyritic dykelets. Strongly sheared, brecciated, to locally gouged. About 10% lost core. Moderate to strongly chloritized, weakly carbonatized (calcite). Trace of dusty pyrite disseminations.

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		72.4 - 78.6m: Granodiorite predominantly, moderate to strongly fractured.
		73.0 - 73.1
		73.3 - 73.5
		74.4 - 74.5
		74.7 - 75.0
		76.3 - 77.0m: Mafic slivers, strongly fractured to gouged, chloritized.
		78.6 - 80.0m: Mafic volcanic, fine-grained, sheared, locally gouged, strongly fractured. Includes one pyrite stringer, <1cm wide, in proximity to a sheared quartz stringer, also weakly mineralized by pyrite. Overall, 0.2% pyrite.
		80.0 - 81.9m: Granodiorite dyke, weakly to non-foliated. Less than 1% quartz stringers.
		81.9 - 82.9m: Mafic volcanic flow. Medium to light-green, weakly bleached by a carbonate (not calcite) and by minor weak epidote banding. Moderately foliated at 61 deg. tca, locally gouged.
		82.9 - 84.5m: Granodiorite dyke, non-fractured, weakly to non-foliated, and essentially unaltered except for very weak hematization and saussuritization of the feldspars.
84.5	101.7	(GARNETIFEROUS MAFIC TUFFS, FELSIC ROCKS, CHERT)
		Intervals appears to be mostly comprised of garnetiferous mafic volcanic rocks (tuff?), intermixed and/or cross-cut by felsic rocks. The mafic rocks are fine-grained, medium greyish-green (bleached by carbonate?) to dark green and moderately chloritized, weakly biotitic, variably garnetiferous, from nil to 10-15% locally (up to 1cm in dia.). Foliation moderate at 50 to 60 deg. tca, locally strongly sheared. The felsic rocks are light grey to greyish-white, fine-grained to +/-medium-grained, granular like a fine wacke or tuff, strongly felsic, essentially all fine sugary quartz, with 2-3% chloritized mafic minerals (up to 1mm). These felsic rocks are strongly intermixed with the mafic rocks, defining pseudolaminations and bands, moderately

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sheared. Locally lighter greyish-white laminations may represent recrystallized chert, or possibly sheared quartz stringers.

84.5 - 85.4m: Garnetiferous mafic volcanic rock (flow?), fine-grained, moderately foliated at 55 deg. tca. Medium green, appears weakly bleached by carbonate and/or fine biotite. 2-10% garnets locally. Includes one 2cm wide quartz-epidote veinlets. Contains slightly more than trace of dusty disseminated pyrite.

85.4 - 85.9m: Fine-grained mafic volcanic, non-garnetiferous, medium-green, weakly fractured. Includes one 2cm wide greyish-white quartz veinlets mineralized by wispy to blebby pyrite. Also includes a black magnetite lamination, 1cm wide, accompanied by disseminated to stringer pyrite. Overall, 0.5% pyrite.

85.9 - 86.3m: Intermediate to Felsic Dyke/Tuff? Contacts sharp at 55 deg. tca. Medium to light grey, fine-grained but with discernible anhedral feldspars and quartz, intermediate to felsic, with less than 2-3% fine mafic minerals (chloritized). Weakly sericitic groundmass. Moderately foliated at 59 deg. tca. Includes greyish-white ghostly stringers and pseudoclasts locally, possibly representing sheared stringers. Non-mineralized.

86.3 - 87.5m: Predominantly similar to previous interval above (85.9 - 86.3m). Notably, a felsic interval between 86.2 to 86.4 m appears coarser, with more easily discernible mafic minerals (chloritized) within the groundmass, more suggestive of an intrusive origin. Angular mafic xenoliths, and a 20cm wide mafic volcanic sliver (as between 85.4 and 85.9) is also observed. Perhaps the coarser felsic phase is a dykelet intruded within a felsic tuff, although no clear contacts are defined. From 87.0 to 87.5m, the intermediate to felsic host appears to be laminated or banded, possibly relating to deformation, at 65 degrees tca. Trace of stringer pyrite.

87.5 101.7 (Strongly Mineralized/Iron-Formation)
Interval appears to consist of a moderately sheared mixed zone of mafic to possibly felsic tuff and/or clastic sediments, intermixed with chert. The interval is more felsic and

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sulphidized near the top of the intersection, gradually becoming predominantly mafic, garnetiferous, and accompanied by a general decrease in sulphide mineralization going downhole. The mafic and felsic rocks are as described in the main introduction. Shearing varies from 40 to 60 deg. tca. Mineralization consists mainly of pyrrhotite, lesser pyrite (ratio 90:10), and possible trace of sphalerite and chalcopyrite. The sulphide occur mainly as stringers and as semi-massive to massive bands, up to nearly 50cm wide, accompanied by minor magnetite disseminations and blebs. Massive sulphides, to <1% locally, overall 7 to 10%.

87.5 - 88.2m: Essentially massive sulphide band, with 90% pyrrhotite and 10% pyrite. Greyish-white felsic clasts/chert scattered, lapilli-size, angular, 3%.

88.2 - 91.2m: About 10-15% semi-massive sulphide bands. Host rock is 70% felsic, 30% mafic.

91.2 - 93.3m: Top of interval appears predominantly cherty, grading into clastic(?) sediments downhole, possibly a fine wacke. About 2% sulphides.

93.3 - 93.6m: Granodiorite to Feldspar Porphyry Dykelet. Contacts sharp and parallel to the foliation at 60 deg. tca. As previously described, very weakly foliated, non-mineralized.

93.6 - 95.3m: Chert-Magnetite Iron-Formation
Medium grey to greenish-grey, strongly magnetic interval. Pseudolaminated at 55 deg. tca. Predominantly mixed zone of tuffaceous clastic sediments, magnetite, and chert-rich bands. Weakly chloritic and garnetiferous, weakly silicified in proximity to the boudinaged greyish quartz stringers and veinlets, up to 4cm wide, 5-7%. About 1-2% pyrrhotite-pyrite.

95.3 - 95.7m: Granodiorite to Feldspar Porphyry Dykelet. As previously described. Non-mineralized.

95.7 - 96.0m: Same as from 93.6 to 95.3m.

96.0 - 96.8m: Clastic Sediment/Greywacke.

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HOLE No.: BG01-3

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FROM	TO	LITHOLOGICAL DESCRIPTION
		<p>Upper and lower contacts sharp, parallel to the main foliation. Medium-dark grey, fine granular, like a fine greywacke, appears intermediate in composition. Contains 1-2% stringer pyrrhotite.</p>
		<p>96.8 - 101.7m: Dark grey to dark green, fairly garnetiferous interval of mixed chloritized mafic tuff and clastic sediments, poorly laminated or banded. Greyish quartz stringers and veinlets, up to 2cm wide, <1%. Pyrrhotite-pyrite, about 1%, 2% locally.</p>
101.7	139.5	<p>(INTERBEDDED INTERMEDIATE TO FELSIC TUFFS)</p> <p>Upper contact abrupt. Medium to light grey interbedded intermediate to felsic tuffs, with very minor and narrow mafic tuff intervals. The intermediate to felsic tuffs are interbedded, as diffuse laminations and banding up to 1m wide, defined by various shades of grey and light brown. Composition appears to vary from intermediate, to locally more felsic or siliceous, including some cherty bands which appear to become more common in a downhole direction. Minor mafic laminations and bands are locally observed. All units are fine-grained, with fine and diffuse feldspar phenocrysts locally discernible, trace to <1%. All units are weakly garnetiferous, but their presence decreases to a trace beyond 123m. Some of the more felsic bands appear weakly to moderately sericitized, whereas the mafic intervals are more moderately chloritized and garnetiferous. The apparent bedding or pseudolaminations are moderately well defined at about 55 deg. tca. Weak sericitization is also fracture controlled, hairthin, at all angles. White quartz+/- calcite+/-epidote+/-hematite stringers and veinlets, up to 4cm wide, 2%. Pyrite-pyrrhotite (ratio 80:20) disseminations, stringers and wisps, occurs throughout the units, parallel to the foliation mostly, preferably within the mafic tuffs, about 0.5% or less, seemingly decreasing in abundance in a downhole direction. Overall, the rocks are becoming more felsic and less mineralized downhole.</p> <p>101.7 - 105.8m: Mineralization as described above, decreasing downhole from 1-0.5% to about 0.5%.</p> <p>105.1 - 105.4m: Over 80% bull white quartz veining, late.</p>

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FROM TO LITHOLOGICAL DESCRIPTION

non-mineralized.

105.8 - 123.0m: As described in the introduction.

110.1 - 110.7m: Granodiorite dyke, late, medium-grained.

113.1 - 113.4m: Granodiorite Dyke.

Contacts sharp, sheared at 35 to 45 degrees tca. Weak to moderately sheared, pinkish by weak pervasive hematization, accompanied by a sheared and barren quartz veinlet, 1cm wide. Blebby pyrite along the margins.

125.8 - 126.0m: Mafic Dykelet.

Contacts sharp parallel to the wallrock foliation at 63 deg. tca. Medium dark green, fine grained mafic dyke, weakly foliated, homogenous. Non-mineralized.

131.0 - 131.6m: Mafic Dykelet/Monzonitic.

Contacts sharp at 45 deg. tca. Medium-green, very similar to mafic dyke at 131.0 to 131.6, but medium to fine-grained, with hardly discernible mineralogy of chloritic mafic minerals, and pinkish anhedral feldspars, reflecting weak selective hematization, giving it a monzonitic texture. Weakly foliated. Non-mineralized.

131.6 - 139.5m: Strongly siliceous tuffs, intermediate to felsic, feldspar-phyric in places, locally strongly cherty, moderately foliated to sheared, with local brecciation (due to brittle nature of protolith), at 45 deg. tca. Sulphides, mainly pyrite, <0.1%, as dusty disseminations and occasional wisps.

139.5 161.0 (INTERMEDIATE TO MAFIC TUFFS)

Interval consists of intermediate tuffs, poorly laminated to bedded, possibly mafic in composition locally, displaying fine ghostly feldspar phenocrysts, up to 5% locally, hardly discernible, smeared parallel to the moderate foliation at approx. 60 deg. tca. Less than 1% fine garnets scattered throughout. Weakly chloritized. Quartz-calcite stringers, at all angles, <1%. Weak selective hematization of the feldspars locally, locally fracture-controlled. Pyrite occurs as dusty disseminations, minor seams and stringers parallel

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FROM TO LITHOLOGICAL DESCRIPTION

to the foliation, 0.1 to 0.2% overall. Interval is cross-cut by granodioritic to feldspar porphyritic dykes, and several monzonitic dykes whose contacts are very obscure, very similar to the host rock in composition, but more homogenous.

139.3 - 139.6m: Mafic tuff, moderately chloritic, sheared, with possible cherty fragments stretched parallel to the foliation at 50 to 55 deg. tca. Includes one quartz veinlet, 1cm wide. Pyrite disseminations and stringers, 2%.

139.6 141.2 (Granodiorite to Feldspar Porphyry Dyke)
Upper contact fractured, lower contact sharp at over 60 deg. tca. As previously described, granodioritic to feldspar porphyry dyke, non- to very weakly foliated, weakly hematized in places. Blocky mostly along the margins, with chlorite infilling the fractures. Non-mineralized.

141.2 - 142.0m: Similar to the sheared mafic interval from 139.3 to 139.5m. Strongly fractured, moderately chloritized. Includes a 20cm wide quartz vein, sheared and healed by chlorite, accompanied by 1% pyrite (within the veins and along their fractures). Over the interval, 0.2% pyrite.

142.0 144.8 (Monzonitic Dyke)
Medium greenish-grey, with a pinkish tinge (selective hematization), appears monzonitic in composition, with trace of feldspar phenocrysts locally. As previously described further uphole. Weakly blocky core, and appears to include a wallrock inclusion of mafic to intermediate tuff between 142.5 to 143.1m. Weakly foliated, weakly chloritized., but overall fairly homogenous. Contains more than a trace dusty pyrite disseminations.

144.8 148.2 (Intermediate to Felsic Feldspar Porphyry Dyke)
Contacts sharp, parallel to the foliation. Light pinkish grey, weakly hematized, consisting of 50% subhedral feldspar phenocrysts (1-2mm), contained within a fine and cloudy (saussuritized) groundmass of quartz and feldspars, with <3% mafic minerals. Includes perhaps 5% mafic wallrock slivers. Weakly blocky core.

148.2 - 150.0m: Predominantly mafic tuffaceous rocks, weakly epidotized, weakly hematized in places. Moderately

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION
		foliated at 55 deg. tca. Essentially non-mineralized.
150.0	150.2m	Feldspar Porphyry Dykelet. As previously described, with moderate pervasive hematization. Contacts sharp, but highly irregular.
150.2	152.0	(Monzonitic Dyke) Weakly to moderately foliated at about 60 deg. tca. As previously described, pinkish grey-green, very similar to the underlying rocks interpreted as tuffs, but more homogenous, and essentially non-mineralized. Does appear to contain garnets.
152.0	156.1m	Mafic to possibly intermediate tuffs, weakly chloritized, moderately foliated, weakly/poorly laminated, with up to 0.5% stringer pyrite locally, 0.1% overall. Very weakly garnetiferous.
156.1	159.7	(Monzonitic Dyke) As previously described, relatively homogenous but weak to moderately foliated, weakly hematized. Appears chilled and is weakly brecciated along the margin from 159.1 to 159.7m.
159.7	161.0m	Mafic to possibly intermediate tuffs, as previously described, with fine garnets locally discernible. Pseudolaminated at 55 deg. tca. Trace of disseminated pyrite.
159.7	159.8m	Ground core.
161.0m		End of Hole.

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
77.00	-45.00	
161.00	-44.00	

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DIAMOND DRILL LOG

PROPERTY: BYNG
 HOLE No.: BG01-4
 Collar Eastings: -300.00
 Collar Northings: 35.00
 Collar Elevation: 0.00

Date: 24/Jan/01-26/Jan/01
 Logged by: J. Samson
 Collar Inclination: -60.00
 Grid Bearing: 180.00
 Final Depth: 143.00 metres

FROM	TO	LITHOLOGICAL DESCRIPTION
0.0	7.0	(OVERBURDEN)
7.0	22.2	(MONZONITE TO DIORITE DYKE) Medium grey to pinkish-grey, fairly homogenous, but weakly foliated, at 35 to 45 deg. tca. Medium-grained (aver. 1mm), fairly equigranular to weakly feldspar porphyritic, consisting of over 70% white and pinkish (hematized) feldspars, about 15-20% mafic minerals (weakly chloritized), and 5-15(?) very fine quartz. Locally fractured, with epidote and hematite coatings. Less than 0.5% quartz and quartz+/-epidote+/-hematite stringers and veinlets. Relatively unaltered except for fracture-controlled hematization, locally pervasive along the margins. Trace of disseminated pyrite.
22.2	38.0	(PILLOWED MAFIC VOLCANIC) Medium green, fine-grained to very fine-grained locally, defining chilled pillow features, with strongly biotitic pillow selvages locally recognized. Moderately foliated at 35 deg. tca. Weak to moderately biotitic, locally as brownish bands to brownish stringers. Weakly chloritic. Quartz-calcite+/-hematite stringers and veinlets <1cm wide, <1%. Pyrite disseminations, 0.5% locally, trace overall. 23.6 - 23.8m: Dioritic Dykelet As previously described above. Sharp but wavy contacts, very oblique tca. 28.3 - 29.0m: Dioritic Dykelet Contacts sharp, at 90 to 20 deg. tca. As previously described, weakly feldspar porphyritic. Pyrite disseminations, 0.1%.
38.0	92.5	(PILLOWED TO MASSIVE MAFIC VOLCANIC)

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FROM TO LITHOLOGICAL DESCRIPTION

Contact arbitrarily selected. Interval is hosted by medium-green mafic volcanic, similar to overlying unit, but is becoming locally gabbroic and more massive downhole, although chilled pillow textures are still locally observed. Moderately foliated at 40 deg. tca, amphibolitized, weakly biotitic and chloritized. Less than 1% quartz+/-hematite stringers and veinlets. Trace of disseminated to wispy pyrite. Interval is cross-cut by abundant dykes and dykelets, generally monzonitic to dioritic as previously described.

38.0 39.4 (Monzonitic Dyke)
Medium green to grey dykes, with purplish tinge due to weak hematization of some of the feldspars. Very similar to the dykes previously described at the top of the hole, but generally with more mafic (>15%), more like the monzonites previously observed at the bottom of drill hole BG01-3. Weakly chloritized and weak selective hematization, weak to moderately foliated. Trace of disseminated pyrite.

40.3 41.5 (Monzonitic Dyke)
As described above.

43.6 - 44.0

44.2 - 44.6

47.0 - 47.8

48.4 - 48.9m: Monzonite Dykes

Medium greenish-grey monzonitic dykelets, weakly feldspar porphyritic, with up to 20% anhedral white feldspars, 1-2mm.

48.9 - 50.1m: Mafic volcanic is coarser-grained, gabbroic.

50.1 - 50.6

50.9 - 51.0m: Intermediate Feldspar Porphyry Dykelets
As described below.

51.2 52.9 (Intermediate Feldspar Porphyry Dykes)
Contacts either fractured or sharp and parallel to the foliation. Medium grey to greenish-grey, with about 5% large white feldspar phenocrysts up to 6mm, subhedral to euhedral, contained within a monzonitic groundmass as previously observed. Weakly foliated, weakly biotitic and

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FROM TO LITHOLOGICAL DESCRIPTION

chloritized, non-mineralized.

58.2 59.0 (Intermediate Dyke)
Contacts fractured. Medium-grey to light grey and bleached, fine-grained, homogenous, non- to very weakly foliated. Quartz+/-hematite stringers at various angles tca. Non-mineralized.

59.0 60.5 (Intermediate Dyke/Fault Zone)
Same host rock as described above, moderate to strongly fractured, with 75% core recovery. Iron-oxide and minor epidote coating the fractures.

61.3 - 61.5m: Intermediate to Felsic Feldspar Porphyry. Dykelet as described below.

63.5 65.7 (Intermediate to Felsic Feldspar Porphyry Dyke)
Contacts sharp at 25 to 45 deg. tca. Medium-grey, somewhat similar to previously described porphyry further uphole, but with more abundant phenocrysts, perhaps up to 50%, anhedral, ghostly, <1-2mm, contained within a finer groundmass, granodioritic, with less than 5% mafic minerals. Weakly foliated, with 1% quartz stringers, at all angles. Also contains one 10cm wide quartz-feldspar-hematite vein/pegmatite veinlet, barren.

65.7 - 74.5m: Massive to weakly pillowed mafic volcanic, as described in the introduction. Occasional brownish biotite stringers. Weakly blocky core. Weakly chloritic. Contains 0.1% disseminated to wispy pyrite.

74.5 - 74.8m: Intermediate to Felsic Feldspar Porphyry. Dykelet, with contacts sharp at 35 deg. tca. Pinkish to orange-grey, weakly hematized. As described above. Weakly foliated, non-mineralized. Includes one vuggy quartz veinlet, irregular, 1cm wide.

74.8 - 92.5m: Pillowed mafic volcanic, with biotite-rich pillow rims locally observed. Epidote stringers and bands, up to 10cm wide, minor but generally increasing downhole up to perhaps 10%, often along the margins to quartz veins. Overall weakly chloritic, weak to moderately biotized, with brownish stringers and bands well developed locally. Foliation moderate at 55 deg. tca. Quartz+/-epidote

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION
		+/-hematite stringers and veinlets up to 1cm wide. 1%. Essentially non-mineralized.
	83.0 84.2	(Fault Zone) Strongly fractured to ground core, with 90% recovery.
	84.2 - 84.4	
	87.8 - 87.9	
	88.6 - 88.7m	Intermediate to Felsic Feldspar Porphyry. Dykelets as previously described further uphole.
92.5	115.5	(INTERMEDIATE TUFF, LAPILLI TUFF, AND SEDIMENT?) Contact selected by fairly abrupt change in texture, sheared, accompanied by epidote banding. The unit appears to consist predominantly of an intermediate tuff, locally displaying lapilli-size clasts, possibly intermixed with minor clastic sediments (volcaniclastic sandstone/wacke), and minor chemical sediments (recrystallized chert). Medium greenish-grey, appears weakly bleached by the presence of fine biotite which gives the rock a brownish tinge. The rocks are very poorly bedded, but laminations are locally perceptible, defined by various shades of grey and greenish-grey. Fine ghostly feldspar crystals are commonly observed, anhedral to smeared, <1mm mostly, trace to 5% locally. Occasional white to light greyish felsic clasts are locally observed (ie. 98.6m), lapilli-size, generally <2cm long, weakly mafic-phyric (granitic?), flattened parallel to the foliation. Foliation is moderate at 50 deg. tca, locally rotating to subparallel tca. Overall, weak to moderately biotitic, with fine weakly chloritized amphiboles scattered throughout. Very weak patchy to stringer-like patterns appear to reflect weak pervasive sericitization in places. Garnets vary from trace to 1% locally. Quartz +/- hematite stringers, hairthin to rare veinlets up to 6cm wide, mainly parallel to the foliation, often sheared parallel to the main foliation. Weak local epidote banding. Trace of dusty disseminated pyrite. 106.4 - 106.5m: Felsic Dykelet(?). Light yellowish-green, very siliceous, felsic, leucocratic, with <1% mafic minerals. Contacts are sharp but irregular.

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DIAMOND DRILL LOG

PROPERTY: BYNG
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FROM TO LITHOLOGICAL DESCRIPTION

possibly a felsic bomb, but most likely a dykelet.

110.0 - 111.0m: Interval is gradually becoming more mafic downhole, weakly chloritized, with 1-2% garnets. Trace of dusty pyrite seams and disseminations. Foliation moderate at 40 deg. tca. Includes 2% greyish quartz veinlets (recrystallized chert?), sheared to dismembered, 1cm wide.

111.0 - 111.9m: Intermediate to Felsic Feldspar Porphyry. Dykelet as previously described, with 25-35% feldspar phenocrysts, within a granodioritic groundmass. Very weakly foliated, with contacts parallel to the main foliation.

111.9 - 112.2m: Fine-grained mafic sliver, non-mineralized.

112.2 113.6 (Intermediate to Felsic Feldspar Porphyry) As previously described dykelets, but bleached, light pinkish to orange-grey, weakly hematized. Blocky core.

113.6 - 115.5m: Mixed interval, mainly hosted by a monzonitic to dioritic dyke, enclosing several mafic volcanic slivers. Moderately foliated at about 50 deg. tca. Weak pervasive hematization. Non-mineralized.

115.5 - 116.2m: Intermediate to Felsic Dyke/Granodioritic. Contacts sharp at 25 deg. tca. Medium grey, medium-grained, non- to very weakly foliated. Non-mineralized.

116.2 131.2 (MINERALIZED TUFF, SEDIMENTS, AND IRON FORMATION)

Interval is dark green and moderately chloritic, to greenish-grey, to grey, and appears to consist predominantly of mafic tuff (intermediate composition locally), intermixed with possible clastic sediments and recrystallized chert. Moderate to strongly magnetic, with fine disseminated to stringer magnetite throughout. The rock is moderately foliated, sheared, with pseudo-laminations and apparent beds at 35 to 40 deg. tca, locally tightly folded subparallel tca. Core appears weak to moderately chloritized and biotitic, perhaps weakly silicified. Greyish-white and sugary stringer bands, up to 20cm wide, are probably in part derived from recrystallized chert, sheared to dismembered, 2-5%. White quartz+/-

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DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-4

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FROM TO LITHOLOGICAL DESCRIPTION

hematite veinlets up to 15cm wide, parallel to the foliation, essentially barren. Mineralization consists of pyrrhotite-pyrite (ratio 85:15), as disseminations, stringers, and occasional semi-massive stringer-bands up to 10cm wide, oriented parallel to the foliation. Overall, perhaps 1% sulphides. Weakly garnitiferous throughout, up to 1cm across. Overall, interval consists of intermixed mafic tuff, possible clastic sediments, and various iron-formations (oxide, sulphide, and silicate iron-formations).

116.2 - 121.2m: About 1-2% pyrrhotite-pyrite.

121.2 - 124.3m: Predominantly mafic. Moderately sheared/foliated at 40 deg. tca. Contains 0.1% sulphides.

123.4 - 123.6

124.2 - 124.3m: Monzonitic Dykelets.

124.3 - 125.3m: Sulphide mineralization, 8-10%, including a 10cm wide semi-massive band.

125.3 - 131.2m: Approximately 0.5% sulphides, generally decreasing downhole. Becoming predominantly mafic, sheared, possibly moving into a mafic volcanic flow. Foliation angles vary for 50 to subparallel tca.

131.2 143.0 (GRANODIORITE TO MONZONITE DYKE)

Contact sharp at 35 deg. tca. Medium-grey to greenish-grey, very weakly foliated, becoming more massive and coarser downhole. Medium-grained, equigranular, with over 15-20% mafic minerals locally (amphiboles and minor biotite), within a quartz-feldspar groundmass. Non-mineralized (trace pyrite), and unaltered.

133.8 - 133.9m: Mafic sliver, moderately foliated, with 2-3% sulphides.

143.0m: End of Hole.

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DIAMOND DRILL LOG

PROPERTY: BYNG
HOLE No.: BG01-4

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FROM TO LITHOLOGICAL DESCRIPTION

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
75.00	-59.00	
143.00	-57.00	

APPENDIX 2

Certificates of geochemical analyses

Byng Project



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

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Project: BYNG
 Comments: ATTN: RITA LECOURS CC: GERALD LECOURS

Page Number :1-B
 Total Pages :1
 Certificate Date: 01-MAR-2001
 Invoice No. : 10112105
 P.O. Number :
 Account : MYJ

CERTIFICATE OF ANALYSIS A0112105

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1096	205 226	130	< 1	0.01	188	70	182	0.17	< 2	< 1	4	0.01	< 10	< 10	6	< 10	1315
1097	205 226	210	< 1	0.06	118	310	122	0.14	< 2	< 1	6	0.07	< 10	< 10	16	< 10	1175
1098	205 226	225	< 1	0.08	18	480	36	0.01	< 2	1	11	0.11	< 10	< 10	26	< 10	140
1099	205 226	540	1	0.02	103	200	116	0.47	< 2	1	8	0.04	< 10	< 10	13	< 10	628
1101	205 226	1340	< 1	0.01	56	80	16	>5.00	< 2	< 1	8	0.03	< 10	< 10	14	< 10	132
1102	205 226	635	3	< 0.01	18	60	18	3.67	< 2	< 1	6	< 0.01	< 10	< 10	5	< 10	42
1103	205 226	545	< 1	0.03	749	620	18	0.22	< 2	1	24	0.10	< 10	< 10	23	< 10	68
1104	205 226	185	1	0.07	9	540	2	0.12	< 2	2	25	0.15	< 10	< 10	32	< 10	62
1105	205 226	330	< 1	0.07	27	610	< 2	0.14	< 2	17	11	0.30	< 10	< 10	257	< 10	70
1106	205 226	370	2	0.03	486	450	2	2.04	< 2	3	4	0.08	< 10	< 10	39	< 10	82
1107	205 226	245	5	0.05	33	220	2	1.00	< 2	3	7	0.07	< 10	< 10	29	< 10	78
1108	205 226	390	3	0.06	51	580	2	1.01	< 2	3	22	0.09	< 10	< 10	35	< 10	72
1109	205 226	310	1	< 0.01	51	80	12	>5.00	< 2	< 1	6	< 0.01	< 10	< 10	11	< 10	16
1110	205 226	1190	< 1	< 0.01	34	60	2	3.75	< 2	< 1	6	0.01	< 10	< 10	11	< 10	36
1111	205 226	1255	1	< 0.01	36	50	6	4.66	< 2	< 1	6	0.01	< 10	< 10	12	< 10	36
1112	205 226	810	< 1	< 0.01	36	40	2	4.65	< 2	< 1	7	0.01	< 10	< 10	9	< 10	24
1113	205 226	1050	< 1	0.01	30	40	2	4.20	< 2	< 1	6	< 0.01	< 10	< 10	11	< 10	18
1114	205 226	975	< 1	0.01	22	30	4	3.80	< 2	< 1	5	< 0.01	< 10	< 10	8	< 10	10
1115	205 226	785	3	< 0.01	10	20	< 2	1.93	< 2	< 1	5	< 0.01	< 10	< 10	2	< 10	< 2
1116	205 226	355	3	0.08	6	500	2	0.38	< 2	1	29	0.11	< 10	< 10	23	< 10	36
1117	205 226	885	3	0.01	14	50	2	2.79	< 2	< 1	6	0.01	< 10	< 10	7	< 10	< 2
1118	205 226	290	14	0.07	5	510	2	0.16	< 2	1	25	0.12	< 10	< 10	26	< 10	38
1119	205 226	1165	1	0.15	17	340	< 2	1.80	< 2	3	10	0.12	< 10	< 10	28	< 10	14
1120	205 226	1380	4	0.12	15	290	< 2	2.17	< 2	2	14	0.11	< 10	< 10	25	< 10	12
1121	205 226	950	3	0.11	9	380	< 2	0.41	< 2	3	9	0.15	< 10	< 10	34	< 10	20

CERTIFICATION: _____



ALS Chemex

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 Analytical Chemists * Geochemists * Registered Assayers
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Project: BYNG
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Page Number :1-A
 Total Pages :1
 Certificate Date: 01-MAR-2001
 Invoice No. :10112105
 P.O. Number :
 Account :MYJ

CERTIFICATE OF ANALYSIS A0112105

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
1096	205 226	< 5	1.2	0.44	< 2	< 10	< 10	< 0.5	6	0.10	2.5	13	242	149	1.07	< 10	< 1	< 0.01	< 10	0.56
1097	205 226	< 5	0.2	0.74	< 2	< 10	< 10	< 0.5	< 2	0.19	2.5	8	109	83	1.46	< 10	< 1	< 0.01	< 10	0.83
1098	205 226	< 5	< 0.2	0.82	< 2	< 10	< 10	< 0.5	< 2	0.28	< 0.5	5	68	11	1.46	< 10	< 1	0.03	10	0.72
1099	205 226	< 5	0.8	0.85	< 2	< 10	30	< 0.5	< 2	0.34	1.0	9	185	46	2.51	< 10	< 1	0.04	< 10	0.93
1101	205 226	< 5	1.6	0.79	6	< 10	10	1.0	18	0.59	< 0.5	18	23	96	>15.00	10	< 1	0.08	< 10	0.43
1102	205 226	< 5	0.6	0.15	2	< 10	20	0.5	6	0.19	< 0.5	5	58	28	11.55	< 10	< 1	0.02	< 10	0.16
1103	205 226	< 5	< 0.2	2.19	< 2	< 10	10	< 0.5	2	2.50	< 0.5	36	305	19	2.10	< 10	< 1	0.02	20	3.78
1104	205 226	< 5	< 0.2	1.13	< 2	< 10	170	< 0.5	2	0.43	< 0.5	6	58	14	1.93	< 10	< 1	0.45	10	0.56
1105	205 226	< 5	< 0.2	2.54	4	< 10	130	< 0.5	2	0.69	0.5	20	65	25	5.21	10	< 1	0.61	< 10	1.05
1106	205 226	< 5	0.2	2.21	< 2	< 10	10	< 0.5	< 2	0.39	< 0.5	51	344	70	5.65	< 10	< 1	0.06	< 10	2.35
1107	205 226	< 5	< 0.2	0.94	< 2	< 10	50	< 0.5	< 2	0.15	< 0.5	16	57	33	2.78	< 10	< 1	0.27	< 10	0.69
1108	205 226	< 5	0.2	1.29	< 2	< 10	40	< 0.5	< 2	0.43	< 0.5	17	79	35	3.07	< 10	< 1	0.22	10	0.84
1109	205 226	< 5	2.6	0.11	4	< 10	10	1.0	30	0.03	< 0.5	243	43	159	>15.00	10	< 1	0.02	< 10	0.05
1110	205 226	< 5	1.2	0.23	< 2	< 10	18	0.5	12	0.22	< 0.5	5	45	85	>15.00	< 10	< 1	0.09	< 10	0.18
1111	205 226	< 5	1.4	0.23	< 2	< 10	18	0.5	16	0.23	< 0.5	5	49	84	>15.00	< 10	< 1	0.10	< 10	0.18
1112	205 226	< 5	1.2	0.08	< 2	< 10	10	0.5	10	0.11	< 0.5	13	67	65	>15.00	< 10	< 1	0.05	< 10	0.10
1113	205 226	< 5	1.0	0.06	6	< 10	10	1.0	16	0.12	< 0.5	6	73	63	>15.00	< 10	< 1	0.04	< 10	0.11
1114	205 226	< 5	0.8	0.11	< 2	< 10	10	0.5	6	0.15	< 0.5	10	86	47	>15.00	< 10	< 1	0.05	< 10	0.13
1115	205 226	< 5	0.2	0.04	< 2	< 10	10	0.5	8	0.13	< 0.5	7	86	13	10.60	< 10	< 1	0.01	< 10	0.07
1116	205 226	< 5	< 0.2	0.85	< 2	< 10	50	< 0.5	2	0.35	< 0.5	4	65	1	2.24	< 10	< 1	0.26	10	0.42
1117	205 226	< 5	0.2	0.20	< 2	< 10	20	< 0.5	2	0.16	< 0.5	7	52	12	11.05	< 10	< 1	0.05	< 10	0.11
1118	205 226	< 5	< 0.2	0.83	< 2	< 10	40	< 0.5	4	0.37	< 0.5	4	53	< 1	1.98	< 10	< 1	0.29	10	0.40
1119	205 226	< 5	< 0.2	1.62	< 2	< 10	80	< 0.5	< 2	1.17	< 0.5	11	46	25	7.09	< 10	< 1	0.46	< 10	0.57
1120	205 226	< 5	0.2	1.60	< 2	< 10	80	< 0.5	4	1.04	< 0.5	11	35	21	8.32	< 10	< 1	0.49	< 10	0.56
1121	205 226	< 5	< 0.2	1.70	< 2	< 10	130	< 0.5	2	0.91	< 0.5	7	37	7	4.79	< 10	< 1	0.47	< 10	0.61

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
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To: LECOUCRS, RITA

P.O. BOX 1001
 HEARST, ON
 POL 1N0

Page Number :2-A
 Total Pages :2
 Certificate Date: 16-FEB-2001
 Invoice No. :10111484
 P.O. Number :
 Account :MYJ

Project : BYNG
 Comments: ATTN: RITA LECOUCRS CC: GERALD LECOUCRS

CERTIFICATE OF ANALYSIS A0111484

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
	FA+AA																				
1062	205	226	< 5	< 0.2	0.99	< 2	< 10	70	< 0.5	< 2	1.02	< 0.5	33	51	51	3.27	< 10	< 1	0.16	10	0.85
1063	205	226	< 5	0.2	1.23	< 2	< 10	120	< 0.5	< 2	0.96	< 0.5	39	69	69	3.43	< 10	< 1	0.35	< 10	1.16
1064	205	226	< 5	< 0.2	1.61	2	< 10	230	< 0.5	< 2	1.08	< 0.5	34	89	56	3.43	10	< 1	0.75	< 10	1.54
1065	205	226	< 5	< 0.2	1.25	< 2	< 10	140	< 0.5	< 2	1.04	< 0.5	22	81	48	2.08	< 10	< 1	0.46	10	1.15
1066	205	226	< 5	< 0.2	1.75	2	< 10	100	< 0.5	< 2	1.08	< 0.5	15	84	45	1.88	< 10	< 1	0.69	10	1.33
1067	205	226	< 5	< 0.2	2.62	2	< 10	120	< 0.5	< 2	1.67	< 0.5	30	95	26	4.13	10	< 1	0.82	< 10	1.31
1068	205	226	< 5	1.4	2.19	2	< 10	50	< 0.5	< 2	0.77	< 0.5	22	113	209	>15.00	10	< 1	1.05	< 10	1.49
1069	205	226	< 5	1.4	1.05	< 2	< 10	40	0.5	10	0.82	< 0.5	69	78	186	>15.00	10	< 1	0.36	< 10	0.59
1070	205	226	< 5	1.0	1.40	2	< 10	40	< 0.5	8	1.17	< 0.5	19	85	72	13.10	< 10	< 1	0.32	< 10	0.88
1071	205	226	70	0.2	2.30	< 2	< 10	90	< 0.5	< 2	2.19	< 0.5	27	111	22	7.80	10	< 1	0.22	< 10	1.18
1072	205	226	< 5	0.4	2.04	< 2	< 10	80	< 0.5	< 2	1.94	< 0.5	30	97	51	8.43	10	< 1	0.18	< 10	1.00
1073	205	226	< 5	< 0.2	2.21	2	< 10	110	< 0.5	< 2	1.97	< 0.5	30	104	46	5.46	10	< 1	0.21	< 10	1.10
1074	205	226	< 5	0.2	1.13	< 2	< 10	30	< 0.5	2	0.57	< 0.5	47	164	46	6.58	< 10	< 1	0.38	< 10	0.82
1075	205	226	< 5	< 0.2	1.66	< 2	< 10	140	< 0.5	< 2	1.05	< 0.5	23	119	44	3.90	10	< 1	0.63	10	1.15
1076	205	226	< 5	< 0.2	1.20	2	< 10	50	< 0.5	< 2	1.51	< 0.5	31	86	61	4.37	< 10	< 1	0.10	< 10	0.62
1077	205	226	< 5	< 0.2	1.25	2	< 10	130	< 0.5	< 2	1.13	< 0.5	27	83	82	3.29	< 10	< 1	0.36	10	0.94
1078	205	226	< 5	< 0.2	1.25	2	< 10	250	< 0.5	< 2	0.78	< 0.5	13	89	28	1.83	< 10	< 1	0.51	10	1.04
1079	205	226	< 5	< 0.2	0.90	< 2	< 10	40	< 0.5	< 2	0.97	< 0.5	7	83	44	1.08	< 10	< 1	0.16	10	0.69
1080	205	226	< 5	< 0.2	1.46	< 2	< 10	30	< 0.5	< 2	1.84	< 0.5	18	123	50	3.16	< 10	< 1	0.36	< 10	0.66
1081	205	226	< 5	< 0.2	1.39	< 2	< 10	20	< 0.5	< 2	2.12	< 0.5	23	117	31	4.26	< 10	< 1	0.36	< 10	0.74
1082	205	226	< 5	0.2	1.25	< 2	< 10	10	< 0.5	< 2	1.52	< 0.5	26	107	39	4.38	< 10	< 1	0.18	< 10	0.66
1083	205	226	< 5	0.2	1.30	< 2	< 10	20	< 0.5	< 2	1.51	< 0.5	21	126	34	3.73	< 10	< 1	0.14	< 10	0.79
1084	205	226	< 5	< 0.2	1.08	< 2	< 10	40	< 0.5	< 2	0.82	< 0.5	7	69	6	1.90	< 10	< 1	0.07	10	0.65
1085	205	226	< 5	< 0.2	1.36	< 2	< 10	10	< 0.5	< 2	3.49	< 0.5	10	93	23	2.52	< 10	< 1	0.10	< 10	0.71
1086	205	226	< 5	< 0.2	1.26	< 2	< 10	60	< 0.5	< 2	0.79	< 0.5	8	65	10	1.96	< 10	< 1	0.40	10	0.77

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
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To: LECOOURS, RITA

P.O. BOX 1001
 HEARST, ON
 P0L 1N0

Project: BYNG
 Comments: ATTN: RITA LECOOURS CC: GERALD LECOOURS

Page Number :2-B
 Total Pages :2
 Certificate Date: 15-FEB-2001
 Invoice No. :10111484
 P.O. Number :
 Account :MYJ

CERTIFICATE OF ANALYSIS A0111484

SAMPLE	PREP CODE	Ka ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1062	205 226	340	3	0.14	79	1080	< 2	0.84	2	5	12	0.16	< 10	< 10	55	< 10	56
1063	205 226	325	3	0.13	109	960	< 2	0.82	< 2	5	12	0.18	< 10	< 10	57	< 10	82
1064	205 226	425	4	0.16	92	930	< 2	0.57	2	7	19	0.23	< 10	< 10	75	< 10	72
1065	205 226	415	1	0.13	64	940	< 2	0.21	< 2	5	22	0.17	< 10	< 10	51	< 10	62
1066	205 226	335	2	0.17	50	1080	< 2	0.03	< 2	5	36	0.21	< 10	< 10	71	< 10	54
1067	205 226	790	6	0.07	65	700	< 2	1.14	< 2	8	21	0.23	< 10	< 10	75	< 10	314
1068	205 226	685	16	0.04	130	600	< 2	>5.00	< 2	13	10	0.22	< 10	< 10	76	10	116
1069	205 226	1440	11	0.08	129	400	4	>5.00	< 2	4	17	0.11	< 10	< 10	37	< 10	100
1070	205 226	1195	8	0.14	90	700	< 2	4.44	< 2	5	21	0.12	< 10	< 10	51	< 10	104
1071	205 226	1695	4	0.22	70	830	< 2	1.47	< 2	7	54	0.13	< 10	< 10	67	< 10	80
1072	205 226	1675	5	0.17	77	790	< 2	2.30	< 2	6	49	0.11	< 10	< 10	56	< 10	96
1073	205 226	1170	4	0.20	83	1030	< 2	1.19	< 2	7	48	0.15	< 10	< 10	65	< 10	140
1074	205 226	545	7	0.10	106	800	< 2	4.29	< 2	10	15	0.10	< 10	< 10	83	< 10	80
1075	205 226	665	3	0.20	61	920	< 2	1.01	< 2	8	26	0.19	< 10	< 10	72	< 10	64
1076	205 226	745	4	0.17	82	940	< 2	2.17	< 2	6	21	0.20	< 10	< 10	51	< 10	18
1077	205 226	390	3	0.15	68	1120	< 2	1.16	< 2	5	26	0.20	< 10	< 10	62	< 10	32
1078	205 226	240	16	0.14	40	870	< 2	0.12	< 2	4	24	0.17	< 10	< 10	60	< 10	38
1079	205 226	215	1	0.16	30	920	< 2	0.02	2	4	20	0.13	< 10	< 10	39	< 10	34
1080	205 226	730	11	0.10	65	820	< 2	0.83	2	5	25	0.22	< 10	< 10	55	< 10	44
1081	205 226	895	3	0.08	65	830	< 2	1.43	< 2	5	19	0.23	< 10	< 10	55	< 10	28
1082	205 226	620	3	0.10	72	910	< 2	1.68	2	5	17	0.22	< 10	< 10	58	< 10	38
1083	205 226	645	4	0.07	59	770	4	1.26	< 2	5	20	0.19	< 10	< 10	57	< 10	48
1084	205 226	415	1	0.11	16	610	4	0.11	2	2	26	0.12	< 10	< 10	38	< 10	70
1085	205 226	780	1	0.08	31	680	< 2	0.10	< 2	4	37	0.15	< 10	< 10	49	< 10	52
1086	205 226	300	1	0.11	15	650	< 2	0.05	< 2	3	33	0.17	< 10	< 10	42	< 10	66

CERTIFICATION: _____



ALS Chemex

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To: LECOORS, RITA

P.O. BOX 1001
 HEARST, ON
 POL 1N0

Page Number :1-A
 Total Pages :1
 Certificate Date: 19-FEB-200
 Invoice No. :10111835
 P.O. Number :
 Account :MYJ

Project: BYNG
 Comments: ATTN: RITA LECOORS CC: GERALD LECOORS

CERTIFICATE OF ANALYSIS A0111835

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
1028	205 226	< 5	< 0.2	1.15	< 2	10	40	0.5	4	0.91	< 0.5	8	71	50	2.26	< 10	< 1	0.18	30	0.71
1029	205 226	< 5	< 0.2	1.09	< 2	< 10	30	< 0.5	< 2	0.55	< 0.5	15	97	45	5.07	< 10	5	0.31	10	0.56
1030	205 226	< 5	< 0.2	0.85	< 2	10	60	< 0.5	< 2	0.75	< 0.5	8	66	20	1.82	< 10	< 1	0.19	20	0.60
1031	205 226	< 5	< 0.2	1.03	< 2	< 10	50	0.5	< 2	0.81	0.5	7	70	15	1.76	< 10	1	0.09	10	0.70
1032	205 226	< 5	< 0.2	0.95	< 2	< 10	40	< 0.5	< 2	0.44	< 0.5	10	86	25	2.69	< 10	1	0.27	10	0.49
1033	205 226	< 5	< 0.2	0.94	< 2	< 10	70	< 0.5	< 2	0.96	< 0.5	7	76	16	1.43	< 10	1	0.23	10	0.54
1034	205 226	< 5	< 0.2	1.08	< 2	< 10	30	0.5	< 2	0.52	< 0.5	12	79	39	4.73	< 10	3	0.25	10	0.48
1035	205 226	< 5	< 0.2	0.84	< 2	< 10	30	< 0.5	< 2	0.51	0.5	12	96	28	3.75	< 10	3	0.22	10	0.38
1036	205 226	< 5	< 0.2	1.23	< 2	< 10	30	< 0.5	< 2	0.65	< 0.5	12	68	42	3.28	< 10	1	0.24	10	0.59
1037	205 226	< 5	1.0	1.07	2	< 10	40	0.5	< 2	0.87	2.0	13	83	42	9.84	< 10	5	0.24	< 10	0.53
1038	205 226	< 5	< 0.2	1.40	< 2	< 10	80	< 0.5	< 2	0.92	1.5	11	83	38	10.60	< 10	6	0.56	< 10	0.52
1039	205 226	< 5	0.2	1.57	< 2	< 10	70	0.5	< 2	0.80	0.5	20	82	24	7.87	< 10	4	0.62	10	0.49
1040	205 226	< 5	< 0.2	1.42	< 2	< 10	70	< 0.5	4	0.73	0.5	13	59	39	7.66	< 10	4	0.58	10	0.56
1041	205 226	< 5	< 0.2	0.59	< 2	< 10	30	< 0.5	< 2	0.57	0.5	2	64	9	6.32	< 10	< 1	0.19	< 10	0.29
1042	205 226	< 5	< 0.2	1.65	< 2	< 10	190	< 0.5	< 2	1.15	< 0.5	11	69	8	3.44	< 10	< 1	0.67	60	0.96
1043	205 226	< 5	< 0.2	2.27	< 2	< 10	160	< 0.5	< 2	0.85	0.5	14	87	21	5.80	10	3	0.82	10	1.14
1044	205 226	< 5	< 0.2	1.93	< 2	< 10	190	< 0.5	< 2	1.29	0.5	9	70	25	5.45	< 10	1	0.95	10	0.86
1045	205 226	< 5	< 0.2	1.68	< 2	< 10	60	< 0.5	< 2	0.53	0.5	11	85	35	8.77	< 10	3	0.66	< 10	0.77
1046	205 226	< 5	0.2	0.25	< 2	< 10	< 10	< 0.5	< 2	0.57	0.5	7	93	26	7.19	< 10	3	0.05	< 10	0.16
1047	205 226	< 5	< 0.2	1.45	< 2	< 10	70	< 0.5	< 2	1.27	< 0.5	13	54	27	4.16	< 10	1	0.30	< 10	0.75
1048	205 226	< 5	< 0.2	1.39	< 2	< 10	50	< 0.5	< 2	1.35	< 0.5	10	44	23	3.92	< 10	1	0.17	< 10	0.68
1088	205 226	< 5	< 0.2	1.44	< 2	< 10	30	< 0.5	6	1.44	0.5	17	97	57	3.93	< 10	1	0.13	< 10	1.02
1089	205 226	< 5	< 0.2	1.24	< 2	< 10	10	< 0.5	2	1.93	1.5	16	102	81	6.94	< 10	3	0.11	< 10	0.78
1090	205 226	< 5	< 0.2	1.04	< 2	< 10	10	< 0.5	4	1.33	1.0	16	80	90	7.54	< 10	< 1	0.08	< 10	0.81
1091	205 226	< 5	< 0.2	1.55	< 2	< 10	10	< 0.5	< 2	1.45	< 0.5	14	68	34	2.98	< 10	< 1	0.11	< 10	1.05
1092	205 226	< 5	1.0	0.46	< 2	< 10	< 10	< 0.5	< 2	0.16	12.5	6	204	107	1.02	< 10	1	< 0.01	< 10	0.58
1093	205 226	< 5	1.2	0.66	2	< 10	< 10	< 0.5	4	3.03	10.0	19	273	113	1.36	< 10	1	< 0.01	< 10	0.92
1094	205 226	< 5	1.2	0.74	< 2	< 10	< 10	< 0.5	2	2.27	9.5	52	332	522	1.77	10	3	< 0.01	< 10	1.05
1095	205 226	< 5	2.4	0.85	< 2	< 10	< 10	< 0.5	4	0.39	12.5	35	353	490	1.87	10	1	< 0.01	< 10	1.32

CERTIFICATION: 



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To: LECOURS, RITA

P.O. BOX 1001
 HEARST, ON
 POL 1N0

Project: BYNG
 Comments: ATTN: RITA LECOURS CC: GERALD LECOURS

Page Number :1-8
 Total Pages :1
 Certificate Date: 19-FEB-2001
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CERTIFICATE OF ANALYSIS A0111835

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1028	205 226	360	< 1	0.09	10	610	10	0.26	< 2	3	42	0.17	< 10	< 10	38	< 10	70
1029	205 226	865	3	0.08	23	370	16	2.55	< 2	4	19	0.14	< 10	< 10	32	30	54
1030	205 226	405	< 1	0.11	8	630	8	0.22	< 2	2	50	0.16	< 10	< 10	34	< 10	48
1031	205 226	285	< 1	0.08	7	550	14	0.25	< 2	1	38	0.13	< 10	< 10	31	< 10	234
1032	205 226	470	1	0.07	16	340	20	0.82	< 2	4	15	0.13	< 10	< 10	33	< 10	120
1033	205 226	245	< 1	0.08	8	550	8	0.19	< 2	1	49	0.13	< 10	< 10	26	< 10	66
1034	205 226	615	2	0.06	20	330	16	2.01	< 2	4	16	0.13	< 10	< 10	32	20	78
1035	205 226	395	3	0.07	19	340	12	1.72	< 2	3	12	0.10	< 10	< 10	31	10	62
1036	205 226	525	5	0.07	20	430	12	1.12	< 2	5	11	0.13	< 10	< 10	40	10	62
1037	205 226	1450	5	0.05	17	280	54	3.58	< 2	2	23	0.07	< 10	< 10	18	40	310
1038	205 226	1320	3	0.09	16	360	18	3.87	< 2	3	11	0.14	< 10	< 10	27	40	36
1039	205 226	1305	5	0.09	11	340	16	3.13	< 2	3	17	0.16	< 10	< 10	30	30	34
1040	205 226	1305	2	0.09	13	280	12	1.74	2	3	17	0.15	< 10	< 10	26	20	26
1041	205 226	895	3	0.03	6	180	6	0.43	2	< 1	16	0.03	< 10	< 10	7	< 10	8
1042	205 226	615	1	0.08	19	980	12	0.17	< 2	4	52	0.19	< 10	< 10	59	< 10	50
1043	205 226	615	45	0.09	25	810	12	0.85	< 2	7	33	0.25	< 10	< 10	66	< 10	70
1044	205 226	440	7	0.06	18	470	10	0.87	< 2	4	30	0.16	< 10	< 10	39	10	42
1045	205 226	560	5	0.06	27	280	18	3.04	2	4	14	0.13	< 10	< 10	30	30	36
1046	205 226	620	8	0.03	13	50	8	1.85	< 2	< 1	21	0.01	< 10	< 10	3	20	6
1047	205 226	985	< 1	0.14	22	500	8	0.27	< 2	4	9	0.15	< 10	< 10	43	< 10	34
1048	205 226	1035	< 1	0.13	18	520	2	0.24	2	4	11	0.13	< 10	< 10	38	< 10	28
1088	205 226	365	< 1	0.08	34	870	8	0.40	2	4	26	0.14	< 10	< 10	49	< 10	52
1089	205 226	400	1	0.07	27	940	12	1.00	< 2	3	27	0.11	< 10	< 10	41	10	48
1090	205 226	345	1	0.10	28	960	8	0.41	6	6	12	0.12	< 10	< 10	53	< 10	50
1091	205 226	315	< 1	0.09	34	670	10	0.06	2	5	17	0.14	< 10	< 10	55	< 10	52
1092	205 226	160	< 1	0.01	38	50	1130	0.33	< 2	< 1	2	0.02	< 10	< 10	9	< 10	5510
1093	205 226	265	1	0.01	320	20	1400	0.32	< 2	< 1	14	0.02	< 10	< 10	9	< 10	4220
1094	205 226	265	< 1	0.01	659	90	298	0.60	< 2	1	14	0.03	< 10	< 10	12	< 10	4320
1095	205 226	270	< 1	0.01	627	60	1400	0.46	< 2	< 1	1	0.04	< 10	< 10	14	< 10	5090

[Handwritten signature]

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 5176 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LECOUCS, RITA

P.O. BOX 1001
 HEARST, ON
 POL 1N0

Project: BYNG
 Comments: ATTN: RITA LECOUCS CC: GERALD LECOUCS

Page Number :1-A
 Total Pages :2
 Certificate Date: 15-FEB-2001
 Invoice No. :10111484
 P.O. Number :
 Account :MYJ

CERTIFICATE OF ANALYSIS

A0111484

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
1001	205 226	< 5	< 0.2	1.44	< 2	< 10	20	< 0.5	< 2	1.11	< 0.5	14	109	38	1.96	10	< 1	0.08	10	1.16
1002	205 226	10	0.2	1.96	< 2	< 10	40	< 0.5	< 2	2.00	0.5	22	45	104	6.78	10	< 1	0.16	< 10	1.16
1003	205 226	< 5	< 0.2	2.07	< 2	< 10	10	< 0.5	< 2	2.72	0.5	22	44	40	4.50	10	< 1	0.18	< 10	1.07
1004	205 226	< 5	< 0.2	1.28	< 2	< 10	< 10	< 0.5	< 2	2.45	< 0.5	15	32	66	2.38	< 10	< 1	0.08	10	0.85
1005	205 226	< 5	< 0.2	1.87	< 2	< 10	10	< 0.5	< 2	2.75	< 0.5	22	156	110	4.16	10	< 1	0.16	< 10	0.98
1006	205 226	< 5	< 0.2	1.48	2	< 10	20	< 0.5	< 2	3.11	0.5	18	82	73	6.54	10	< 1	0.13	< 10	0.77
1007	205 226	< 5	< 0.2	2.13	2	< 10	10	< 0.5	< 2	2.63	< 0.5	22	41	76	3.70	10	< 1	0.12	< 10	1.11
1008	205 226	< 5	< 0.2	1.74	< 2	< 10	< 10	< 0.5	< 2	2.56	< 0.5	17	52	151	3.21	< 10	< 1	0.05	< 10	0.97
1009	205 226	< 5	< 0.2	2.00	< 2	< 10	20	< 0.5	2	1.03	< 0.5	17	58	41	4.96	10	< 1	0.04	< 10	2.12
1010	205 226	< 5	0.2	1.07	< 2	< 10	150	0.5	< 2	1.24	1.0	7	48	235	8.70	< 10	< 1	0.10	< 10	0.96
1011	205 226	< 5	0.2	1.54	2	< 10	110	0.5	< 2	0.78	0.5	14	103	311	9.87	10	< 1	0.07	< 10	1.61
1012	205 226	< 5	0.4	1.58	2	< 10	120	0.5	< 2	0.76	0.5	17	31	243	8.20	10	< 1	0.10	< 10	1.48
1013	205 226	< 5	< 0.2	1.07	< 2	< 10	< 10	< 0.5	< 2	1.93	< 0.5	66	683	37	4.60	< 10	< 1	0.01	< 10	2.83
1014	205 226	< 5	< 0.2	0.79	2	< 10	40	< 0.5	< 2	0.35	< 0.5	6	50	128	1.62	< 10	< 1	0.03	30	0.68
1015	205 226	5	1.6	2.22	< 2	< 10	110	< 0.5	< 2	0.66	2.5	25	228	296	5.06	10	< 1	0.11	< 10	2.61
1016	205 226	10	3.0	1.37	16	< 10	50	0.5	10	0.80	9.0	39	71	683	6.66	10	< 1	0.11	< 10	1.36
1017	205 226	< 5	8.6	1.18	< 2	< 10	< 10	< 0.5	18	0.42	< 0.5	8	42	50	2.32	10	< 1	0.05	10	0.98
1018	205 226	< 5	< 0.2	1.16	< 2	< 10	40	< 0.5	< 2	0.24	< 0.5	16	66	29	2.74	< 10	< 1	0.28	< 10	0.58
1019	205 226	< 5	< 0.2	1.15	2	< 10	40	< 0.5	2	0.30	< 0.5	13	82	27	2.36	< 10	< 1	0.14	10	0.50
1020	205 226	< 5	< 0.2	1.22	< 2	< 10	80	< 0.5	< 2	0.42	< 0.5	12	73	19	2.70	< 10	< 1	0.50	10	0.52
1021	205 226	< 5	< 0.2	1.06	2	< 10	40	< 0.5	< 2	0.51	< 0.5	10	72	21	2.50	< 10	< 1	0.32	10	0.42
1022	205 226	< 5	< 0.2	1.29	< 2	< 10	30	< 0.5	2	1.02	< 0.5	11	73	16	2.52	< 10	< 1	0.20	10	0.47
1023	205 226	< 5	0.4	0.99	< 2	< 10	30	0.5	< 2	1.82	< 0.5	8	67	48	5.57	< 10	< 1	0.18	10	0.39
1024	205 226	< 5	0.2	0.98	< 2	< 10	40	< 0.5	< 2	0.41	< 0.5	14	62	24	3.68	< 10	< 1	0.27	10	0.43
1025	205 226	< 5	< 0.2	1.12	< 2	< 10	70	< 0.5	< 2	0.81	< 0.5	6	57	5	1.93	< 10	< 1	0.24	10	0.56
1026	205 226	< 5	0.4	0.99	2	< 10	30	< 0.5	< 2	0.49	< 0.5	13	68	25	4.28	< 10	< 1	0.27	10	0.43
1027	205 226	< 5	< 0.2	0.91	< 2	< 10	80	< 0.5	< 2	0.65	< 0.5	5	60	5	1.42	< 10	< 1	0.33	10	0.54
1049	205 226	< 5	< 0.2	1.31	< 2	< 10	10	< 0.5	< 2	1.80	< 0.5	11	107	24	1.78	< 10	< 1	0.07	< 10	0.69
1050	205 226	25	< 0.2	0.45	< 2	< 10	10	1.0	6	0.48	< 0.5	4	87	22	0.79	< 10	< 1	0.14	< 10	0.12
1051-A	205 226	< 5	< 0.2	1.65	< 2	< 10	10	< 0.5	< 2	2.23	< 0.5	15	98	64	2.15	< 10	< 1	0.08	< 10	0.53
1051	205 226	< 5	0.4	1.06	< 2	< 10	30	< 0.5	2	1.00	< 0.5	23	56	196	3.94	< 10	< 1	0.22	< 10	0.43
1052	205 226	< 5	< 0.2	2.01	< 2	< 10	< 10	< 0.5	< 2	1.94	< 0.5	10	47	79	1.26	< 10	< 1	0.05	< 10	0.55
1053	205 226	< 5	< 0.2	2.26	2	< 10	< 10	< 0.5	< 2	2.44	< 0.5	18	50	89	2.75	< 10	< 1	0.08	< 10	0.71
1055	205 226	< 5	< 0.2	1.61	< 2	< 10	130	< 0.5	2	0.69	< 0.5	17	112	32	2.50	10	< 1	0.80	20	1.19
1056	205 226	25	< 0.2	0.68	< 2	< 10	70	0.5	106	0.31	< 0.5	4	84	16	1.14	< 10	< 1	0.39	10	0.29
1057	205 226	< 5	< 0.2	2.28	2	< 10	60	< 0.5	< 2	2.04	< 0.5	12	83	47	1.48	< 10	< 1	0.13	< 10	0.75
1058	205 226	< 5	0.8	2.00	< 2	< 10	60	1.5	10	1.76	0.5	65	104	210	9.81	10	< 1	0.32	< 10	0.57
1059	205 226	< 5	< 0.2	1.92	< 2	< 10	110	< 0.5	< 2	2.88	< 0.5	49	65	70	2.92	< 10	< 1	0.25	< 10	0.57
1060	205 226	< 5	< 0.2	2.13	< 2	< 10	50	< 0.5	< 2	3.04	< 0.5	42	87	62	6.21	< 10	< 1	0.08	< 10	0.87
1061	205 226	< 5	0.2	1.31	< 2	< 10	70	< 0.5	< 2	1.28	< 0.5	37	51	58	5.87	< 10	< 1	0.88	< 10	0.87



ALS Chemex

Aurora Laboratory Services Ltd.
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To: LECOURS, RITA

P.O. BOX 1001
 HEARST, ON
 POL 1N0

Project: BYNG
 Comments: ATTN: RITA LECOURS GC: GERALD LECOURS

Page Number :1-B
 Total Pages :2
 Certificate Date: 15-FEB-2001
 Invoice No. :1011484
 P.O. Number :
 Account :MYJ

CERTIFICATE OF ANALYSIS A0111484

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Mi ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1001	205 226	215	1	0.10	70	580	6	0.10	< 2	3	29	0.16	< 10	< 10	47	< 10	62
1002	205 226	570	3	0.21	23	460	< 2	0.55	< 2	10	13	0.18	< 10	< 10	116	< 10	140
1003	205 226	580	1	0.21	23	700	< 2	0.01	2	13	13	0.33	< 10	< 10	168	< 10	82
1004	205 226	315	< 1	0.14	36	650	< 2	0.03	< 2	5	14	0.21	< 10	< 10	64	< 10	38
1005	205 226	525	1	0.20	55	600	< 2	0.05	< 2	12	14	0.30	< 10	< 10	147	< 10	60
1006	205 226	425	1	0.15	35	710	< 2	0.16	< 2	7	22	0.19	< 10	< 10	93	< 10	68
1007	205 226	430	1	0.17	29	770	< 2	0.07	< 2	10	25	0.22	< 10	< 10	137	< 10	62
1008	205 226	380	4	0.14	19	530	2	0.06	< 2	9	17	0.20	< 10	< 10	106	< 10	108
1009	205 226	610	4	0.08	36	790	< 2	0.24	2	4	51	0.18	< 10	< 10	60	< 10	62
1010	205 226	695	2	0.09	24	470	2	0.20	< 2	1	30	0.05	< 10	< 10	22	< 10	38
1011	205 226	705	4	0.06	47	600	< 2	0.33	< 2	1	25	0.09	< 10	< 10	30	< 10	54
1012	205 226	700	4	0.10	25	510	< 2	1.03	< 2	3	62	0.08	< 10	< 10	33	< 10	40
1013	205 226	160	1	< 0.01	820	150	< 2	0.18	< 2	< 1	10	0.09	< 10	< 10	51	< 10	26
1014	205 226	295	1	0.16	17	710	2	0.04	< 2	3	18	0.13	< 10	< 10	33	< 10	30
1015	205 226	995	3	0.09	132	450	766	0.22	< 2	5	20	0.17	< 10	< 10	95	< 10	2170 1.1 m.
1016	205 226	890	8	0.08	50	650	3980	3.66	< 2	3	22	0.10	< 10	< 10	49	< 10	8710 0.9 m.
1017	205 226	330	30	0.13	28	420	738	0.16	2	7	13	0.19	< 10	< 10	60	< 10	312
1018	205 226	265	3	0.06	27	380	82	0.78	< 2	3	9	0.11	< 10	< 10	32	< 10	388
1019	205 226	190	3	0.06	27	370	8	0.56	2	2	10	0.10	< 10	< 10	27	< 10	98
1020	205 226	355	3	0.07	25	330	2	0.62	2	3	11	0.17	< 10	< 10	32	< 10	96
1021	205 226	355	3	0.08	19	330	8	0.66	< 2	3	14	0.15	< 10	< 10	28	< 10	92
1022	205 226	395	3	0.07	20	320	4	0.63	< 2	4	21	0.15	< 10	< 10	35	< 10	78
1023	205 226	560	6	0.05	26	300	8	2.60	4	3	17	0.11	< 10	< 10	22	< 10	58
1024	205 226	440	4	0.07	21	310	6	1.60	< 2	3	13	0.13	< 10	< 10	29	< 10	56
1025	205 226	320	< 1	0.09	7	520	6	0.20	2	2	43	0.14	< 10	< 10	28	< 10	76
1026	205 226	565	4	0.07	21	310	6	2.06	< 2	4	15	0.14	< 10	< 10	34	< 10	66
1027	205 226	225	1	0.10	5	510	2	0.08	< 2	1	59	0.15	< 10	< 10	28	< 10	68
1049	205 226	415	1	0.21	34	510	< 2	0.01	2	9	11	0.25	< 10	< 10	70	< 10	28
1050	205 226	470	147	0.11	10	40	48	0.17	2	5	3	0.04	< 10	40	12	< 10	24
1051-A	205 226	480	1	0.19	41	430	< 2	0.12	< 2	8	20	0.22	< 10	< 10	63	< 10	30
1051	205 226	310	5	0.08	29	530	< 2	1.91	2	5	13	0.17	< 10	< 10	47	< 10	88
1052	205 226	290	1	0.20	19	480	< 2	0.12	2	5	35	0.21	< 10	< 10	51	< 10	22
1053	205 226	645	3	0.20	30	440	6	0.52	< 2	7	30	0.20	< 10	< 10	63	< 10	100
1055	205 226	305	5	0.13	59	680	2	0.40	< 2	3	40	0.20	< 10	< 10	54	< 10	164
1056	205 226	395	69	0.12	7	260	24	0.21	< 2	3	21	0.09	< 10	< 10	17	< 10	58
1057	205 226	280	2	0.24	27	400	< 2	0.10	< 2	6	49	0.18	< 10	< 10	48	< 10	30
1058	205 226	750	9	0.12	99	410	6	4.15	< 2	5	47	0.22	< 10	< 10	60	< 10	244
1059	205 226	580	5	0.22	137	820	< 2	0.39	< 2	6	43	0.37	< 10	< 10	70	< 10	68
1060	205 226	905	1	0.23	119	830	< 2	0.42	< 2	8	32	0.35	< 10	< 10	87	< 10	82
1061	205 226	570	4	0.15	82	950	< 2	1.85	< 2	6	14	0.23	< 10	< 10	66	< 10	66

CERTIFICATION: _____

2. 221 25



ALS Chemex

Analysis Laboratory Services Ltd.
 Analytical Chemistry "Consultants" Analytical Services
 5175 Terminal Blvd., Mississauga, Ontario
 L4V 2S3
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To LECOURS, RITA

P.O. BOX 1031
 HEARST, ON
 PQL 1H0

Project Number 1-A
 Total Pages 1
 Certificate Date 02 APR 01
 Internal No. 10114181
 P.O. Number
 Analyst MYJ

Project
 Comments ATTN: RITA LECOURS CC: GERALD LECOURS

CERTIFICATE OF ANALYSIS A0114181

SAMPLE	P&P CODE	As ppb		Al	Al	B	Ca	Co	Cr	Ca	Co	Cr	Cu	Fe	Ca	Eg	K	La	Mg	
		IA-AA	ppb	g	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	g	ppm	ppm	g	ppm	g
1122	205 225	5	0.2	1.00	2	10	20	0.5	2	1.50	0.5	5	45	15	0.00	10	1	0.46	10	0.60
1123	205 225	5	0.2	1.46	2	10	130	0.5	2	0.61	0.5	7	30	26	1.1	10	1	0.62	10	0.60
1124	205 225	5	0.2	1.50	2	10	110	0.5	2	0.66	0.5	11	75	64	4.55	10	1	0.65	10	0.71
1125	205 225	5	0.2	1.71	2	10	120	0.5	2	0.89	0.5	7	50	16	3.55	10	1	0.70	10	0.67
1126	205 225	5	0.2	1.10	2	10	50	0.5	2	0.74	2.5	12	171	117	9.30	10	1	0.59	10	0.44
1129	205 225	5	0.2	0.40	2	10	10	0.5	2	0.51	0.5	10	121	72	7.74	10	1	0.07	10	0.22
1130	205 225	5	0.2	0.97	2	10	50	0.5	2	0.76	0.5	59	123	691	9.90	10	1	0.51	10	0.51
1131	205 225	20	0.2	1.13	2	10	50	0.5	2	0.77	0.5	11	150	39	9.60	10	1	0.51	10	0.44
1132	205 225	20	0.2	1.42	2	10	120	0.5	2	0.97	0.5	21	264	71	7.40	10	1	0.46	10	0.65
1133	205 225	5	0.2	1.66	2	10	30	0.5	2	0.90	0.5	55	197	117	9.45	10	1	0.29	10	0.62
1134	205 225	5	0.2	2.26	2	10	130	0.5	2	1.40	0.5	35	624	243	4.40	10	1	0.43	10	0.71
1135	205 225	5	0.2	1.89	2	10	70	0.5	2	1.63	0.5	22	115	129	0.6	10	1	0.22	10	0.67
1136	205 225	5	0.2	2.12	2	10	180	0.5	2	1.79	0.5	23	249	74	6.10	10	1	0.44	10	0.57
1137	205 225	5	0.2	1.45	2	10	30	0.5	2	1.14	0.5	12	111	154	0.20	10	1	0.19	10	0.69
1138	205 225	5	0.2	1.48	2	10	30	0.5	2	1.62	0.5	14	68	50	2.84	10	1	0.16	50	1.15

CERTIFICATION:

2. 221 25



ALS Chemex

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 Analytical Chemistry - General Testing - Environmental Analytical
 5175 Testbrook Blvd. Mississauga
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TO: LECOURS, RITA

P.O. BOX 1001
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 PUL 1H0

Project Number 1-8
 Total Pages 1
 Certificate Date 02 APR 01
 Issue Office 10114181
 P.O. Number
 Analyst MYJ

Requester ATN RITA LECOURS CC GERALD LECOURS

CERTIFICATE OF ANALYSIS A0114181

SAMPLE	PREP CODE	Mn	Mg	Na	Si	P	PD	S	SD	SC	SE	IL	II	U	V	W	Zn
		PPM	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM
1122	205 226	1270	4	0.11	13	570	6	1.47	2	3	15	0.12	10	10	27	10	10
1123	205 226	545	1	0.18	9	450	2	0.23	2	5	11	0.20	10	10	51	10	46
1124	205 226	705	1	0.18	16	510	4	1.08	2	5	17	0.21	10	10	54	10	52
1125	205 226	610	1	0.18	10	420	2	0.25	2	5	16	0.19	10	10	47	10	42
1128	205 226	355	6	0.07	64	480	8	1.92	2	6	13	0.13	10	10	45	10	742
1129	205 226	125	4	0.07	17	280	4	0.66	2	1	13	0.07	10	10	8	10	94
1130	205 226	465	1	0.09	105	310	8	1.41	2	3	9	0.07	10	10	25	10	392
1131	205 226	480	8	0.09	59	270	8	0.27	2	5	13	0.11	10	10	45	10	48
1132	205 226	440	6	0.11	79	650	6	0.61	2	6	21	0.16	10	10	66	10	64
1133	205 226	515	2	0.07	139	440	16	4.28	2	5	13	0.09	10	10	50	10	478
1138	205 226	480	1	0.13	176	430	4	0.78	2	1	22	0.18	10	10	93	10	64
1135	205 226	515	1	0.07	91	520	2	1.08	2	5	21	0.12	10	10	50	10	44
1136	205 226	460	10	0.07	77	1100	2	0.63	2	9	23	0.18	10	10	76	10	58
1137	205 226	440	4	0.05	116	390	6	1.55	2	7	17	0.14	10	10	74	10	28
1138	205 226	405	1	0.18	32	2240	6	0.18	2	5	43	0.18	10	10	61	10	48

CERTIFICATION

INCE 005

Date: 2001-OCT-22

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

BYNG PROPERTIES INC.
1301 PRINCE STREET
HEARST, ONTARIO
P0L 1N0 CANADA

Tel: (888) 415-9845
Fax: (877) 670-1555

Submission Number: 2.22125
Transaction Number(s): W0160.30758

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact LUCILLE JEROME by email at lucille.jerome@ndm.gov.on.ca or by phone at (705) 670-5858.

Yours Sincerely,



Ron Gashinski
Supervisor, Geoscience Assessment Office

Cc: Resident Geologist

Byng Properties Inc.
(Claim Holder)

Assessment File Library

Byng Properties Inc.
(Assessment Office)



MINING LAND TENURE MAP

Date / Time of Issue **Sep 24 2001** **08:39h Eastern**
TOWNSHIP / AREA **PLAN**
BYNG **G-2294**

ADMINISTRATIVE DISTRICTS / DIVISIONS
Mining Division **Porcupine**
Land Titles/Registry Division **ALGOMA**
Ministry of Natural Resources District **HEARST**

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession Lot
- Private Road
- Old Mine Shaft
- Contour - 50m
- Shade
- Water Headings
- Roads
- Rail
- Trail
- Natural Gas Pipeline
- Hydro Line
- Communication Line
- Wooded Area
- Municipal, Federal, Provincial, and Other Control

LAND TENURE

- 1100000 Pattern**
 - Surface and Mining Rights
 - Surface Rights Only
 - Mining Rights Only
- 1200000 Pattern**
 - Surface and Mining Rights
 - Surface Rights Only
 - Mining Rights Only
- License of Occupation**
 - Exclusive License
 - Surface and Mining Rights
 - Surface Rights Only
 - Mining Rights Only
- Land Use Plans**
 - Open Pit
 - Water Power Lease Application
- 1200000 Mining Claim**

LAND TENURE WITHDRAWALS

- 1200000** Areas Withdrawn from Exploration and Withdrawal System
 - W/S Surface and Mining Rights Withdrawal
 - W/S Surface Rights Only Withdrawal
 - W/S Mining Rights Only Withdrawal
 - W/S Surface and Mining Rights Withdrawal or in Council Withdrawal Terms
 - W/S Surface and Mining Rights Withdrawal
 - W/S Surface Rights Only Withdrawal
 - W/S Mining Rights Only Withdrawal

IMPORTANT NOTICES

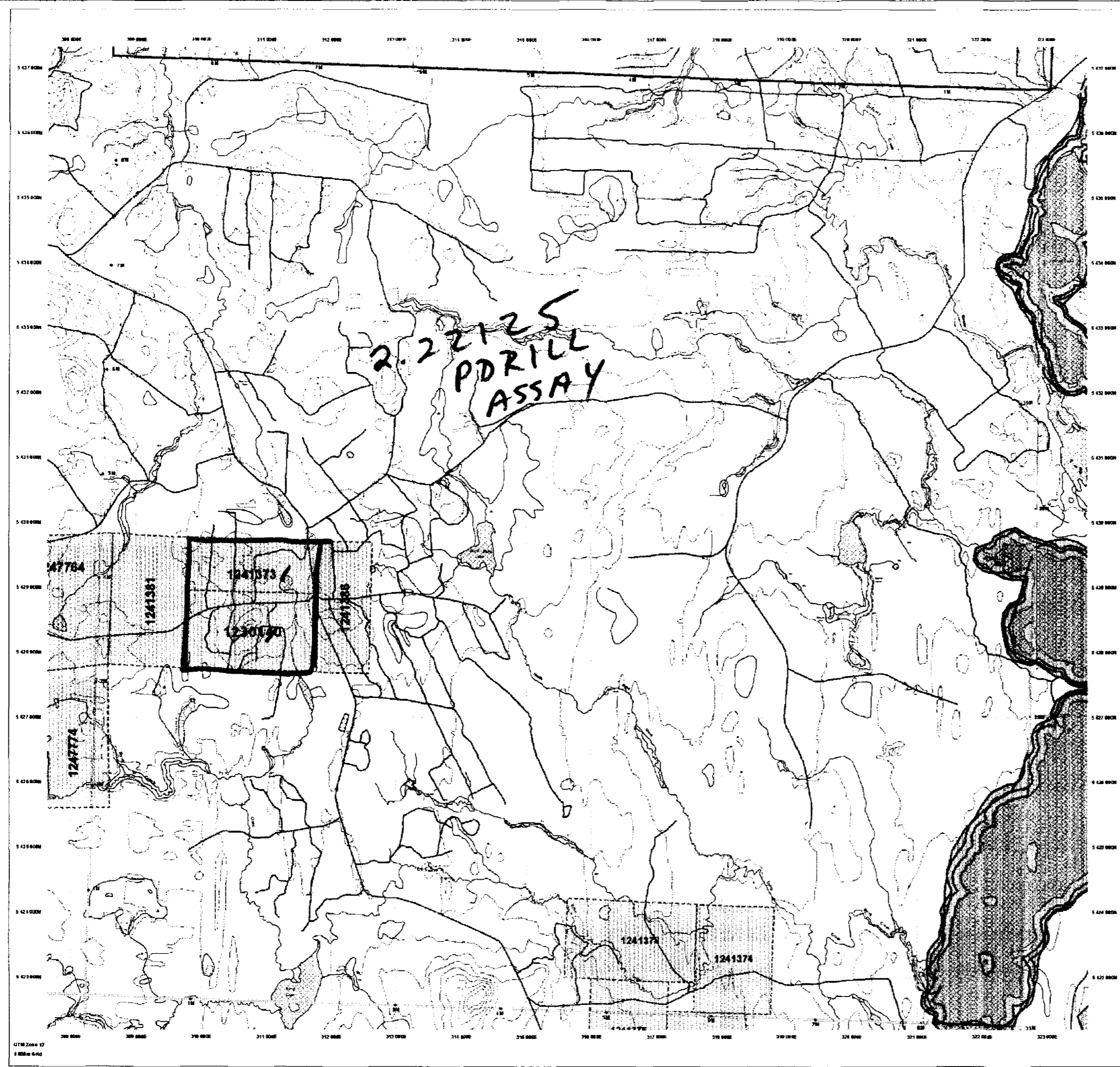


LAND TENURE WITHDRAWAL DESCRIPTIONS

Location	Type	Date	Description
2494	Water	Jul 1 2001	PROPOSED BRUSHBAH PARK BOUNDARY EXPANSION NOTICE RECEIVED JULY 4, 2001
2495	Water	Jul 1 2001	PROPOSED BRUSHBAH PARK BOUNDARY EXPANSION NOTICE RECEIVED JULY 4, 2001
2496	Water	Jul 1 2001	NEW BRUSHBAH BOUNDARY POST W/LOGGERS AREA WITHDRAWAL FROM STAMBO
2472	Water	Jul 1 2001	PROPOSED BRUSHBAH PARK BOUNDARY EXPANSION NOTICE RECEIVED JULY 4, 2001
2474	Water	Jul 1 2001	40FT W/475 OCT 22/76 S/LAM, OTHER SIDE OF BRUSHBAH RIVER, SHORES OF BRUSHBAH & OSTER LAKES
2506	Water	Jul 1 2001	PROPOSED BRUSHBAH PARK BOUNDARY EXPANSION NOTICE RECEIVED JULY 4, 2001
W-11, P15429	Water	May 17 1999	SEC 25 W/1175429 OCT 1997 MAY 17 1999
W-6476	Water	Jul 1 1999	40FT W/6476 OCT 22/76 S/LAM, OTHER SIDE OF BRUSHBAH RIVER, SHORES OF BRUSHBAH & OSTER LAKES
W-6475	Water	Jul 1 1999	40FT W/6475 OCT 22/76 S/LAM, OTHER SIDE OF BRUSHBAH RIVER, SHORES OF BRUSHBAH & OSTER LAKES
W-6474	Water	Jul 1 1999	SEC 42-4370 W/6474 OCT 22/76 S/LAM, SEC 100
W-2-800	Water	Jul 25 1999	SEC 35 W/2-800 W/2-800 M/S 1999
1923	Water	Jul 1 2001	PROPOSED BRUSHBAH PARK BOUNDARY EXPANSION NOTICE RECEIVED JULY 4, 2001
2141	Water	Jul 1 2001	9-10/78 SHAMM 19299

IMPORTANT NOTICES

Areas under which surface, regulatory, or other interests are affected by this map are shown in shaded areas. The shaded areas are shown in shaded areas. The shaded areas are shown in shaded areas.



General Information and Limitations

This map is a planimetric map and does not show the vertical curvature of the earth's surface. It is not intended for navigation or for use in determining the exact location of any point on the earth's surface. The information shown is derived from digital data available in the Provincial Mining Recorder's Office at the time of preparation from the Ministry of Northern Development and Mines and is not guaranteed.

Contact Information:
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Ministry of Northern Development and Mines
923 Ramsey Lake Road
Sudbury, ON P3B 5K9
Tel: 1 (800) 456-9999
Tel: 1 (877) 978-3444
Fax: 1 (877) 978-3444
Home Page: www.gov.on.ca/mndm/mines/MSD/SudburyPage.asp

This map may not show all registered claims. It is not intended to be used as a legal document. The information shown is derived from digital data available in the Provincial Mining Recorder's Office at the time of preparation from the Ministry of Northern Development and Mines and is not guaranteed.

