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**Diamond Drilling Report
on the
Swayze Property
of
Black Gregor Explorations Ltd.
and
Carlson Mines Ltd.**

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June, 1989



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Table of Contents

	<u>Page No.</u>
Summary	i.
Introduction	1
Location and Access	1
Property Description	1
Previous Work	1
Regional Geology	5
Geology of the Agaura Showing	7
Diamond Drilling Mechanics	11
Assaying	11
1989 Drill Program Results	12
Conclusions	19
Recommendations	20
References Cited	21

Appendix

Assay Certificates	19
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Figures

Location Map	2
Property Claim Map	3

Summary

During the month of February, 1989 a diamond drilling program was carried out by Black Gregor Explorations Ltd. on the Carlson Mines Ltd.-Black Gregor Explorations Ltd. joint venture Ridley Lake-Swayze Area property. A total of 13 holes, 8,106 feet, of BQ size drilling was completed.

The general stratigraphic sequence, in the area that was drill tested, consists of a lower mafic pyroclastic unit in the north which is conformable overlain by approximately 300 feet of massive mafic flows which host auriferous shear zones, overlain by an 800 foot thick series of highly altered and deformed felsic pyroclastics. A quartz feldspar porphyritic intrusion cuts the middle mafic flow at its upper contact.

Several geologic features appear to be significant in defining areas of potential gold mineralization:

- i) Areas with shear zone development
- ii) Areas of intense carbonatization and the presence of pyrite mineralization
- iii. Spatial association of felsic intrusives of alkaline composition.

A follow-up program has been recommended to further evaluate the mineral potential of this property.

Introduction

This report summarizes the diamond drilling and assay results for the winter program conducted by Carlson Mines Ltd. and Black Gregor Explorations Ltd. on their 179 claim property in the Swayze area of Ontario. The drilling program consisted of thirteen (13) BQ size holes totalling 8,106 feet (2,471 meters), and was carried out during the month of February, 1989. The drilling was designed to test a mineralized shear structure known as the Agaura prospect. Previous geological mapping and sampling combined with a stripping and trenching program carried out in 1985 was sufficiently encouraging to warrant drill testing of the surface gold showings.

Location and Access

The Carlson/Black Gregor property is located in Rollo and Raney Townships, Porcupine Mining Division, or more specifically 26 miles (40 km.) south-southwest of the town of Foleyet and approximately 75 miles (120 km.) west-southwest of the city of Timmins, Ontario (Fig. 1).

In the past, access to the property has been by float equipped aircraft landing on Ridley Lake. For a more efficient drill operation, access during the winter program was by means of a logging road off of Highway 17 that came to within 3 miles (5 km.) of the drilling area. From that point, a winter bush road was constructed prior to the drilling program.

Property Description

The property consists of 179 contiguous, unpatented mining claims located in Rollo and Raney Townships, Porcupine Mining Division, District of Cochrane, in Northeastern Ontario (Fig. 2). At the time of this report, all the claims were in good standing with no further work required until January 28, 1990.

Previous Work

Two gold showings exist on the Carlson/Black Gregor property. The showings are known as the Cyril Knight and Agaura prospects. During 1932, the two showings were controlled by two separate mining companies; the Cyril Knight Prospecting Company Limited and the Agaura Exploration Company Ltd.

The Cyril Knight prospect was trenched and in 1932 described as a gold bearing quartz vein hosted by schisted andesite lavas with an indicated length of approximately 800 feet striking N65°E and dipping 80°SE. The vein was exposed in a trench for 430 feet, with a maximum width of 10 feet and pinched out sharply to the west and narrowed to a series of stringers to the east. The quartz was described to be of the white glassy variety and was highly fractured in a direction parallel to the strike of the vein. The vein reportedly carried a small amount of pyrite and minor native gold (Rickaby 1935).

Previous Carlson geologists interpreted this zone to be a cherty exhalative horizon within a series of schisted, carbonatized, mafic volcanics (Filo, 1983). No drilling was carried out on this zone during the recent drill program.

The Agaura prospect was also trenched during the 1930's and was described as consisting of two similar-striking zones of gold mineralization hosted in quartz-pyrite veins. The "south" zone contained three quartz-pyrite-ankerite +/- Au veins cutting arkosic rock. The centre vein, which was the largest, had a maximum width of 13 inches and a length of approximately 80 feet. One isolated assay reported 0.7 oz/ton Au, over 8 inches. Approximately 500 feet north, a highly schistose zone up to 12 feet in width with coarse-grained pyrite and lenses of quartz was located within a greenstone band. Only low gold values were obtained from this zone, which was traced for 500 feet on a strike of N80°E. Approximately 50 feet south and parallel to the sheared zone was a rusty, carbonatized quartz feldspar porphyry dike up to 15 feet wide (Rickaby 1935).

No further work was done on the properties until 1982 when Carlson Mines Ltd. staked a group of 20 claims covering both showings. The property was inspected, for Carlson by Phendler (1982) who reported several anomalous Au values obtained from

the 1932/33 trench which exposed the northern volcanic-hosted carbonatized chlorite-pyrite-quartz vein shear zone.

At the same time, Newmont Exploration of Canada Ltd. visited the property and collected several samples which generally confirmed Phendler's values. Both showings were IP tested and results indicated that a dipole-dipole array could be used to trace the known mineralized zones.

During the summer of 1983, a systematic geological and geophysical survey was carried out over a 20 claim area of the property. The results of the geological mapping are presented in a report by Filo (1983) which includes a 1"-200' scale map.

Geophysical work included a magnetometer survey at 25 ft., 50 ft. and 100 ft. stations; a VLF-EM survey at 100 ft. stations and a time-domain IP survey using a dipole-dipole array with $a = 50'$. Results indicated that both showings displayed coincident magnetometer and IP anomalies of approximately 3x and 4x background respectively.

A major IP anomaly was outlined immediately south of the Agaura showing corresponding to a strong VLF-EM conductor; in addition to other significant, isolated IP and VLF-EM anomalies. Magnetics generally appeared to reflect the distribution of massive mafic volcanic flows containing up to 5% magnetite and outlined a probable diabase dike (Hill, 1986).

During the summer of 1985, a stripping, blasting and systematic sampling program was carried out in the area of the Agaura showing. Results from this program are presented in a report by Hill (1986). Hill distinguished several significant units within the stripped area and his results are included with the present data in this report.

Regional Geology

The Carlson/Black Gregor property is underlain by part of a major sequence of early Precambrian volcanics and sediments referred to as the Swayze volcanic complex (Goodwin and Ridler, 1970) or the Swayze-Deloro metavolcanic-metasedimentary belt (Thurston et al., 1977).

The Swayze volcanic complex is an E-trending belt composed, from the margins inward, of mafic metavolcanics succeeded by metasediments with several centres of felsic volcanism along its length. To the north, the Deloro volcanic complex underlying Horwood Lake and Reeves-Penhorwood Townships consists predominantly of mafic metavolcanics with only minor metasediments. Together the two complexes form the Swayze Deloro belt (Thurston et al., 1977 from Hill, 1986).

Mapping of the Swayze complex by Rickaby (1934) defined a "basement" greenstone assemblage of mafic to felsic flows and pyroclastics overlain by younger, essentially sedimentary but also felsic volcanic rocks known as the Ridout and Swayze series. Donovan (1965, 1968) defined a more continuous sequence of cyclical mafic-felsic volcanism with intermixed volcanic sedimentation south of Rollo Township. Age relationships among mafic metavolcanics, felsic metavolcanics and metasediments were found to be variable (Hill, 1986).

Thurston et al. (1977) summarized the lithologic descriptions of the Swayze-Deloro belt rocks. Mafic to intermediate metavolcanics are predominant throughout the area and include massive, pillowed, foliated, fragmental (breccia plus tuffs) and porphyritic types. Intermediate to felsic metavolcanic rocks are less common. A major linear zone of massive to porphyritic dacite with associated fragmentals and epiclastic sediments extends through the central portion of the Swayze complex just south of Ridley Lake. Elsewhere, felsic metavolcanic flows and tuffs form relatively thin bands within intermediate to mafic metavolcanics. All volcanics have been metamorphosed largely under greenschist conditions and locally under almandine-amphibolite conditions (Hill, 1986).

The metasediments, in order of importance, include greywacke, arkose, conglomerates, quartzite and argillite. Also, intercalated with mafic metavolcanic are thin bands of iron formation or ferruginous metasediments of silicate carbonate or sulphide association. Much of the rock originally mapped as sediments by Rickaby (1935) has been re-interpreted as felsic pyroclastic material. It is apparent that metasediments make

up no more than 10% of exposed Swayze-Deloro belt rocks. The most extensive band of metasediments (originally named Ridout series) extends through the southern portion of the Swayze belt and, together with a smaller band in Halcrow and Denyes Townships (previously called the Swayze series) are referred to collectively as the Ridout metasediments (Hill, 1986).

The Swayze-Deloro metavolcanic-metasedimentary belt has been tightly folded into a series of synforms and antiforms which, due to the lack of geological and structural control, are not well defined. Bell (1984) implied that a major east-west synclinal structure south of Rollo Township was overturned with a north-dipping axial plane. Stratigraphic top indicators on the north limb of the syncline faced south, but beds dipped steeply north. Mapping carried out in 1985 on the Carlson/Black Gregor property appears to confirm his interpretation (Hill, 1986).

The most common felsic intrusives have been emplaced as dikes and sills of quartz-feldspar porphyry with occasional granitoid stocks. Mafic to ultramafic rocks have intruded the metasedimentary-metavolcanic sequence as diorite to gabbroic sills and stocks of early Precambrian age and, more recently, as three distinct diabase dike sets (Hill, 1986).

Geology of the Agaura Showing

The following section has been taken from a report by Hill for Carlson Mines Ltd. and Ridley Lake Minerals Corp., Detailed Geological Mapping and Sampling of the Agaura Showing, Ridley Lake Property (1986).

The general stratigraphic sequence in the area consists of a lower mafic pyroclastic unit (in the north) conformably overlain by approximately 300 feet of massive, rarely pillowed mafic flows, which host the chlorite + pyrite + quartz +/- gold shear zones; overlain by an 800 foot thick series of highly

altered and deformed felsic pyroclastics which are host to apparently auriferous quartz veins (the "south zone" of Rickaby, 1935). A quartz feldspar porphyritic intrusion cuts the middle mafic flow unit at its upper contact and appears to have been intruded as a slightly discordant sill-like body. Uppermost in the section, south of the area of defined mineralization, is a thick sequence of intermediate to felsic flows cut by a narrow diabase dyke. Detailed lithologic descriptions of the rock units within the area of mineralization, beginning with the lowermost mafic pyroclastic formation, follow.

Mafic Pyroclastics

The unit includes both fine grained tuffaceous and coarse fragmental members of basaltic composition. Tuffs tend to be thinly laminated (1/2" - 1.5" thick layers) showing apparent preservation of original sedimentary features. Coarser facies contain stretched fragments of lapilli-sized volcanics usually of basaltic composition and therefore difficult to distinguish from the matrix except on weathered surfaces. High degrees of deformation are apparent from the extreme stretching of fragments, displaying length:width ratios of 20:1 or greater. At the north end of the stripped area, mafic tuffs are interlayered with a felsic pyroclastic member in a zone intruded by narrow dioritic sills. Higher in the section and overlying the mafic flow unit, a very fine grained, highly foliated tuff of mafic to intermediate composition was delineated. This unit is unique in that it contains trace disseminated pyrite and is cut by a microfracture network of carbonate stringers implying passage of a hydrothermal fluid or volatile mineralization phase. Minor evidence of compositional layering was also observed.

Chlorite + pyrite shears are absent in the mafic pyroclastic units, at least in the area examined. Alteration is restricted to pervasive chloritization of mafic minerals associated with regional metamorphic facies. Deformation patterns, specifically high stretching ratios, suggest that a more localized major compressive event, perhaps related to intrusive activity, affected the area.

Massive to Foliated Mafic Flows

As host to gold mineralization in the area, the mafic flows represent an important lithologic unit. The massive phase consists of occasionally porphyritic but typically fine grained chloritic, magnetite-bearing basalts with plagioclase phenocrysts up to 1/4" in size. Trace to 1% fine-grained disseminated pyrite is present throughout much of the rock. Poorly preserved pillows were rarely observed and appeared to indicate an upright, south-facing sequence.

Ductile deformation and associated mobilization of hydrothermal fluids, led to the development of chlorite + pyrite + carbonate +/- gold shear zones which cut the massive flows at oblique angles to both regional foliation and apparent bedding. Within most of the shear zones, central quartz veins/zones can be traced along strike for approximately 100 feet. Shear zones range in width from greater than 15 feet to 1.5 feet or less, but generally average 3 feet. Some shears may be completely barren of hydrothermal mineralization/alteration products developing simply as chlorite schist "lenses". It is therefore apparent that ductile deformation and shear zone formation occurred prior to, and acted as conduits for, the introduction of hydrothermal fluids.

Felsic to Intermediate Tuffs

The uppermost unit of the volcanic sequence exposed in the stripped areas consists of a very fine grained to aphanitic, light greenish grey, highly foliated felsic to intermediate tuff; metamorphosed to a quartz-epidote-talc-sericite schist. Occasional phenocrysts of plagioclase are present but quartz is more common. The unit is at least 800 feet thick. Previous workers in the area have interpreted the felsic tuffs as being of detrital sedimentary origin (greywackes to quartzites) however, the most recent mapping suggests a volcanoclastic origin for these rocks.

Pervasive carbonate alteration of the unit has led to the development of a dense network of calcite (?) stringers ≤ 1 mm. in width. At the eastern end of the stripped area, the felsic tuffs are cut by a wide, barren quartz vein, 1.5 ft. thick, striking approximately 070° azimuth. The vein may be part of a system described by Rickaby (1935) as the "south zone" of the Agaura showing and may therefore be continuous to the east for at least 1000 feet.

Quartz Feldspar Porphyry

Emplaced as a sill-like body along the contact between massive mafic flows and overlying tuffs, the intrusive has been described as a megacrystic quartz, K-feldspar, plagioclase-rich rock bearing no mafic minerals. The feldspars generally form coarse grained euhedra surrounding isolated very coarse grained quartz phenocrysts. Medium to coarse grained pyrite euhedra are disseminated throughout the intrusive averaging 1% overall but reaching 3% in places. Hematitic and carbonatitic alteration is pervasive with some saussuritic alteration of plagioclase. Quartz veins/stringers 1/4" - 1/2" wide pervasively cut the intrusive. The contact is represented by a zone of intense silicification, hematization and shearing of the host volcanics 6-15 feet from the intrusive contact. Pyrite also appears to increase in the contact

zone reaching concentrations of up to 10% along foliation planes. It is therefore apparent that high degrees of structural deformation associated with a silica + Fe hydrothermal phase characterized emplacement of the quartz-feldspar porphyry. It is also suggested that gold may have been mobilized during the same event.

Diamond Drilling Mechanics

Drilling operations were carried out by Frontier Diamond Drilling Ltd. of Timmins, Ontario. A total of 8,106 feet of BQ drilling was completed in 13 holes. Generally, no major problems were encountered and all holes, with the exception of S89-2, were completed to their desired depths. Some caving in S89-2 caused problems and the hole had to be stopped before reaching the proper depth.

Core recovery was, in general, excellent. Recovery was poor in isolated instances where the rocks were heavily fractured and sheared, although core loss was minimal.

All drilling was carried out with a J.K.S. Boyles 25 machine supported by a D-6 tractor. Drilling operations were completed in the period February 1 to February 28, 1989. The drilling program was managed by D.T.H. Exploration Services Inc., of Timmins, on behalf of Carlson Mines Ltd. and Black Gregor Explorations Ltd.

Assaying

All assaying and analytical work was carried out by Technical Service Laboratories of Mississauga, Ontario. Gold determinations were made by the atomic absorption method and all anomalous values were re-checked by fire assay techniques.

Core sections which appeared to have any Au potential were sampled and assayed. Unused sample material will be collected from Technical Service Laboratories and stored for possible future use.

1989 Drill Program Results

The diamond drill program was designed to test known surface mineralization at depth. Of the thirteen (13) holes drilled, eleven (11) tested the shear zone structure and two (2) tested the westward extension of the "South" or "Rickaby" zone. A plan and sections of these holes are attached.

Generally, the results of the holes drilled to test the shear zone were very encouraging, whereas the two (2) holes drilled to the south failed to locate any significant gold mineralization. The best gold values obtained in the winter program were:

<u>Hole</u>	<u>From</u>	<u>Width</u>	<u>Au. oz./ton</u>
S89-4	358'6"	3'	0.17
	514'	9'10"	0.20
	529'5"	3'3"	0.13
S89-7	247'	5'	0.11
	331'	3'3"	0.18
	411'	3'4"	0.17
S89-8	239'	3'6"	0.11
	245'	2'8"	0.11
S89-11	460'	3'	0.11
S89-13	908'	3'	0.10

Several geological features appear to be significant in the deposition of gold mineralization in this area.

1. Shear zone development producing permeable conditions favourable for hydrothermal fluid circulation.
2. Carbonitization of the mafic volcanics possibly releasing gold into the system.
3. Development of silicified, carbonatized, chloritized mineralized fracture zones.

4. Development of quartz + carbonate +/- chlorite veins, stringers and stockworks generally with sulphide mineralization in the surrounding wallrock and containing lower grade gold values.
5. Emplacement of the feldspar porphyry sill/dike creating a "heat engine" for hydrothermal re-concentration.
6. Higher concentration of both disseminated and cubic pyrite mineralization.
7. Contacts between mafic to intermediate flows and slightly coarser-grained mafic to intermediate flows.
8. Contact between mafic flows and felsic to intermediate flows.
9. Approximate proximity to mafic intrusive dikes.

A summary of the drilling results relating to the above mentioned geological features follows:

Gold values related to silicified, carbonatized, chloritized, mineralized fracture zones.

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-1	050W - 150N	719'	4'	0.043
		846'	4'	0.065
		858'	2'	0.027
		866'	10'	0.045
S89-2	010E - 100N	318'6"	4'9"	0.034
		367'6"	3'	0.089
		471'	2'	0.031
S89-3	100E - 075N	341'	5'	0.023
		402'	4'	0.026
		418'	2'10"	0.048

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-4	150E - 125N	350'	3'	0.036
		358'6"	3'	0.170
		452'	3'	0.030
		514'	9'10"	0.196
		including	3'	0.240
			4'2"	0.230
S89-5	200E - 100N	529'5"	3'3"	0.130
		220'	3'	0.033
		258'	3'	0.040
		268'	3'	0.050
		277'	5'6"	0.029
		306'	3'	0.022
		331'	5'	0.027
		370'	2'6"	0.027
		381'	3'	0.025
		416'	2'	0.039
S89-6	250E - 175N	547'	2'6"	0.064
		570'	6'	0.053
		586'	3'	0.040
		655'	3'6"	0.044
		661'	4'4"	0.072
		667'3"	2'9"	0.065
S89-7	300E - 100N	206'7"	2'11"	0.019
		242'	2'	0.057
		247'	5'	0.110
		including	2'	0.200

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
		263'	3'	0.038
		269'	3'	0.052
		331'	3'3"	0.180
		355'	5'	0.085
		411'	3'4"	0.170
S89-8	410E - 100N	169'	2'	0.029
		200'	2'6"	0.097
		229'	8'	0.056
		239'	3'6"	0.110
		245'	2'8"	0.100
		252'	4'2"	0.051
		281'6"	5'6"	0.059
		290'	2'	0.033
		395'	2'3"	0.036
		401'6"	6'	0.037
		428'	1'	0.029
S89-11	100W - 100N	460'	3'	0.110
		536'	2'	0.037
		577'	5'3"	0.044
		584'	4'	0.068
		646'	20'	0.049
S89-12	150W - 150N	786'	3'	0.031
S89-13	00 - 200N	908'	3'	0.100
		917'	2'	0.052
		948'	2'	0.065
		956'	2'6"	0.032

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- 16 -

Gold values related to quartz veins, stringers and stockworks.

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-1	050W - 150N	850'	4'	0.055
S89-3	100E - 075N	181'6"	2'	0.023
		263'	3'	0.045
S89-4	150E - 125N	452'	3'	0.030
S89-5	200E - 100N	294'	3'	0.020
		362'6"	4'6"	0.024
S89-7	300E - 100N	188'	2'	0.088
		355'	5'	0.085
S89-8	410E - 100N	302'	2'8"	0.028
		368'9"	1'6"	0.040

Gold values related to highly fractured shear zone.

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-1	050W - 150N	714'	2'	0.074
S89-2	010E - 100N	318'6"	4'9"	0.034
S89-3	100E - 075N	289'	10'	0.043
S89-6	250E - 175N	570'	6'	0.053

Gold values related to feldspar porphyry intrusive.

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-1	050W - 150N	846'	8'	0.06
		858'	2'	0.027
		866'	10'	0.045
S89-3	100E - 075N	418'	2'10"	0.048
S89-4	150E - 125N	514'	9'10"	0.196
		529'	3'3"	0.130
S89-5	200E - 100N	416'	2'	0.039
S89-6	250E - 175N	586'	3'	0.040

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
		616'	5'	0.032
		655'	3'6"	0.044
		661'	4'4"	0.072
		667'3"	2'9"	0.065
S89-7	300E - 100N	379'	1'6"	0.034
		411'	3'4"	0.170
S89-8	410E - 100N	395'	2'3"	0.036
		401'6"	6'	0.037
		411'	3'4"	0.027
		428'	1'	0.029

Gold values possibly related to mafic flow and coarser-grained mafic flow contacts.

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-2	010W - 100N	367'6"	3'	0.089
		471'	2'	0.031
S89-3	100E - 075N	341'	5'	0.023
S89-4	150E - 125N	452'	3'	0.030
S89-5	200E - 100N	268'	3'	0.050
S89-6	250E - 175N	547'	2'6"	0.064
		570'	6'	0.053
S89-7	300E - 100N	188'	2'	0.088
		263'	3'	0.038
		331'	3'3"	0.180
		343'5"	3'7"	0.027
S89-8	410E - 100N	175'	2'6"	0.027
		252'	4'2"	0.051
		281'6"	5'6"	0.059

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
		302'	2'8"	0.028
		368'9"	1'6"	0.040
S89-11	100W - 100N	536'	2'	0.037
		577'	5'3"	0.044
S89-12	150W - 100N	786'	2'	0.031
S89-13	00 - 200N	908'	3'	0.100

Gold values possibly related to mafic flow and felsic to intermediate flow contact.

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-1	050W - 150N	874'	2'	0.063
S89-11	100W - 100N	646'	20'	0.049
S89-13	00 - 200N	956'	2'6"	0.032

Gold values in the vicinity of mafic intrusive dikes.

<u>Hole</u>	<u>Location (m)</u>	<u>From</u>	<u>Width</u>	<u>Au oz/ton</u>
S89-2	010E - 100N	367'6"	3'	0.089
S89-11	100W - 100N	460'	3'	0.110
		577'	5'3"	0.044
		584'	4'	0.068

Conclusions

The Carlson/Black Gregor property in the area of the Agaura prospect is underlain by a lower mafic pyroclastic unit (in the north) conformably overlain by 300 feet of massive mafic flows and coarser-grained mafic flows which host silicified, carbonitized, chloritized and mineralized shear zones; overlain by an 800 foot thick series of highly altered felsic to intermediate flows and pyroclastics. A quartz feldspar porphyritic intrusion cuts a mafic flow unit at its upper contact and appears to have been intruded as a sill and/or dikes.

The following geological features appear to be significant in defining areas of potential gold mineralization in the area of the Agaura showing and the remaining property area:

- i. Areas with shear zone development producing permeable conditions favourable for hydrothermal fluid circulation
- ii. Areas of intense carbonatization and presence of disseminated pyrite mineralization that may be associated with a gold mobilizing event; and
- iii. Spatial association of felsic intrusives of alkaline composition which may create a "heat engine" for hydrothermal re-concentration.

Other less important features that may warrant further investigation include:

1. proximity to mafic flow and coarser-grained mafic flow contacts; and
2. The contact between the mafic volcanics and the felsic to intermediate volcanics.

Recommendations

To follow up on the encouraging results from the winter drill program, and to further evaluate this large (179 claims) property, I would recommend that additional linecutting be completed, followed by geological mapping, prospecting and induced polarization geophysical surveying. Additional diamond drilling would then be planned to test the most favourable new targets and also to detail the gold intersections located by the winter 1989 drill program.

Listed below are the estimated budget costs for this next phase of proposed exploration.

(1)	Linecutting - 20 miles @ \$500/mile	\$ 10,000
(2)	Induced Polarization - 20 miles @ \$2,000/mile	40,000
(3)	Geological mapping and prospecting	15,000
(4)	Diamond Drilling - 10,000 ft @ \$20/ft.	200,000
(5)	Engineering, drafting, assaying	<u>35,000</u>
		\$ 300,000

Respectfully submitted,

Don Hillier, B.Sc.

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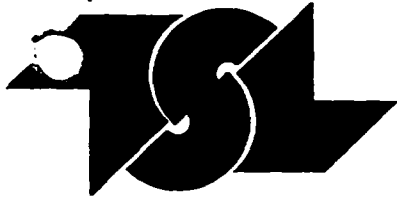
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REPORT No.

M5597

SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1201	<5	
1202	<5	
1203	<5	
1204	<5	
1205	<5	
1206	<5	± 5
1207	<5	
1208	10	
1209	<5	
1210	<5	
1211	<5	
1212	<5	
1213	5	
1214	100	
1215	65	
1216	15	
1217	10	
1218	<5	
1219	<5	
1220	<5	

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Core

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P.O.:

	Gold Au ppb	Gold Au oz/t
1221	5	
1222	<5	
1223	45	
1224	5	
1225	10	
1226	5	# 5
1227	5	
1228	5	
1229	5	
1230	20	
1231	5	
1232	10	
1233	<5	
1234	<5	
1235	<5	
1236	5	
1237	10	
1238	5	
1239	5	
1240	<5	

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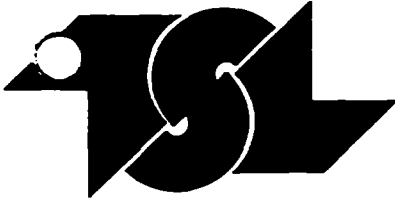
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SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1241	10	
1242	5	
1243	5	
1244	5	
1245	5	
1246	5	
1247	20	
1248	185	<i>AS</i>
1249	45	
1250	60	
1251	30	
1252	15	
1253	480	
1254	650	0.033
1255	80	
1256	10	
1257	10	
1258	5	
1259	30	
1260	15	

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SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1261	<5	
1262	<5	
1263	>1000	0.040
1264	30	
1265	285	
1266	>1000	0.050
1267	35	
1268	10	
1269	900	0.029
1270	590	
1271	15	
1272	55	
1273	660	0.020
1274	85	
1275	630	0.024
1276	10	
1277	800	0.022
1278	30	
1279	95	
1280	10	

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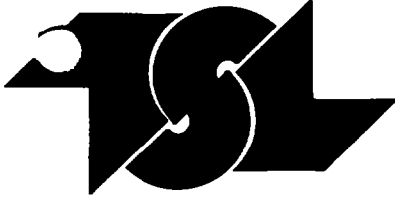
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SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1281	610	
1282	25	
1283	870	0.027
1284	420	
1285	40	
1286	330	
1287	470	
1288	235	
1289	75	
1290	430	
1291	255	
1292	>1000	0.030
1293	630	0.022
1294	310	
1295	970	0.027
1296	265	
1297	420	
1298	50	
1299	970	0.025
1300	210	

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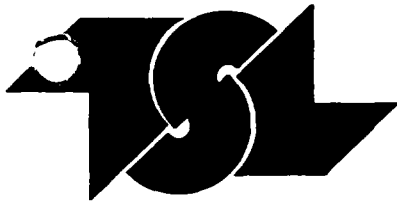
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SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1301	35	
1302	80	
1303	10	
1304	30	
1305	420	
1306	5	
1307	515	
1308	>1000	0.039
1309	230	
1310	45	
1311	5	
1312	<5	
1313	<5	
1314	<5	
1315	<5	
1316	<5	
1317	5	
1318	15	
1319	125	
1320	65	

A S

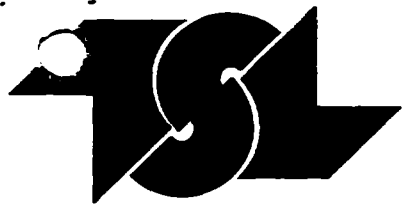
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Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1321	130	
1322	75	
1323	115	
1324	25	
1325	220	
1326	120	
1327	540	# 5
1328	80	
1329	520	
1330	180	
1331	10	
1332	10	

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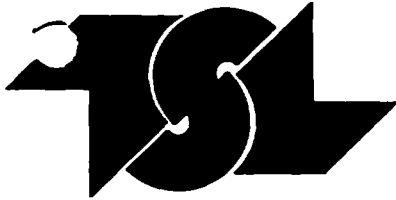
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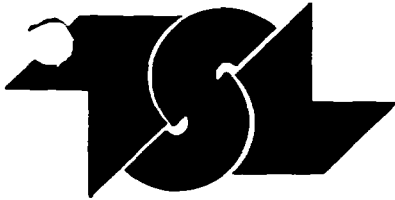
	Gold Au ppb	Gold Au oz/t
1863	10	
1864	10	
1865	500	
1866	1000	0.034
1867	600	
1868	195	
1869	340	
1870	55	
1871	165	
1872	285 (295, 275)	
1873	100	
1874	5	
1875	55	
1876	185	
1877	>1000	0.17
1878	145	
1879	50	
1880	95	
1881	55	
1882	240 (245, 235)	

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	Gold Au ppb	Gold Au oz/t
1883	10	
1884	155	
1885	65	
1886	530	
1887	600	
1888	30	
1889	25	
1890	60	
1891	25	
1892	30 (25, 35)	
1893	10	
1894	<5	
1895	.20	
1896	10	
1953	5	
1954	5	
1955	5	
1956	10	
1957	>1000	0.11
1958	65 (60, 65)	

Handwritten notes:
A line is drawn under the values 10, .20, 10, 5 for samples 1893-1953. An arrow points down from this line to the value 5 for sample 1953. The number "# 11" is written next to the arrow. The number "# 7" is written above the value <5 for sample 1894.

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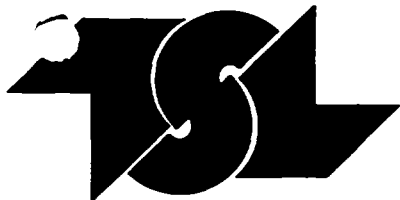
	Gold Au ppb	Gold Au oz/t
1959	70	0.057
1960	40	
1961	<5	
1962	35	
1963	110	
1964	35	
1965	125	
1966	10	
1967	35	
1968	135 (105, 165)	
1969	>1000	0.037
1970	220	
1971	20	
1972	80	
1973	40	
1974	240	
1975	250	
1976	>1000	0.046
1977	930	0.042
1978	50 (55, 40)	

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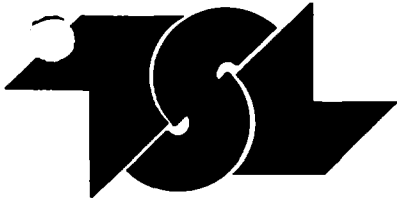
	Gold Au ppb	Gold Au oz/t
1979	>1000	0.068 (0.065, 0.070)
1980	20	
1981	130	
1982	20	
1983	460	
1984	760	<u>4</u> //
1985	270	
1986	15	
1987	70	
1988	5 (<5, 5)	
1989	30	
1990	<5	
1991	15	
1992	110	
1993	235	
1994	105	0.057
1995	110	
1996	>1000	
1997	>1000	
1998	>1000 (>1000, >1000)	

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	Gold Au ppb	Gold Au oz/t
1999	>1000	0.052
2000	>1000	0.035
4101	335	
4102	355	
4103	265	
4104	305	
4105	20	
4106	105	
4107	45	
4108	290 (285, 295)	
4109	145	
4110	15	
4111	15	
4112	45	
4113	30	
4114	20	
4115	15	
4116	>1000	0.100
4117	335	
4118	380 (330, 425)	

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Core

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	Gold Au ppb	Gold Au oz/t
4119	>1000	0.052
4120	620	
4121	215	
4122	510	
4123	25	
4124	165	
4125	575	
4126	135	
4127	135	
4128	125 (100, 145)	
4129	>1000	0.065
4130	410	
4131	630	
4132	950	0.032
4133	490	
4134	170	
4135	95	
4136	215	
12260	5	
12261	20 (10, 25)	

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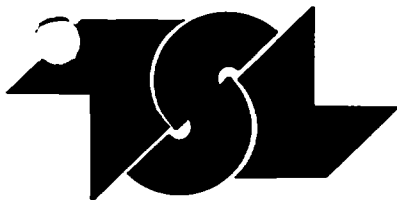
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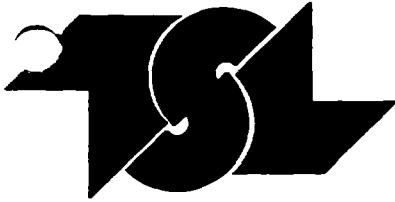
	Gold Au ppb	Gold Au oz/t
12262	5	
12263	20	
12264	5	
12265	<5	
12266	<5	
12267	5	
12268	<5	
12269	10	
12270	180	
12271	370 (385, 355)	
12272	40	
12273	120	
12274	100	
12275	850	0.031
12276	90	
12277	20	
12278	730	
12279	170	
12280	115	
12281	180 (155, 205)	

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	Gold Au ppb	Gold Au oz/t
12282	15	
12283	300	
12284	690	
12285	45	
12286	30	
12287	5	
12288	30	
12289	120	
12290	15	
12291	60 (55, 65)	
12292	<5	
12293	5	
12294	20	
12295	5	#3
12296	<5	
12297	20	
12298	10	↑
12299	5	
12300	10	
18910	55 (55, 50)	

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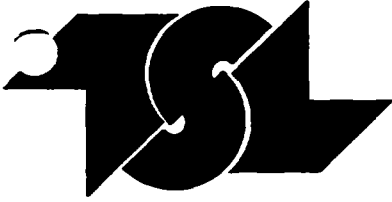
	Gold Au ppb	Gold Au oz/t
18911	570	
18912	830	0.036
18913	5	
18914	5	
18915	>1000	0.17
18916	550	
18917	305	
18918	15	
18919	25	
18920	30 (35, 20)	
18921	600	
18922	290	
18923	70	
18924	5	
18925	10	
18926	45	
18927	5	
18928	110	
18929	160	
18930	55 (55, 55)	

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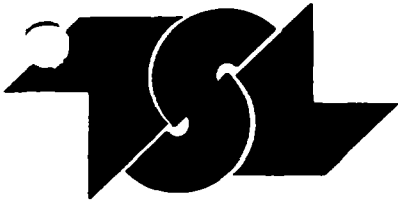
	Gold Au ppb	Gold Au oz/t
18931	10	
18932	55	
18933	10	
18934	45	
18935	10	
18936	50	
18937	10	
18938	5	
18939	20	
18940	10 (15, 5)	
18941	450	
18942	>1000 (>1000, >1000)	0.030
18943	20	
18944	25	
18945	45	
18946	15	
18947	600	
18948	5 (5, 5, 10)	>0.005
18949	250	
18950	35 (10, 60)	

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SAMPLE(S) FROM **James Bay Company**
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Mississauga, Ontario
L4Z 1P3

REPORT No.
M5579

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

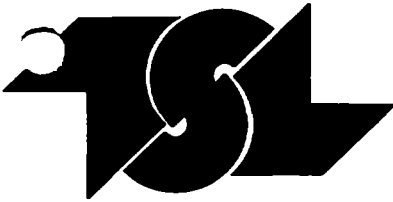
	Gold Au ppb	Gold Au oz/t
1333	>5	
1334	5	
1335	<5	
1336	5	
1337	10	
1338	5	
1339	<5	
1340	5	
1341	5	
1342	5 (5, 5)	
1343	20	
1344	<5	
1345	5	
1346	<5	
1347	5	
1348	<5	
1349	<5	
1350	<5	
1351	<5	
1352	5 (5, 5)	

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	Gold Au ppb	Gold Au oz/t
1353	5	
1354	<5	
1355	5	
1356	<5	
1357	<5	
1358	5	
1359	5	
1360	5	
1361	<5	
1362	5 (5, 5)	
1363	5	
1364	5	
1365	<5	
1366	10	
1367	10	
1368	5	
1369	5	
1370	5	
1371	5	
1372	<5 (<5, <5)	

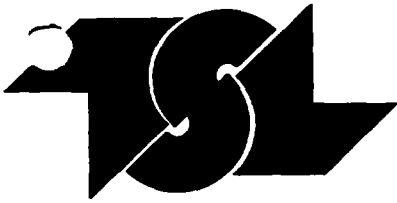
IF 6

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	Gold Au ppb	Gold Au oz/t
1373	<5	
1374	<5	
1375	5	
1376	<5	
1377	5	
1378	350	
1379	150	
1380	155	
1381	25	
1382	10, (10, 10)	
1383	10	
1384	215	
1385	145	
1386	20	
1387	400	
1388	20	
1389	115	
1390	15	
1391	360	
1392	210 (200, 220)	

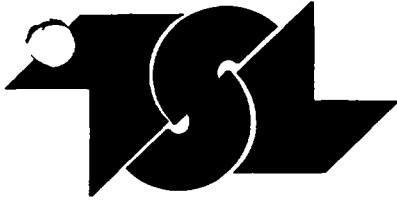
6

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INVOICE #:
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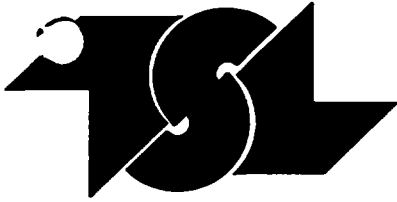
	Gold Au ppb	Gold Au oz/t
1393	5	
1394	5	
1395	5	
1396	5	
1397	5	# 6
1398	<5	
1399	5	
1400	5	
1701	5	
1702	5 (5, 5)	
1703	10	
1704-1705	15	
1706	70	
1707	70	L 10
1708	85	
1709	15	
1710	40	
1711	15	
1712	30	
1713	15 (10, 15)	

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	Gold Au ppb	Gold Au oz/t
1714	5	
1715	5	
1716	290	
1717	10	
1718	30	
1719	470	
1720	35	
1721	120	
1722	15	
1723	75 (70, 75)	
1724	125	
1725	125	
1726	75	
1727	15	
1728	375	
1729	240	
1730	10	
1731	15	
1732	30	
1733	10 (10, 10)	

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	Gold Au ppb	Gold Au oz/t
1734	10	
1735	100	
1736	20	
1737	115	
1738	35	
1739	<5	
1740	380	
1741	160	
1742	20	
1743	5 (5, <5)	
1744	<5	
1745	235	
1746	150	
1747	15	
1748	390	
1749	15	
1750	110	
1751	10	
1752	355	
1753	200 (190, 210)	

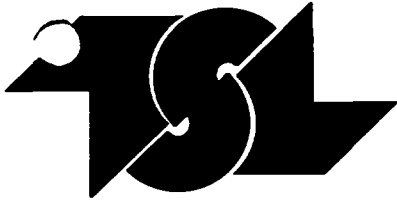
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INVOICE #:
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	Gold Au ppb	Gold Au oz/t
1754	20	
1755	<5	
1756	100	
1757	255	
1758	5	
1759	>1000	0.064 #6
1760	10	
1761	620	
1762	25	
1763	40 (35, 45)	
1764	30	
1765	>1000	0.053
1766	75	
1767	55	
1768	>1000	0.040
1769	240	
1770	275	
1771	235	
1772	20	
1773	490 (500, 480)	

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SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

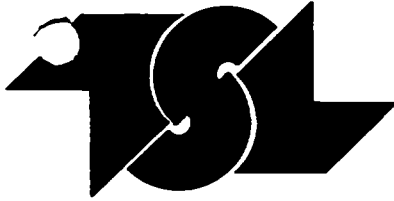
	Gold Au ppb	Gold Au oz/t
1774	440	
1775	380	
1776	10	
1777	805	0.032
1778	330	
1779	55	
1780	5	16
1781	<5	
1782	5	
1783	15 (20, 10)	
1784	<5	
1785	100	
1786	850	0.044
1787	365	
1788	>1000	0.041
1789	>1000	0.086
1790	260	
1791	>1000	0.065
1792	290	
1793	100 (95, 105)	

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SAMPLE(S) OF **Core**

INVOICE #:
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	Gold Au ppb	Gold Au oz/t
1794	50	
1795	20	
1796	5	
1797	30	
1798	5	
1828	95	
1829	.1000	0.038 (0.043, 0.032)
1830	15	
1831	>1000	0.052
1832	50 (65, 35)	
1833	20	
1834	110	
1835	140	
1836	120	
1837	700	
1838	245	
1839	65	
1840	410	
1841	500	
1842	420 (400, 440)	

#6
↑

#7

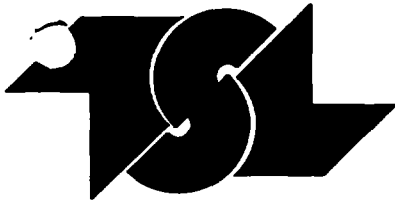
#

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REPORT No.
M5579

SAMPLE(S) OF **Core**

INVOICE #:
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	Gold Au ppb	Gold Au oz/t
1843	350	
1844	40	
1845	175	
1846	30	
1847	260	
1848	10	
1849	235	
1850	135	
1851	20	
1852	>1000 (>1000, >1000)	0.18
1853	400	
1854	55	
1855	860	0.027
1856	295	
1857	175	
1858	20	
1859	>1000	0.085
1860	35	
1861	380	
1862	115 (100, 125)	

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REPORT No.
M5554

SAMPLE(S) OF **Core**

INVOICE #:
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Carl Gourley

	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13435	<1	<1	<0.2
13436	<1	<1	<0.2
13437	<1	<1	<0.2
13438	<1	<1	<0.2
13439	<1	<1	<0.2
13440	<1	<1	<0.2
13441	<1	<1	<0.2
13442	<1	<1	<0.2
13443	<1	<1	<0.2
13444	1	<1	<0.2
13446	<1	<1	<0.2
13447	<1	<1	<0.2
13449	<1	<1	<0.2
13450	<1	1	<0.2
13451	<1	<1	<0.2
13453	<1	<1	<0.2
13456	<1	<1	<0.2
13457	<1	<1	0.6
13458	<1	<1	0.4
13460	<1	<1	<0.2

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REPORT No.
M5554

SAMPLE(S) OF **Core**

INVOICE #:
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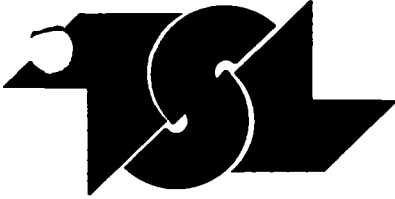
	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13461	<1	<1	<0.2
13462	<1	<1	<0.2
13463	<1	<1	<0.2
13464	<1	<1	0.2
13465	<1	<1	<0.2
13466	<1	<1	<0.2
13467	<1	<1	<0.2
13468	<1	<1	<0.2
13469	<1	<1	<0.2
13470	<1	<1	<0.2
13471	<1	<1	<0.2

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REPORT No.
M5583

SAMPLE(S) OF **Core**

INVOICE #:
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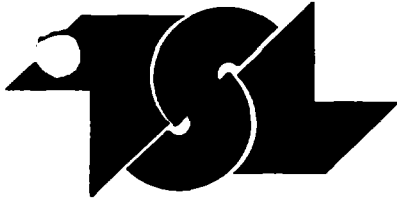
	Gold Au ppb	Gold Au oz/t
18951	5	
18952	10	
18953	<5	
18954	30	
18955	15	
18956	45	
18957	60	
18958	>1000	0.094
18959	>1000	0.24 (0.24, 0.24)
18960	>1000 (>1000, >1000)	0.23
18961	255	
18962	180	
18963	>1000	0.13 (0.12, 0.13)
18964	80	
18965	25	
18966	<5	
18967	<5	
18968	35	
18969	<5	
18970	<5	

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REPORT No.
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SAMPLE(S) OF
Core

INVOICE #:
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	Gold Au ppb	Gold Au oz/t
18971	<5	
18972	<5	
18973	10	
18974	20	
18975	5	
18976	45	
18977	<5	
18978	5	
18979	40	
18980	10 (15, 5)	
18981	30	
18982	5	
18983	<5	
18984	5	
18985	20	
18986	<5	
18987	<5	
18988	5	
18989	<5	
18990	5 (10, <5)	

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	Gold Au ppb	Gold Au oz/t
18991	<5	
18992	35	
18993	25	
1142	10	
1143	<5	
1144	<5	
1145	<5	
1146	5	
1147	20	
1148	10 (10, 5)	
1149	<5	
1150	5	
1151	<5	
1152	<5	
1153	5	
1154	<5	
1155	<5	
1156	<5	
1157	<5	
1158	5 (<5, 5)	

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	Gold Au ppb	Gold Au oz/t
1159	20	
1160	<5	
1161	<5	
1162	10	
1163	<5	
1164	10	
1165	<5	
1166	25	
1167	5	
1168	5 (5, 5)	
1169	30	
1170	<5	
1171	5	
1172	<5	
1173	10	
1174	170	
1175	15	
1176	10	
1177	15	
1178	20 (10, 25)	

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	Gold Au ppb	Gold Au oz/t
1179	10	
1180	5	
1181	10	
1182	95	
1183	10	
1184	5	
1185	<5	
1186	<5	
1187	5	
1188	5 (<5, 10)	
1189	5	
1190	<5	
1191	20	
1192	<5	
1193	10	
1194	25	
1195	5	
1196	10	
1197	5	
1198	5 (<5, 5)	

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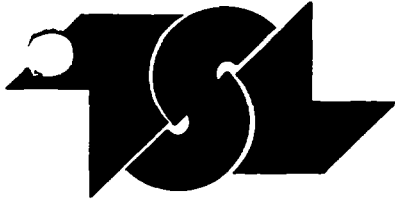
	Gold Au ppb	Gold Au oz/t
1199	30	
1200	10	
1799	35	
1800	105	
1801	10	
1802	100	
1803	400	
1804	580	
1805	>1000	0.088
1806	150 *110, 175)	
1807	20	
1808	35	
1809	230	
1810	35	
1811	65	
1812	700	0.019
1813	270	
1814	15	
1815	40	
1816	10 (10, 5)	

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	Gold Au ppb	Gold Au oz/t
1817	10	
1818	155	
1819	10	
1820	130	
1821	355	
1822	>1000	0.057
1823	225	
1824	>1000	0.20
1825	>1000	0.047
1826	55 (80, 30)	
1827	90	
12001	70	
12002	15	
12003	5	
12004	10	
12005	10	
12006	<5	
12007	60	
12008	5	
12009	<5 (<5, <5)<5	

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L4W 1A2

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM **James Bay Company**
102-225 Watline Avenue
Mississauga, Ontario
L4Z 1P3

REPORT No.
M5583

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

Carl Gourley

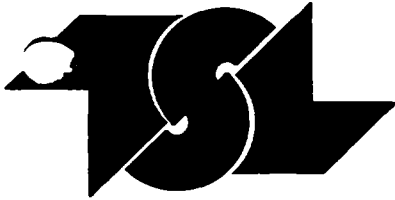
	Gold Au ppb	Gold Au oz/t
12010	20	
12011	<5	
12012	<5	
12013	<5	
12014	<5	
12015	<5	
12016	<5	
12017	<5	
12018	<5	
12019	<5 (<5, <5)	
12020	<5	
12021	<5	
12022	<5	
12023	<5	
12024	<5	
12025	<5	
12026	<5	
12027	<5	
12028	<5	
12029	<5 (<5, <5)	

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM James Bay Company
102-225 Watline Avenue
Mississauga, Ontario
L4Z 1P3

REPORT No.
M5583

SAMPLE(S) OF Core

INVOICE #:
P.O.:

Carl Gourley

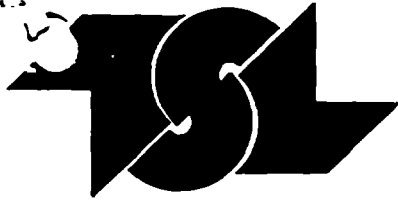
	Gold Au ppb	Gold Au oz/t
12030	<5	
18901	50	
18902	10	
18903	5	
18904	120	
18905	15	
18906	315	
18907	10	
18908	5	
18909	40 (40, 40)	

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SAMPLE(S) FROM James Bay Company
102-225 Watline Avenue
Mississauga, Ontario
L4Z 1P3

REPORT No.
M5552

SAMPLE(S) OF Core

INVOICE #:
P.O.:

Carl Gourley

	Gold Au ppb	Gold Au oz/t
1918	10	
1919	190	
1920	95	
1921	15	
1922	20	
1923	10	
1924	5	
1925	85	
1926	60	
1927	230 (215, 245)	
1928	10	
1929	15	
1930	25	
1931	>1000	0.031
1932	15	
1933	310	
1934	110	
1935	5	
1936	70	
1937	20 (25, 10)	

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REPORT No.

M5552

SAMPLE(S) OF Core

INVOICE #:
P.O.:

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	Gold Au ppb	Gold Au oz/t
1938	30	
1939	10	
1940	35	
1941	15	
1942	65	
1943	15	
1944	130	
1945	15	
1946	20	
1947	95 (75, 110)	
1948	10	
1949	345	
1950	140	
1951	170	
1952	485	

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM **James Bay Kaolin**
102-225 Watline Avenue
Mississauga, Ontario
L4Z 1P3

REPORT No.
M5545

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

Carl Gourley

	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13101	<1	<1	<0.2
13102	<1	<1	<0.2
13103	<1	<1	<0.2
13104	<1	<1	<0.2
13106	<1	<1	<0.2
13107	<1	<1	<0.2
13108	<1	<1	<0.2
13109	<1	<1	<0.2
13110	<1	<1	<0.2
13111	<1	<1	<0.2
13112	<1	<1	<0.2
13113	1	<1	<0.2
13114	<1	1	<0.2
13115	<1	1	<0.2
13117	<1	<1	<0.2
13118	<1	<1	<0.2
13119	<1	<1	<0.2
13120	<1	<1	<0.2
13121	<1	<1	<0.2
13122	<1	<1	<0.2

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM **James Bay Kaolin**
102-225 Watline Avenue
Mississauga, Ontario
L4Z 1P3

REPORT No.
M5545

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

Carl Gourley

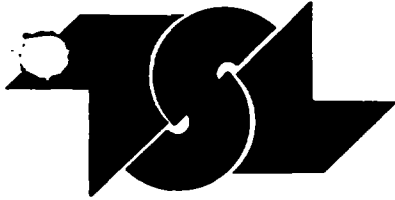
	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13123	<1	<1	<0.2
13124	<1	<1	<0.2
13125	<1	<1	<0.2
13126	<1	<1	<0.2
13127	<1	<1	<0.2
13128	<1	<1	<0.2
13129	<1	<1	<0.2
13130	<1	<1	<0.2
13131	<1	<1	<0.2
13132	<1	<1	<0.2
13133	<1	1	<0.2
13134	<1	1	<0.2
13135	<1	<1	<0.2
13136	<1	<1	<0.2
13137	<1	<1	<0.2
13138	<1	<1	<0.2
13139	<1	<1	<0.2
13140	<1	<1	<0.2
13141	<1	<1	<0.2
13143	1	<1	<0.2

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L4Z 1P3

REPORT No.
M5545

SAMPLE(S) OF **Core**

INVOICE #:
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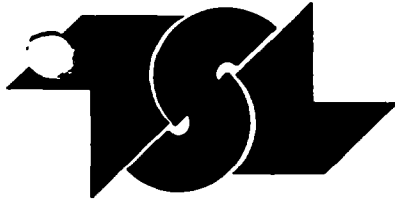
	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13146	<1	<1	<0.2
13147	<1	<1	<0.2
13148	<1	<1	<0.2
13149	<1	<1	<0.2
13150	1	<1	<0.2
13151	1	<1	<0.2
13152	<1	<1	<0.2
13153	<1	<1	<0.2
13154	<1	<1	<0.2
13155	<1	<1	<0.2
13156	<1	<1	<0.2
13157	<1	<1	<0.2
13158	<1	<1	<0.2
13159	<1	<1	<0.2
13160	<1	<1	<0.2
13161	<1	<1	<0.2
13162	1	<1	<0.2
13163	1	<1	<0.2
13165	<1	<1	<0.2
13168	<1	<1	<0.2

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REPORT No.
M5545

SAMPLE(S) OF **Core**

INVOICE #:
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	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13169	<1	<1	<0.2
13170	<1	<1	<0.2
13171	<1	<1	<0.2
13172	<1	<1	<0.2
13173	<1	<1	<0.2
13174	<1	<1	<0.2
13177	<1	<1	<0.2
13178	<1	<1	<0.2
13179	1	<1	<0.2
13180	<1	<1	<0.2
13181	<1	<1	<0.2
13182	<1	<1	<0.2
13183	<1	<1	<0.2
13184	<1	<1	<0.2
13197	<1	<1	<0.2
13198	<1	<1	<0.2
13199	<1	<1	<0.2
13200	<1	<1	<0.2
13401	<1	1	<0.2
13402	<1	<1	<0.2

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M5545

SAMPLE(S) OF **Core**

INVOICE #:
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	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13403	<1	1	0.4
13405	<1	<1	0.4
13406	N/S	N/S	N/S
13407	<1	<1	0.2
13408	<1	<1	0.2
13409	<1	<1	<0.2
13410	<1	<1	<0.2
13411	<1	<1	0.6
13412	<1	<1	<0.2
13413	<1	<1	<0.2
13414	<1	<1	<0.2
13418	1	<1	0.4
13420	<1	1	0.4
13421	<1	2	0.8
13422	<1	<1	1.0
13423	<1	<1	<0.2
13425	<1	<1	<0.2
13426	<1	<1	<0.2
13427	<1	<1	<0.2
13428	<1	<1	<0.2

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SAMPLE(S) FROM **James Bay Kaolin**
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Mississauga, Ontario
L4Z 1P3

REPORT No.
M5545

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

Carl Gourley

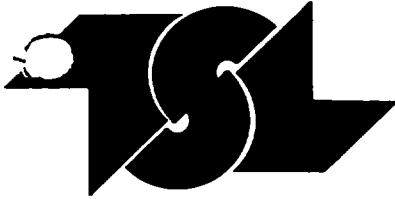
	Arsenic As ppm	Antimony Sb ppm	Silver Ag ppm
13429	<1	<1	<0.2
13430	<1	<1	<0.2
13431	<1	<1	<0.2
13432	<1	<1	<0.2
13433	<1	<1	<0.2
13434	<1	<1	<0.2

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SAMPLE(S) FROM

James Bay Company
102-225 Watline Ave.
Mississauga, Ontario
L4X 1P3

REPORT No.
M5543

SAMPLE(S) OF

Core

INVOICE #:
P.O.:

	Gold Au ppb	Gold Au oz/t
10231	5	
10232	15	
10233	20	
10234	10	
10235	5	
10236	5	
10237	10	
10238	10	
10239	<5	
10240	<5 (<5, <5)	
10241	<5	
10242	5	
10243	20	
10244	40	
10245	50	
10246	20	
10247	30	
10248	30	
10249	15	
10250	15 (20, 10)	

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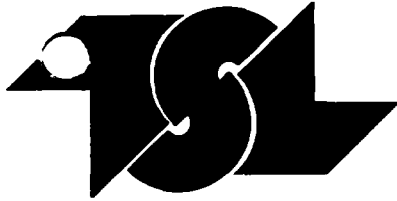
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SAMPLE(S) FROM

James Bay Company
102-225 Watline Ave.
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REPORT No.

M5543

SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
10251	5	
10252	10	
10253	20	
10254	140	
10255	20	
10256	30	
10257	35	
10258	40	
10259	70	
10260	50 (55, 45)	
10261	360	
10262	65	
10263	80	
10264	100	
10265	75	
10266	970	0.031 (0.031, 0.030)
10267	495	
10268	120	
10269	25	
10270	30 (45, 10)	

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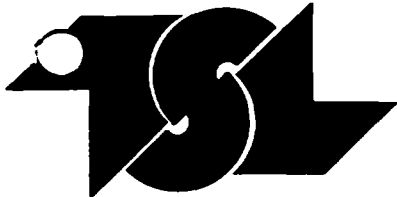
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Samuel J. Balish





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SAMPLE(S) FROM James Bay Company
102-225 Watline Ave.
Mississauga, Ontario
L4X 1P3

REPORT No.
M5543

SAMPLE(S) OF Core

INVOICE #:
P.O.:

	Gold Au ppb	Gold Au oz/t
10271	120	
10272	10	
10273	<5	
10274	<5	
10275	75	
10276	5	
10277	490	
10278	140	
10279	55	
10280	55 (50, 60)	
10281	135	
10282	75	
10283	5	

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SAMPLE(S) FROM **James Bay**
102-225 Watline Ave.
Mississauga, Ontario
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REPORT No. M5529

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

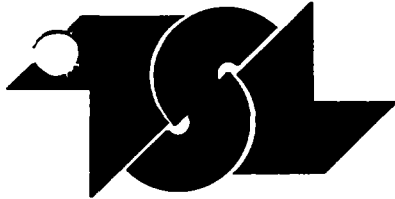
	Gold Au ppb	Gold Au oz/t
12084	<5	
12085	<5	
12086	5	
12087	15	
12088	<5	
12089	<5	
12090	<5	
12091	125	
12092	60	
12093	35 (30, 35)	
12094	15	
12095	125	
12096	<5	
12097	10	
12098	<5	
12099	<5	
12100	<5	
12101	<5	
12102	<5	
12103	<5	

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SAMPLE(S) FROM **James Bay**
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Mississauga, Ontario
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REPORT No.
M5529

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

	Gold Au ppb	Gold Au oz/t
12104	<5	
12105	5	
12106	10	
12107	5	
12108	5	
12109	5	
12110	50	
12111	10	
12112	10	
12113	5 (5, 5)	
12114	15	
12115	150	
12116	5	
12117	5	
12118	5	
12119	35	
12120	15	
12121	25	
12122	15	
12123	50 (55, 40)	

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SAMPLE(S) FROM

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102-225 Watline Ave.
Mississauga, Ontario
L4X 1P3

REPORT No.

M5529

SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
12124	20	
12125	>1000	0.074
12126	75	
12127	>1000	0.053 (0.051, 0.054)
12128	>1000	0.033
12129	40	
12130	305	
12131	35	
12132	235	
12133	40 (40, 40)	
12134	145	
12135	70	

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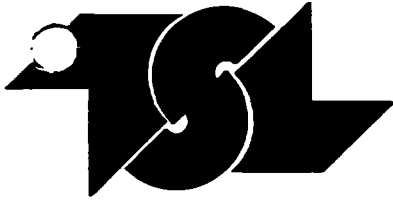
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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

James Bay Company
102-225 Watline Ave.
Mississauga, Ontario
L4X 1P3

REPORT No.

M5534

SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1897	260	
1898	<5	
1899	10	
1900	70	
1901	525	
1902	240	
1903	45	
1904	>1000	0.034 (0.034, 0.033)
1905	110	
1906	40 (40, 35)	
1907	30	
1908	<5	
1909	>1000	0.089 (0.088, 0.089)
1910	25	
1911	70	
1912	50	
1913	40	
1914	335	
1915	30	
1916	5 (5, 5)	

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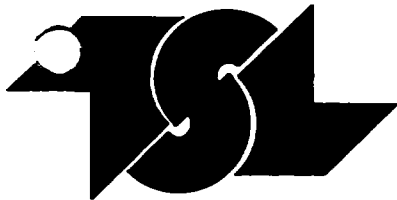
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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

James Bay Company
102-225 Watline Ave.
Mississauga, Ontario
L4X 1P3

REPORT No.

M5534

SAMPLE(S) OF

Core

INVOICE #:

P.O.:

	Gold Au ppb	Gold Au oz/t
1917	10	
12136	20	
12137	145	
12138	20	
12139	20	
12140	25	
12141	650	
12142	270	
12143	35	
12144	30 (30, 30)	
12145	325	
12146	85	
12147	30	
12148	105	
12149	650	
12150	180	
12151	190	
12152	40	
12153	25	
12154	20 (20, 15)	

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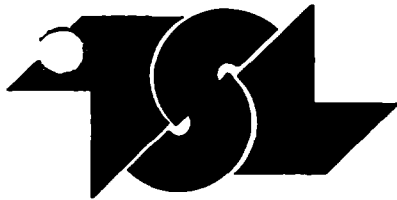
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Harold J. Bilish





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James Bay Company
102-225 Watline Ave.
Mississauga, Ontario
L4X 1P3

REPORT No.

M5534

SAMPLE(S) OF

Core

INVOICE #:

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	Gold Au ppb	Gold Au oz/t
12155	10	
12156	60	
12157	335	
12158	465	
12159	>1000	0.065 (0.054, 0.075)
12160	>1000	0.055 (0.050, 0.060)
12161	315	
12162	820	0.027
12163	165	
12164	435 (460, 405)	
12165	810	0.027
12166	>1000	0.053 (0.046, 0.060)
12167	>1000	0.063 (0.071, 0.055)
12168	540	
12169	50	
12170	130	
12171	90	
12172	25	

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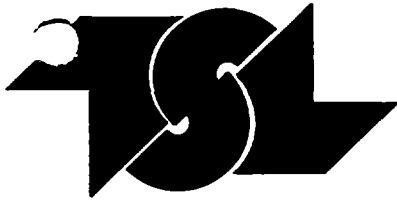
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REPORT No. M5518

SAMPLE(S) OF **Core**

INVOICE #:
P.O.:

Carl Gourley

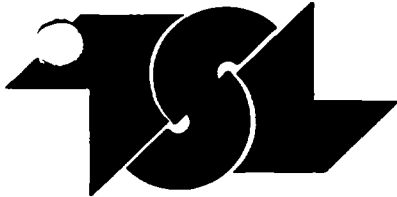
	Gold Au ppb	Gold Au oz/t
1001	5	
1002	5	
1003	5	
1004	10	
1005	10	
1006	10	
1007	15	
1008	35	
1009	15	
1010	5	
1011	5	
1012	5	
1013	220	
1014	5	
1015	5	
1016	60	
1017	130	
1018	25	
1019	10	
1020	30	

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REPORT No. M5518

SAMPLE(S) OF **Core**

INVOICE #:
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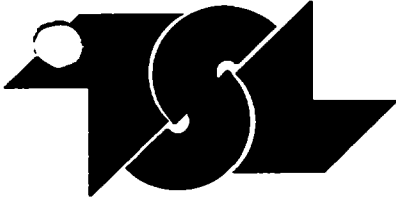
	Gold Au ppb	Gold Au oz/t
1021	25	
1022	35	
1023	25	
1024	90	
1025	5	
1026	5	
1027	<5	
1028	5	
1029	5	
1030	15	
1031	5	
1032	<5	
1033	15	
1034	10	
1035	5	
1036	<5	
1037	5	
1038	5	
1039	890	0.023
1040	10	

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SAMPLE(S) OF

Core

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	Gold Au ppb	Gold Au oz/t
1041	105	
1042	15	
1043	10	
1044	15	
1045	5	
1046	10	
1047	10	
1048	15	
1049	10	
1050	15	
1051	15	
1052	10	
1053	15	
1054	100	
1055	170	
1056	110	
1057	175	
1058	205	
1059	20	
1060	10	

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Core

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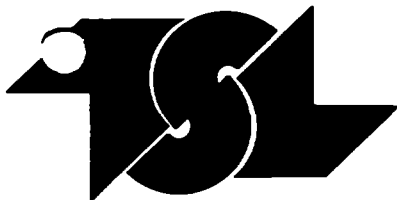
	Gold Au ppb	Gold Au oz/t
1061	205	
1062	40	
1063	30	
1064	250	
1065	915	0.045
1066	120	
1067	145	
1068	25	
1069	50	
1070	255	
1071	>1000	0.052
1072	>1000	0.034
1073	190	
1074	115	
1075	15	
1076	20	
1077	295	
1078	50	
1079	100	
1080	235	

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REPORT No.
M5518

SAMPLE(S) OF
Core

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	Gold Au ppb	Gold Au oz/t
1081	270	
1082	790	0.023
1083	200	
1084	15	
1085	95	
1086	15	
1087	125	
1088	100	
1089	135	
1090	35	
1091	10	
1092	550	
1093	430	
1094	20	
1095	>1000	0.026
1096	710	
1097	430	
1098	650	
1099	710	
1100	>1000	0.048

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M5518

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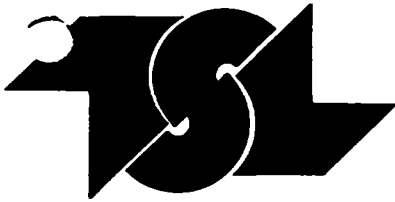
	Gold Au ppb	Gold Au oz/t
1101	100	
1102	85	
1103	90	
1104	135	
1105	150	
1106	10	
1107	285	
1108	65	
1109	60	
1110	275	
1111	115	
1112	35	
1113	55	
1114	120	
1115	15	
1116	20	
1117	15	
1118	40	
1119	20	
1120	70	

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M5518

SAMPLE(S) OF Core

INVOICE #:
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	Gold Au ppb	Gold Au oz/t
1121	10	
1122	<5	
1123	25	
1124	5	
1125	5	
1126	5	
1127	40	
1128A	<5	
1128B	20	
1129A	50	
1129B	25	
1130	35	
1131	5	
1132	20	
1133A	40	
1133B	25	
1134A	45	
1134B	5	
1135A	135	
1135B	85	

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M5518

SAMPLE(S) OF Core

INVOICE #:
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	Gold Au ppb	Gold Au oz/t
1136A	35	
1136B	10	
1137A	5	
1137B	15	
1138	5	
1139	5	
1140A	10	
1140B	5	
1141A	15	
1141B	10	

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SAMPLE(S) FROM James Bay Company
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REPORT No.
M5566

SAMPLE(S) OF Core

INVOICE #:
P.O.:

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	Gold Au ppb	Gold Au oz/t
12173	15	
12174	205	
12175	5	
12176	30	
12177	30	
12178	>1000	0.029
12179	190	
12180	295	
12181	>1000	0.027
12182	430 (495, 365)	
12183	25	
12184	25	
12185	10	
12186	10	
12187	10	
12188	515	
12189	>1000	0.097
12190	125	
12191	25	
12192	100 (105, 90)	

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REPORT No.

M5566

SAMPLE(S) OF

Core

INVOICE #:

P.O.:

Carl Gourley

	Gold Au ppb	Gold Au oz/t
12193	<5	
12194	10	
12195	<5	
12196	<5	
12197	5	
12198	>1000	0.030
12199	>1000	0.052
12200	>1000	0.085
12201	445	
12202	>1000 (>1000, >1000)	0.11 (0.11, 0.11)
12203	495	
12204	>1000	0.10
12205	895	
12206	395	
12207	>1000	0.051
12208	50	
12209	20	
12210	275	
12211	>1000	0.057
12212	>1000	0.060

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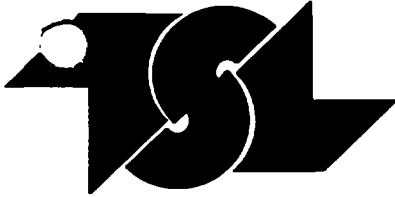
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L4Z 1P3

REPORT No.
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SAMPLE(S) OF **Core**

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P.O.:

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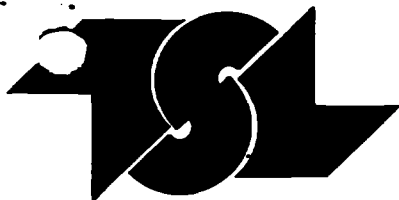
	Gold Au ppb	Gold Au oz/t
12213	150	
12214	>1000	0.033
12215	60	
12216	645	
12217	295	
12218	865	0.028
12219	10	
12220	110	
12221	135	
12222	5 (5, 5)	
12223	625	
12224	10	
12225	545	
12226	45	
12227	>1000	0.040
12228	15	
12229	545	
12230	35	
12231	180	
12232	225 (250, 195)	

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L4Z 1P3

REPORT No.
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SAMPLE(S) OF **Core**

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	Gold Au ppb	Gold Au oz/t
12233	65	
12234	170	
12235	15	
12236	765	
12237	625	
12238	165	
12239	>1000	0.036 (0.037, 0.034)
12240	150	
12241	1000	0.037
12242	475 (475, 475)	
12243	365	
12244	1000	0.027
12245	345	
12246	465	
12247	285	
12248	305	
12249	465	
12250	215	
12251	845	0.029
12252	355	

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	Gold Au ppb	Gold Au oz/t
12253	325	
12254	95	
12255	365	
12256	245	
12257	905	
12258	215	
12259	15 (10, 15)	

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From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm	AS ppm
0	26'						
Casing							
26'	29'9"						
Mafic to intermediate flows							
		36'6"	37'6"	1'			
		66'11"	69'6"	2'7"			
		75'	80'	5'			
		106'	109'	3'			
		109'	113'	4'			
		153'	155'	2'			
		190'6"	193'3"	2'9"			
- dark green, fine grained - chloritized, carbonated - massive to foliated - moderate quartz carbonate and carbonate stringers and veins - generally trace to 1% pyrite mineralization - at 37'2" 1/4" wide mineralized fracture 50% pyrite mineralization from 43'6" to 47'2" slightly coarser grained flow, contact at approx 30' to the c/a							

S 24-1 6 of 40

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Cu ppm	Zn ppm	As ppm
		- contact with next unit at approx 40° to the s/e									
279'9"	244'2"	Mafic Intrusive									
		- dark grey to black, fine to medium grained									
		- mafic to ultramafic intrusive dike									
		- Serpentinized fracture zones									
		- magnetic (magnetite)									
		- contact with next unit at approx 40° to the s/e									
244'2"	70'1"	Mafic to Intermediate Flow	12091	269'	273'	4'					
		- dark green, fine grained	12092	274'6"	279	4'6"					

Diamond Drill Hole Record

S 89-1 9 of 40

From (m)	To (m)	Description	Sample	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm	As ppm
		- chloritized, carbonated	12093	279'	283'	4'					
		- massive to foliated	12094	283'	288'	5'					
		- massive quartz carbonate	12095	351'	355'	4'					
		and carbonate stringers and	12096	476'	481'	5'					
		veinlets	12097	481'	486'	5'					
		- moderate quartz carbonate	12098	486'	491'	5'					
		veins	12099	491'	495'	3"	413"				
		- generally trace to 1% pyrite	12100	500	502	2'					
		mineralization	12101	524	524'	2	312"				
		- from 244' 2" to approx 247	12102	531	536	5'					
		darkest contact zone	12103	536	541	5'					
		- at 245' 3" 4" wide	12104	541	546	5'					
		silicified, carbonated	12105	546	551	5'					
		chloritized fracture	12106	551	546	5'					
		- at 246' 3" 4" wide silicified	12107	546	561	5'					

Standard Drill Hole Record

22 of 40

From (m) To (m) Description Sample From (m) To (m) Width (m) Au oz/ton Ag ppm Al ppm Cu ppm Zn ppm As ppm

- from 687' to 690'4" foliated zone, numerous minor quartz carbonate stringers, minor quartz carbonate veinlets, minor small scale folding

- from 694'8" to 697'6" foliated zone, numerous minor quartz carbonate stringers, moderate silicified, carbonatized, chloritized fractures, trace pyrite mineralization - contact with next unit at approx 60° to the c/a

12122 701' 706' 5'
 12123 706' 711' 5'

intermediate flows - dark green, fine to medium grained magnetite in places (magnetite)

S 89-1 27 of 40

Diamond Drill Hole Record

From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
<p>- context with next unit at approx. 60° to the sfa</p>								
748'6"	800'11"	Mafic to Intermediate Flow	12134	750'	752'	752'	2'	
		- dark green, fine grained	12135	752'	754'	754'	2'	
		- chloritized, carbonatized	12136	754'	756'	756'	2'	
		- massive to foliated	12137	764'	766'	766'	2'	
		- numerous inclusions (< 1/8" to 1/2")	12138	766'	769'	769'	3'	
		quartz carbonate and carbonate stringers and	12139	769'	772'	772'	3'	
		veinlets throughout	12140	772'	776'	776'	4'	
		- moderate quartz carbonate	12141	779'6"	781'6"	781'6"	2'	
		veins	12142	796'	799'	799'	3'	
		- generally trace to 1% pyrite mineralization	12143	799'	801'	801'	2'	

S 89-1 31 of 40

Diamond Drill Hole Record

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
		slightly coarser grained zone, massive									
		- at 797' 11" 8" wide mineralized zone, 50% cubic pyrite mineralization									
		- at 798' 10" 8" wide silicified, carbonatized fractured zone trace to 10% pyrite mineralization - contrast? with next unit at approx 70° to the Sca									
		800' 11" 8 1/4" Coarser-grained Matrix to Intermediate Flaw	12144	801'	802' 4"	1' 4"					
		- dark green, fine to medium grained	12145	802' 4"	804'	1' 8"					
		- magnetic in places (magnetite)	12146	804'	807'	3'					
			12147	807'	811'	3'					

S 89-1 32 of 40

Description	Sample From (m)	To (m)	Width (m)	Au cwt/ton	Ag ppm	Cu ppm	Zn ppm	As ppm
moderate width carbonate	12148	811'	814'	3'				
stronger veinlets and veins	12149	814'	817'6"	3'6"				
- Carbonatized	12150	817'6"	821'	3'6"				
- generally trace to 1%	12151	824'	824'	3'				
pyrite mineralization	12152	824'	828'	4'				
- from 802'4" to 803'9"	12153	828'	831'	3'				
sulfidized, carbonatized	12154	831'	833'8"	2'8"				
finer grained zone of 1 to 3%	12155	833'8"	837'	3'4"				
pyrite mineralization	12156	837'	839'	2'				
- at 806' 7" wide mineralized zone, 5% pyrite mineralization	12157	839'	842'6"	3'6"				
- from 811'6" to 813'7"	12158	842'6"	846'	3'6"				
finer grained zone	12159	846'	850'	4'				
- at 814 x 2" 170" wide quartz	12160	850'	854'	4'				
carbonate vein cutting c/a	12161	854'	858'	4'				
	12162	858'	860'	2'				

S 89-1

33 of 40

Diamond Drill Hole Record

Sample No (m)	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm	As ppm
	12163	860'	862'	862'				
approx 35° fractured, trace hematite stain								
	12164	862'	866'	866'				
- from 815'7" to 817'5" highly silicified carbonatized, mineralized zone, 10 to 15% disseminated band cubic pyrite mineralization								
	12165	866'	870'	870'				
- at 817'8" 2" wide carbonatized fracture								
	12166	870'	874'	874'				
- from 817'10" to 820'6" silicified carbonatized, mineralized zone, 2 to 5% pyrite mineralization								
- at 822' 5" wide silicified carbonatized fracture, quartz								

Diamond Drill Hole Record

S 89-1 38 of 40

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
		cubic pyrite mineralization									
		- from 870'2" to 874'3" foliated, highly silicified, carbonated, mineralized zone, minor small scale folding, 10 to 15% disseminated and cubic pyrite mineralization									
		- wevers contact with next unit at approx 45° to the s.e.									
874'3"	876'	Felsite to Fluorite Fluorite Floor	12167	874'	876'	2'					
		- greenish grey, fine grained	12168	876	881	5'					
		- carbonated	12169	881	886	5'					
		- well foliated	12170	886	888	2'					
		- numerous generally horizontal (1/4" to 1/2")	12171	888	892	4'					
			12172	892	896	4'					

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
		- at 308'11", 2" wide silicified carbonatized fracture;									
		- at 313'9", 1" wide silicified, carbonatized chlorotized fracture;									
		- at 314'1", 1" wide silicified, carbonatized chlorotized fracture;									
		- at 317', 6" wide magic intrusive; dark grey to black; fine to medium grained; magnetic (magnetite); carbonatized; trace to 1% pyrite mineralization.									
		- from 317'6" to 318'3", broken core;									
		- at 318'7", 2" wide silicified, carbonatized, chlorotized fracture.									
		- from 318'9" to 319'9", broken core;	1903	313'6	312'6"	5'					
		- from 319'9" to 323'2", silicified,	1904	312'6"	323'3"	4'9"					

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm	As ppm
		zone, 2 to 3% disseminated and cubic pyrite mineralization; - gradational contact with host units.								
355'6"	421'	Coarser-grained matrix to intermediate flow - dark green; fine to medium grained; - moderate quartz carbonate veinlets; - trace hematite staining; - generally trace to 1% pyrite mineralization. - at 362'9", 2" wide quartz carbonate veinlet cutting cle at approx. 50°; - at 3% pyrite mineralization in well ash near veinlet - from 367'7" to 388'8" prior to granitic zone; - at 367'11, 1" wide quartz carbonate	1908, 1909, 1910	365'6", 367'6", 370'6"		367'6" 2, 370'6" 3, 370'6" 3				

Diamond Drill Hole Record

589.2

18 of 30

From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
421' 424' 6"	421' 424' 65' 36"							

fracture; 5% pyrite mineralization in wall rock;
 - at 405', 1" wide silicified, carbonatized fracture
 10% pyrite mineralization;
 - at 405' 11", 1" wide silicified, carbonatized,
 fracture;
 - at 406' 9", 4" wide silicified, carbonatized
 carbonatized fracture; moderate hematite
 staining; 10 to 15% pyrite mineralization;
 - at 416' 8", 4" wide silicified, carbonatized
 fracture; small scale folding and faulting;
 trace pyrite mineralization;
 - broken core with contact at next unit;

1916 : 421' 424' 65' 36"
 - dense grey to black, fine to coarse grained

Diamond Drill Hole Record

589-2

190630

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
		- mafic intrusive intrusive dike									
		- magnetite (magnetite)									
		- moderate narrow quartz carbonate stringers									
		- trace to 2% pyrite mineralization									
		- uneven contact with next unit;									
424'6"	439'1"	Mafic to intermediate flow	1917	424'6"	427'	427'		2'6"			
		- dark green, fine grained	1918	427'	429'	429'		2'			
		- chloritized, carbonated	1919	429'	433'	433'		4'			
		- massive to foliated	1920	433'	436'	436'		3'			
		- numerous narrow (<1 to 3 mm) carbonate stringers with thin veins	1921	436'	439'	439'		3'			
		- moderate quartz and quartz carbonate veins	1922	439'	442'	442'		3'			
			1923	442'	446'	446'		4'			
			1924	446'	449'6"	449'6"		2'6"			

Diamond Drill Hole Record

589-2

257630

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
486' 6"	488' 8"	silicified, carbonized, chloritized, pyrochlored, mineralized zone; moderate hematite staining; 10 to 25% disseminated and cubic pyrite mineralization; - gradational contact with next unit									
489' 1"	559'	coarser-grained, mic to intermediate flow - dark green, fine to medium grained, - moderate quartz-carbonate veinlets, - trace hematite staining, - 60% quartz, trace to 10% pyrite mineralization, - at 491' 2", 3" wide silicified, carbonized, mineralized zone;	1937	489'	492'	497'	3'				
			1938	492'	495'	495'	3'				
			1939	495'	500'	500'	5'				
			1940	500'	505'	505'	5'				
			1941	505'	509'	509'	4'				
			1942	509'	512'	512'	3'				
			1943	512'	516'	516'	4'				
			1944	516'	519'	519'	3'				

Diamond Drill Hole Record

5-1-5

2 of

Description	Sample	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
Chert										
Mafic to Intermediate Flow	1001	25.9'	32'	1.3"						
- dark green		32'	37'	5'						
- chloritized		37'	42'	5'						
- massive to foliated		42'	48.6"	6.6"						
- numerous narrow (<1mm to 2mm) carbonate stringers throughout		48.6"	54'	5.6"						
- minor sideritization	1002	60'	64'	4'						
- minor quartz and quartz carbonate veins and "veinlets"	1003	64'	66'	2'						
- minor small scale bedding fault and deformation	1004	66'	69'	3'						
- generally trace to 1% pyrite mineralization										

Diamond Drill Hole Record

CS 7814-3

4 of 4

Description	Sample (m)	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm	As ppm
- trace to 1% pyrite mineralization									
- from 71'6" to 73' broken ground core probably best core									
- broken core at contact with next unit									
	1010	71' 4"	73' 4"						
Mafic to Siltstone Fluvial	1011	73' 7"	77' 4"						
- Same as above mentioned	1012	77' 30"							
- water to mineral to fluvial	1013	77' 30"	83' 3"						
- from 77' to 78'7" quartzite									
holding, contact to here									
- at 78'6" and 78'10", 1" wide quartz carbonate veinlets, up to 5% pyrite in wall rock	1014	78' 10"	78' 10"						
	1015	78' 10"	80' 5"						
	1016	80' 5"	83' 3"						
	1017	83' 3"	85' 10"						
	1018	85' 10"	87' 10"						
	1019	87' 10"	89' 10"						
	1020	89' 10"	91' 5"						

Diamond Drill Hole Record

589-3

5 of 10

To (m)	Description	Sample	From (m)	To (m)	Width (m)	Au (g/ton)	Ag (ppm)	Cu (ppm)	Zn (ppm)	As (ppm)
	- at 81', 2" wide, silicified, carbonitized, epidotized fracture cutting c/a at 35°, approx 3 to 5% pyrite mineralization	1020	110'	115'	5'					
	- at 82' 9", 3" wide silicified, carbonitized, epidotized, chloritized fracture, approx 2 to 3% pyrite mineralization	1021	115'	120'	5'					
	- at 84' 6", 3" wide silicified, carbonitized, epidotized, chloritized fracture, approx 2 to 3% pyrite mineralization	1022	120'	125'	5'					
	- from approx 111' to 130' slightly coarser grained mafic to intermediate flow, aluminum-bearing porphyritic	1023	125'	128'	3'					
	- at 127' 1/2" and 127' 3", 1" wide quartz carbonate veinlets with 2 to 3% pyrite	1024	128'	130'	2'					

- at 81', 2" wide, silicified,

carbonitized, epidotized fracture

cutting c/a at 35°, approx 3 to 5%

pyrite mineralization

- at 82' 9", 3" wide silicified

carbonitized, epidotized, chloritized

fracture, approx 2 to 3% pyrite mineralization

- at 84' 6", 3" wide silicified,

carbonitized, epidotized, chloritized

fracture, approx 2 to 3% pyrite mineralization

- from approx 111' to 130' slightly

coarser grained mafic to intermediate

flow, aluminum-bearing porphyritic

- at 127' 1/2" and 127' 3", 1" wide quartz

carbonate veinlets with 2 to 3% pyrite

Diamond Drill Hole Record

7 of 10

Description	Sample	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
6" Mafic to Intermediate Flow - Same as above mentioned mafic to intermediate flows - slightly coarser grained, approaching porphyritic - slightly magnetic (magnetite) - trace to 1% pyrite mineralization - broken core at contact with next unit	1030	157'8"	155'6"	2'10"						
7 Mafic Intrusion - dark gray to black, medium grained - mafic to ultramafic intrusive dike - magnetic (magnetite)	1031	155'6"	157'10"							

Diamond Drill Hole Record **S89-3**

12.6

From (m)	To (m)	Description	Sample	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm
- from 230' 11"	231' 7"	silicified, carbonitized, chloritized fracture; some of narrow zone throughout.	1056	237'	240'		240'	- 3'			
		2 to 5% pyrite minor oxidation.	1057	240'	245'		245'	- 5'			
		- to 233' 3" wide silicified, carbonitized, chloritized fracture; hematite stained; 5 to 10% disseminated pyrite.	1058	241'	241'		241'	- 2'			
		- at 237' 1", 4" wide silicified, chloritized, carbonitized fracture; minor hematite; 5% pyrite minor oxidation.	1059	241'	249' 6"		249' 6"	- 2' 6"			
		- at 239' 4", 3" wide quartz-carbonate-chlorite filled fracture; 5% pyrite.									
		- from 245' 3" to 246' silicified, chloritized, carbonitized, minor oxidation.									
		- gradational contact with next unit									
		241' 8" 346' : mafic to intermediate flow.									
		- dark green; very fine grained.									

force

Diamond Drill Hole Record S 89.3

139 2.6

To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm	As ppm
	non-porph. pyritic.	1060	254'6"		252'		2'6"		
	chloritized.	1061	252'		254'6"		2'6"		
	massive to foliated	1062	254'6"		257'		2'6"		
	shaly magnetic in places (magnetic) narrow (< 1 mm to 2 mm) stringers throughout.	1063	257'		261'		2'6"		
	several quartz & quartz-carbonate vein & veinlets.	1064	261'		263'		2'		
	iron ore trace to 1% pyrite mineralization throughout.	1065	263'		266'		3'		
		1066	266		271		5'		
		1067	271		276		5'		
	from 252'3" to 252'11" silicified, carbonatized, chloritized fractures 5% pyrite mineralization.	1068	276		280		4'		
	at 253'7", 6" wide silicified, carbonatized, chloritized fractures 5% pyrite mineralization.	1069	280		284		4'		
	at 253'7", 6" wide silicified, carbonatized, chloritized fractures 5% pyrite mineralization.	1070	284		289		5'		
	at 254'11", 2" wide silicified, carbonatized, chloritized fractures; 5% pyrite mineralization.	1071	289		294		5'		
	at 254'11", 2" wide silicified, carbonatized, chloritized fractures; 5% pyrite.	1072	294		299		5'		
	at 256'3", 4" wide silicified, carbonatized, chloritized fractures; 5% pyrite.	1073	299		303'3"		4'3"		
	at 256'3", 4" wide silicified, carbonatized, chloritized fractures; 5% pyrite.	1074	306		311		5'		

From (m)	To (m)	Description	Sample (m)	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm
		fracture; 3 to 5% pyrite.	1075	311'	316'	5'					
		- at 260', 3" wide silicified carbonized, chloritized shear; 5% pyrite.	1076	316	318 1/2"	2' 6"					
		- at 264' 3" 5" wide quartz carbonate vein cutting cle at approx 30°, 3 to 5% pyrite mineralization in wallrock near vein	1078	323	326	3'					
		- at 264' 10" 1" wide quartz carbonate veinlet, trace hematite, 2 to 5% pyrite mineralization in wallrock near veinlet	1080	331	336 1/2"	5' 6"					
		- at 269' 4" 2" wide silicified, carbonitized, chloritized fracture, minor hematite stain 2 to 5% pyrite mineralization in wallrock near fracture	1081	336 1/2"	341	4' 6"					
		- at 279' 7", 5" wide silicified, chloritized fracture, minor hematite stain; 1 to 2% pyrite mineralization in wallrock near fracture	1082	341	346	5'					

Diamond Drill Hole Record

S 89-3

18 of 36



From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm
		altered, more silicified zone - from 341'8" to 345'10" silicified, carbonatized, chloritized mineralized zone up to 10% pyrite mineralization (V.G.?) - gradational contact with next unit								
		Coarser-grained								
346' 373'		Porphyritic Mafic to Intermediate Flow	1083	346	351	5'				
		- Same as above mentioned mafic to intermediate flow	1084	351	356	5'				
		- slightly coarser grained, approaching porphyritic	1085	356	361	5'				
		- slightly magnetic in places (magnetite)	1086	361	367	6'				
		- moderate quartz carbonate stringers and veinlets	1087	367	373	6'				

Diamond Drill Hole Record

20 of 25

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm
		filled fracture, trace pyrite in workrock near fracture								
		- at 369' 1" wide, silicified, carbonatized, chloritized fracture, trace hematite, trace pyrite mineralization in workrock near fracture								
		- at 372' 1" 2" wide silicified, carbonatized, chloritized fracture, trace hematite stain, trace pyrite mineralization								
		- gradational contact with next unit								
373	382	Make to Intermediate Floor	1088	373	376	3'				
		- dark green, very fine grained	1089	376	379	3'				

Diamond Drill Hole Record

S89-3

26 of 36

*

From (m)	To (m)	Sample From (m)	To (m)	Width (m)	AU oz/ton	Ag ppm	Au ppm	Cu ppm
- broken core at contact with next unit;								
420'10"	425'8"	1101	420'10"	425'8"	8"	4'	10"	
- dark green;								
- fine to medium grained;								
- chloritized;								
- foliated;								
- trace to 1% pyrite.								
- from 420'10" to 422'2", silicified zone								
border. like felsic tuff unit; probable								
mix up of core;								
- from 423'9" to 424', silicified felsic								
tuff zone.								
- from 424'6" to 425', silicified felsic								
tuff zone.								

Diamond Drill Hole Record

S 89-2

27 of 36



From (m)	To (m)	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm
- broken core at contact with next unit.							
- trace to 2% pyrite.							
425'3"	501'7"	Felsic to Intermediate Flow Flow					
		1102	425'8"	430'	4'4"		
		1103	430'	435'	5'		
		1104	435'	438'	2'		
		1105	438'	439'8"	1'8"		
		1106	439'8"	440'10"	1'2"		
		1107	440'10"	446'	5'2"		
		1108	446'	452'	6'		
		1109	452'	457'	5'		
		1110	457'	462'	5'		
		1111	462'	467'	5'		
		1112	467'	470'	3'		
		1113	470'	474'	4'		

- broken core at contact with next unit.
 - trace to 2% pyrite.

425'3" 501'7" : Felsic to Intermediate ~~Flow~~ Flow

- light greenish gray;
- very fine grain;
- highly foliated;
- carbonatized, silicified, hematized;
- softer take plagioclase sericite bands
- ~~moderate~~ moderate quartz-carbonate veins, silicified;

- moderate quartz-carbonate veins, silicified and hematized;
- highly fractured and brecciated in places;
- generally trace to 1% pyrite with sericite and hematite;
- from 438'2" to 439'8" brecciated zone;

Diamond Drill Hole Record

SP113

30 g. 36

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Cu ppm	Z ppm
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501'7" 503'8" : Mafic Intrusive

- dark gray to black; medium grained;

1122 : 501'7" 502'3" 2'1"

- mafic to ultramafic intrusive like;

- magnetic (magnetite).

- trace to 2% disseminated pyrite;

- assay for platinum/palladium.

- breccia con. of contact with basal gneiss.

Coarser grained

503'8" 513'1" : ~~Partly~~ in 10' intervals 1' long 11 503'8" 509' 5'4"

- same as above medium magnetic to ultramafic

1124 509' 2'1"

flow:

- slight lgy coarser grained, also showing porphyritic;

- minor small scale faulting of deformation.

- slightly magnetic (magnetite) (10%)

- few small carbonate nodules (< 1 mm diam)

Diamond Drill Hole Record

589.3

3496 36

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
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- from 519' 1" to 519' 7" silty sand, carbonaceous

chloritized, 3 to 5% pyrite and carbonaceous

cont'd with sand matrix at approx. 50' 1" dia.

1125 513' 517' 3" 4' 3"
 1126 513' 519' 1' 9"

520' 645' Felsite to sandstone ~~Flows~~

- high proportion of

- well fine grained

- (carbonaceous)

- carbonaceous, silty, hematitic

- numerous, brown softer talc, pyrophyllite, sericite bands

- moderate to fine grained, silty sandstone

- silty

- silty

- silty

- silty

1129 516' 516' 10'

Diamond Drill Hole Record

289-3

25 of 26

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm
		- at 521' 2" 1" wide magnetite fracture	1139: 616'	621'	5'			
		- at 535' 4" 1" wide quartz vein, magnetite	1139: 621'	625'	4'			
		cutting zone size of 90'	1140: 625'	625'	10'			
		- from 543' 3" to 549' 1" trace 3" quartz	1141: 635'	645'	10'			
		concentrate returns cutting of a at approx. 80'						
		- from 529' 8" to 528' 1" silicified, carbonated zone, trace to 1% py;						
		- at 543' 6" 2" wide silicified carbonated, cemented pyrite; trace pyrite						
		- from 546' 4" to 549' 10" magnetite fragments (?)						
		- from 551' 2" to 559' 4" magnetite fragments						
		minor iron-bearing bands						
		- at 558' 6" 6" wide quartz vein, magnetite						
		parallel to c/a; 1 to 3% pyrite						

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Cu ppm	Zn ppm
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0 19' Chasing

19' 02' Micic to Intermediate Flow

- dark green, very fine grained

- chloritized

- massive to foliated

- numerous narrow (<1 to 3mm)

carbonate stringers throughout

- minor quartz and quartz carbonate veins and venter to

minor small scale folding,

and deformation

generally trace to 1% pyrite

oxidation

from 19' to 20' 3" slightly

1142	19'	24'	5'							
1143	24'	29'	5'							
1144	29'	34'	5'							
1145	34'	39'	5'							
1146	39'	44'	5'							
1147	44'	49'	5'							
1148	49'	52'	3'							
1149	52'	56'	4'							
1150	56'	61'	5'							
1151	61'	66'	5'							
1152	66'	71'	5'							
1153	71'	76'	5'							
1154	76'	81'	5'							

589-4

3 of 18

Sample	From	To	Width	Au	Ag	Au	Cu	Zn
	(m)	(m)	(m)	oz/ton	ppm	ppm	ppm	ppm
1155	81'	86'	5'					
1156	86'	92'	6'					

1" zone
 " 1" wide quartz
 veinlet cutting c/a at
 5', trace to 1% pyrite
 action in wallrock near
 '7" to 28'8" broken core,
 returned zone?
 " 2" wide quartz carbonate
 cutting c/a at approx 450',
 minor hematite stain,
 1% pyrite mineralization
 oth near veinlet
 2'4" to 55'4" numerous
 quartz carbonate stringers
 c/a at approx 30', minor

S 89-4 5 of 43

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	As ppm	Cu ppm	Zn ppm
		porphyry xenoliths								
		- numerous quartz eyes up to 5mm								
		- 1 to 2% pyrite mineralization								
		- broken core at contact with next unit								
95'10"	103'9"	Mudic to intermediate flows	1157	92'	96'	4'				
		- same as above mentioned	1158	96'	101'	5'				
		- analysis to intermediate flows	1159	101	106	5'				
		- from 101'2" to 102' fractured	1160	106	111	5'				
		- carbonatized zone these are mineralized	1161	111	116	5'				
		- at 108'9" 1" wide quartz	1162	116	121	5'				
		- carbonate matrix containing quartz at	1163	121	126	5'				
		approx 65°	1164	126	131	5'				
		- at 109'11" 2" wide silicified,	1165	131	136	5'				
			1166	136	141	5'				

S 89-4

6 of 48

From (m)	To (m)	Description	Sample	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm
		carbonatized chloritized fracture, trace 10% pyrite mineralization	1167	141	146	5'			
		in thin block near fracture	1168	146	151	5'			
		- from 116' to 118' ground core	1169	151	156	5'			
		- from 122'5" to 123'2" silicified, carbonatized, chloritized fracture, small scale faulting, trace hematite, trace to 2% pyrite mineralization	1170	156	161	5'			
		from 124' to 124'7"	1171	161	166	5'			
		- from 135'3" to 139'2" numerous minor quartz carbonate stringers trace to 20% pyrite mineralization	1172	166	171	5'			
			1173	171	176	5'			
			1174	176	181	5'			
			1175	181	186	5'			
			1176	186	191	5'			
			1177	191	196	5'			
			1178	196	201	5'			
		- from 136' to 136'9" ground core	1179	201	206	5'			
		- at 143'6" 2" wide silicified, carbonatized, chloritized fracture,	1180	206	211	5'			
			1181	211	216	5'			

S 89-4 20 of 48

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Ca ppm	Zn ppm
		- contact with next unit at approx. 80° to the c/a.								
2834	2856	Matrix Intermediate	1195	28319	28516	19"				
		- dark grey to black, medium grained								
		- matrix to ultramafic intrusive dikes								
		- magnetic (magnetite)								
		- minor hematite stain								
		- trace pyrite mineralization								
		- contact with next unit at approx 70° to the c/a								
		coarser grained								
2856	3816	Matrix Matrix to Intermediate Fluv-	1196	28516	291	5'6"				
		- dark green, fine to medium grained	1197	291	296	5'				
			1198	296	301	5'				

Blasard Drill Hole Record

S 89-4 21 of 48

From (m) To (m)

Description

Sample From (m) To (m) Width (m) Au Ag Au Cu Zn As

1199 301' 306' S' 1'

1200 306 311 S' 1'

18901 311 316 S' 1'

18902 316 321 S' 1'

18903 321 324 3' 1'

18904 324 326 2' 1'

18905 326 329 3' 1'

18906 329 332 1/2" 3 1/6"

18907 332 1/2 336 3 1/6"

18908 336 339 3' 1'

Trace hematite stain

generally carbonated

18911 4' wide silicified

carbonated, chloritoid fracture,

moderate hematite stain, trace to

1% pyrite mineralization

1% pyrite mineralization

moderate quantity carbonate stringers and veinlets

generally trace to 1% pyrite mineralization

S 89-4 24 of 48

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Al	Cu	Zn
		- from 325'2" to 326' subdivided, carbonated, mineralized zone 3 to 5% pyrite mineralization								
		- from 329' to 332'5" carbonated mineralized zone 1 to 5% pyrite mineralization								
		- at 335'5" 2" wide quartz carbonate veinlet cutting etc at approx 60°, trace pyrite mineralization in wallrock near veinlet								
		- contact with next unit at approx 90°								
331'2"	335'10"	Major to Intermediate FMs	18909	339'	343'	4'				
		- dark green, very fine grained	18910	343	347	4'				

Diamond Drill Hole Record

S 89-4 25 of 48

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Alt or Von	Ag	As	Co
		- chloritized	18911	347	350	3'			
		- massive to bedded	18912	350	353	3'			
		- numerous mineral (S to 3 mm)	18913	353	356	3'			
		carbonate stringers throughout	18914	356	358.6"	2'6"			
		- moderate quartz and quartz carbonate veins and veinlets	18915	358.6"	361.6"	2'			
		- generally trace to 1% pyrite mineralization	18916	361.6"	365'	3'6"			
		- at 339' 5" 4" wide silicified	18917	365'	368'	3'			
		carbonated fracture; trace to 1% pyrite mineralization in wall rock	18918	368'	372'	4'			
		- at 339' 5" 4" wide silicified	18919	372'	375'	3'8"			
		carbonated fracture; trace to 1% pyrite mineralization in wall rock	18920	375.6"	380.3"	4'9"			
		near fracture	18921	380'3"	384'3"	4'			
		- from 341'8" to 347'3" carbonated	18922	384'3"	388'	3'9"			
		slightly silicified zone, numerous carbonate stringers; 1 to 2% pyrite mineralization	18923	388'	392'	4'			
			18924	392'	396'	4'			

Diamond Drill Hole Record

S 89-4 29 of 48

From (ft)	To (ft)	Description	Sample From (ft)	To (ft)	Width (ft)	As	Mg	Au	Cu	Zn	As
		from 392'2" to 393' coarse sandstone									
		to 210 pyrite mineralization									
		to 355' 6" wide silicified, carbonated,									
		characterized zone; 1 to 2 1/2 ft of silicification									
		contact with hard unit of silicification									
		60' to cone axis									
		Coarser-grained									
395'10" 431'4"		Plastic mafic to intermediate (low)	18925	396'	401'	5'					
		- dark green; fine to medium grained;	18926	401'	406'	5'					
		- slightly coarse grained; low-c.	18927	406'	410'	4'					
		mantled with to impure silica (low)	18928	410'	414'	4'					
		approaching part of zone	18929	414'	418'10"	4'10"					
		- similar in character to above (mantled)	18930	418'10"	421'6"	2'8"					
		- moderate amount of coarse grained sand	18931	421'6"	424'8"	3'2"					
		mainly fine,	18932	424'8"	428'	3'4"					

589.4 32 948

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	Pb ppm
		where the following:									
		- at 419'10" 1" wide quartz, carbonate veinlet cutting some axis at approx. 65°									
		- contact with next unit at approx 55" to core axis									
		54" 454'15" Matrix 1	18933	428'	431'4"	3'					
		- double surface very fine grained;	18934	431'4"	434'6"	3'					
		- chlorite	18935	434'6"	437'6"	3'					
		- massive to foliated	18936	437'6"	441'	3'6"					
		- numerous small veins and veinlets	18939	441'							
		- massive to foliated	18938	444'	445'5"						
		- massive to foliated	18939	445'5"	447'						
		- massive to foliated	18940	447'							
		Remerged fracture	18941	449'	452'						
			18942	452'	455'	3'					

Diamond Drill Hole Record

589-4

35 of 48

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Al ppm	Fe ppm	Mn ppm	Cu ppm
		- gray's carbonate filled contact zone.							
		Cross-grained							
		434 1/2' to 510 1/2' Coarse grained Matrix to Intermediate Flow	18943	455'	450'	5'			
		- dark green fine to medium grained;	18944	450'	455'	5'			
		- dk. green coarse grained than above mentioned.	18945	455'	450'	4'			
		matrix to intermediate flow, approximately	18946	450'	452'	4'			
		cross-bedded;	18947	445'	449'	4'			
		- slightly magnetic in places (magnetic)	18948	444'	431'	4'			
		- matrix; carbonate shinnings in it	18949	431'	433 1/2"	2 1/2"			
		etc.	18950	425 1/2"	435 1/2"	2 1/2"			
		- trace hematite staining;	18951	425 1/2"	434 1/2"	2"			
		- generally carbonated;	18952	421 1/2"	491 1/2"	4'			
		- generally trace to 1% pyrite;	18953	415 1/2"	439'	5'			
		- at 460' 8" 2" wide siliceous carbonated	18954	499'	501'	4'			
		chloritized fracture; trace to 1% pyrite mineralization.	18955	501'	506'	5'			
			18956	506'	516 1/2"	4 1/2"			

Core No (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn	As
5" 548'8"	Major ... - dark green very fine grained - chloritized - massive - minor quartz carbonates stringers - generally trace to 1% pyrite minor siderite - from 529'5" to 532'9" chlorified - core containing pyrite, carbonate, siderite - known to 2 1/2 ft burite - at 509'0" pyrite carbonized, chlorified - pyrite; trace pyrite minor siderite - low stain zone at contact with next units	18963	529'5"	532'8"	3'3"					
		18964	532'8"	537'	4'4"					
		18965	537'	541'	4'					
		18966	541'	545'	4'					
		18967	545'	548'8"	3'8"					
3" 622'9"	Felsic to intermediate rock Flow - light greenish grey	18968	548'8"	556'	7'4"					
		18969	556'	566'	10'					

From (m)	To (m)	Description
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- 1 to 2% pyrite mineralization
 - contacts with host units approx. 78 to core axis

3' 682'4" felsic to intermediate ~~Flow~~ Flow

- light greenish grey
 - very fine grained
 - highly foliated

- carbonized, silicified, hematized
 - numerous narrow ~~carbonaceous~~ carbonaceous sericite bands

- minor quartz carbonate veins
 - trace to 1% pyrite mineralization

- at 646 3" 1" wide quartz carbonate alteration
 - core axis at approx. 80' trace to 1% pyrite mineralization in wall rock

- narrow contacts with host units at approx. 40' to core axis

Sample	From (m)	To (m)	Width (m)	Au	Ag	As	Cu	Zn	Pb
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18977: 622'9" 625'8" 2'11"

18978: 625'8" 636'10" 10'

18979: 636' 646' 10'

18980: 646' 656' 10'

18981: 656' 666' 10'

18982: 666' 676' 10'

18983: 676' 682' 6'

589-4

47 of 48

Handwritten notes: 589-4

Sample	From (m)	To (m)	Width (m)	cu/ton	ppm	ppm	ppm	ppm	ppm
18984	682	687	5						
18985	687	696							
18986	696	706	10						
18987	706	716	10						
18988	716	726	10						
18989	726	736	10						
18990	736	746	10						
18991	746	756	10						
18992	756	759	3						
18993	759	766	7						

From 82 to the core axis

False intermediate flow

highly bluish grey

- very fine grained

- highly foliated

- calcareous, silicified, laminated

- calcareous, silicified, laminated, often take phosphate sericite bands

- numerous narrow calcareous bands

- minor quartz carbonate veins and veins

- trace to 1% pyrite, minor arsenic

- at 729' 10", 3" wide arsenic vein

veinlets cutting core axis at approx. 45° trace pyrite in wall rock.

contacts at next unit at approximately 80 to core axis

80 to core axis

79 36

From (m)	To (m)	Description	Sample (m)	From (m)	To (m)	Width (m)	Au	Ag	Au	Cu
51'9" to 51'10" Mexico Intermediate Flow.			1213	51'8"	55'	55'	4'4"			
		- dark green very fine grained, chloritized, carbonitized	1214	55'	58'	58'	3'			
		- massive to foliated	1215	58'	61'	61'	3'			
		- numerous narrow (1 to 3mm) carbonate stringers throughout.	1216	61'	66'	66'	5'			
		- minor quartz and quartz carbonate veins and veinlets	1217	66'	69'	69'	3'			
		- minor small scale folding, faulting and deformation	1218	69'	71'10"	71'10"	2'10"			
		- generally trace to 1% minor veinlet mineralization	1219	71'10"	72'7"	72'7"	9"			
		- from 51'9" to 51'6", numerous narrow quartz carbonate stringers cutting core axis	1220	72'7"	76'	76'	3'5"			
		at approx. 40'; minor small scale deformation; 1 to 2% cubic pyrite mineralization	1221	76'	80'	80'	4'			
			1222	80'	85'	85'	5'			
			1223	85'	90'	90'	5'			
			1224	90'	95'	95'	5'			
			1225	95'	100'	100'	5'			
			1226	100'	105'	105'	5'			
			1227	105'	110'	110'	5'			

To (m)	Description	Sample (m)	From (m)	To (m)	Width (m)	Au	Ag	Zn	Cu	Fe
- from 56' 1" to 55' 10"	silicified carboniferous	1228	116'	115'	5'					
	observed fracture; 2 to 3% pyrite mineralization	1229	115'	120'	5'					
		1230	120'	125'	5'					
- at 58' 1", 2" wide carbonaceous silicified fracture; 2 to 3% cubic pyrite mineralization		1231	125'	130'	5'					
- at 56' 9", silicified carbonaceous fracture; 50 to 60% cubic pyrite mineralization		1232	130'	135'	5'					
		1233	135'	140'	5'					
		1234	140'	145'	5'					
		1235	145'	150'	5'					
- at 59' 3", 4" wide quartz carbonate fracture; minor hematite stain; 1 to 2% pyrite in well rock near fracture.		1236	150'	155'	5'					
		1237	155'	160'	5'					
		1238	160'	165'	5'					
		1239	165'	168' 9"	3' 7"					
- from 58' 1" to 60' 1", slightly pyrite carbonate mineralization; 1 to 2% pyrite mineralization.		1240	168' 9"	169' 11"	1' 4" (major vein)					
		1241	169' 11"	175'	5' 1"					
- from 62' to 62' 8", fine grained massive flow;		1242	175'	179'	4'					
		1243	179'	182' 10"	3' 10"					

Diamond Drill Hole Record

539.5

16935

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn	As
		from 168'2" to 169'5" matrix infusible									
		at 169'11" 2" wide carbonitized contact zone									
		from 169'11" to 182'10" numerous narrow carbonite stringers and matrix, selected carbonitized chloritized fractures trace to 2% pyrite mineralization.									
		contact with next unit approximately 45° to core axis									
		coarser-grained									
0. 192'6"		Part of tie to bottom of hole (Fig. 1)									
		- dark green, fine to medium grained	1244	182'10"	186'	5'2"					
		- minor quartz carbonate stringers and veinlets.	1245	188'	192'6"	4'6"					

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm	Pb ppm
		- trace to 1% pyrite mineralization, - contact with host zone at approx. 40 to 42.								
16'	200' 10"	Magic to Intermediate Flow - dark green very fine grained. - chloritized, carbonatized, - massive to foliated, - numerous narrow (1 to 3 mm) carbonate stringers throughout, - trace to 1% pyrite mineralization - contact with host zone at approx. - Sgs to core axis.	1246	152' 6"	196'	3' 6"				
			1247	196'	201' 4"	5' 4"				
00' 10'	265' 1"	Coarse-grained Magic to Intermediate Flow - dark green fine to medium grained,	1248	201' 4"	204' 2"	3"				
			1249	204' 4"	207' 1"	2' 8"				

From (m)	To (m)	Description	Sample (m)	From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn
			(m)	(m)	(m)	or/ton	ppm	ppb	ppm	ppm	ppm
		microlite									
		- gradational contact with sand unit.									
51' 1"	464' 9"	Mitic to intermediate Fluv	1265	265'	268'	3'					
		- dark green very fine grained;	1265	268'	271'	3'					
		- chloritized, carbonitized,	1269	271'	274'	3'					
		- massive to foliated,	1268	274'	277'	3'					
		- numerous narrow (1 to 3mm) carbonate	1269	277'	282' 6"	5' 6"					
		stringers throughout.	1270	282' 6"	284' 6"	2"					
		- moderate quartz and quartz carbonate	1271	284' 6"	290'	5' 6"					
		veins and veinlets;	1271	290'	294'	4'					
		- generally 1 to 2% pyrite microlite in	1273	294'	297'	3'					
		- from 265' 9" to 276' 10", highly	1274	297'	300'	3'					
		carbonitized, slightly siliceous chlorite	1275	300'	303'	3'					
		zone, generally minor to moderate hematite	1276	303'	306'	3'					

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	As	Ag	Au	Cu	Zn	Pb
		stark; moderate quartz carbonate veins;	1279	306'	309'	3'					
		trace to 1% pyrite mineralization;	1278	309'	314'	5'					
		- at 274' 9", 1" wide quartz carbonate	1279	314'	319'	5'					
		veinlet cutting c/a at 45°; 2 to 3%	1280	319'	324'	5'					
		pyrite mineralization in wall rock;	1281	324'	329'	4'					
		- from 295' to 299', highly carbonated,	1282	328'	331'	3'					
		hematite, cherty siliceous, chlorotite,	1283	331'	336'	5'					
		minor chert zone; 50 to 15% disseminated	1284	336'	341'	5'					
		pyrite mineralization.	1285	341'	345'	4'					
		- from 283' 5" to 284' 2", siliceous, carbonated,	1286	345'	349'	3'					
		siliceous mineralized zone; 50 to 15%	1287	348'	351'	3'					
		disseminated and coarse pyrite	1288	351'	354'	3'					
		mineralization.	1289	354'	357'	3'					
		- from 291' 6" to 292' 6", siliceous, carbonated	1290	357'	360'	3'					
		chlorated zone; 1 to 3% pyrite mineralization	1291	360'	362' 6"	2' 6"					

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Area sq/ft	Wt ppm	Area ppm	Cu ppm
		- at 295'3", 4" wide quartz vein cutting core axis at approx. 40'; 5 to 15% pyrite in wall rock near vein;	1292	362'6"	364'6"	2'1"			
			1293	364'6"	367'	2'6"			
			1294	367'1"	370'	3'			
		- at 296', 3" wide quartz carbonate veinlet cutting core axis at approx. 45'; 2 to 15% pyrite in wall rock;	1295	370'	372'6"	2'6"			
			1296	372'6"	375'6"	3'			
			1297	375'6"	378'	2'6"			
		- from 296'3" to 308', numerous narrow quartz carbonate stringers; 1 to 3% pyrite mineralization;	1298	378'	381'	3'			
			1299	381'	384'	3'			
			1300	384'	386'	2'			
		- from 300'2" to 300'11", calc. veinlet carbonate; fresh, unaltered hematite stain; 1 to 2% pyrite mineralization;	1301	386'	389'	3'			
			1302	389'	391'	2'			
			1303	391'	396'	5'			
		- at 301'5" to 301'11", calc. veinlet carbonate veinlet cutting core at approx. 50'; 2 to 3% pyrite mineralization in wall rock	1304	396'	401'	5'			
			1305	401'	406'	5'			
			1306	406'	411'	5'			

No (m)	Description	Sample		Width (m)	Au oz/ton	Ag ppm	Cu ppm	Pb ppm	Zn ppm
		From (m)	To (m)						
	minerals, unsorted stream, minor small scale	1346	60' 63' 3'						
	plaster, ...	1347	63' 66' 3'						
	25 20' 10' 15' well ...	1348	66' 71' 5'						
	charitaged fracture; minor hematite stain;	1349	71' 76' 5'						
	near to 1/16 bits mineralization on wall	1350	76' 81' 5'						
	rock near fracture	1351	81' 86' 5'						
	- 25 22' 3' 5' wide siliceous, carbonated	1352	82' 91' 5'						
	chloritized fracture; trace to 1% barite	1353	91' 95' 4'						
	mineralization.	1354	95' 99' 5'						
	- from 26' 3" to 35' 5" siliceous carbonated	1355	99' 104' 5'						
	zone, numerous narrow carbonated	1356	104' 109' 5'						
	trace to 1% pyrite mineralization	1357	109' 114' 5'						
	- from 36' 2" 4" wide siliceous carbonated	1358	114' 119' 5'						
	fracture; trace to 1% pyrite mineralization	1359	119' 124' 5'						
	- from 39' 8" to 39' 6" siliceous carbonated	1360	124' 129' 5'						

Diamond Drill Hole Record

S 89-6 14 of 66

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn	As
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- Analytic ~~to~~ ~~the~~ ~~intensive~~
 - ~~dike~~
 - magnetic (magnetite)
 - minor quartz carbonate
 - stringers
 - trace to 1% pyrite mineralization
 - contact with next unit at
 approx 60° to the c/a

1364	141'11"	143'10"	1'11"								
1365	143'10"	149'	5'12"								
1366	149	151	2'								
1367	151	156	5'								

310" 145'11" ~~Starker ground Major to Intermediate Flatt~~
 - dark green, fine to medium grained to fine
 - minor quartz carbonate
 - veinlets
 - trace hematite stain
 - carbonatized

Diamond Drill Hole Record

S 99-6 17 of 66

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Cu ppm	Zn ppm	As ppm
		- at 158'9" 2" wide silicified, carbonatized chloritized fracture,	1380	216'	221'	5'					
		1 to 2% pyrite mineralization	1381	221'	226'	5'					
		- at 159'6" 1" wide silicified, carbonatized chloritized fracture,	1382	226'	231'	5'					
		Trace to 9% pyrite mineralization	1383	231'	236'	5'					
		- at 162'7" 4" wide silicified, carbonatized chloritized fracture,	1384	236'	241'	5'					
		Trace to 9% pyrite mineralization	1385	241'	246'	5'					
		- at 162'7" 4" wide silicified, carbonatized chloritized fracture,	1386	246'	251'	5'					
		1 to 2% pyrite mineralization	1387	251'	256'	5'					
		- at 166'11" 8" wide silicified, carbonatized chloritized fracture,	1388	256'	261'	5'					
		Trace to 1% pyrite mineralization	1389	261'	266'	5'					
		- at 173'11" 1" wide silicified, carbonatized chloritized fracture,	1390	266'	271'	5'					
		Trace to 1% pyrite mineralization	1391	271'	276'	5'					
		- at 173'11" 1" wide silicified, carbonatized chloritized fracture,	1392	276'	281'	5'					
		Trace to 9% pyrite mineralization	1393	281'	286'	5'					
			1394	286'	291'	5'					

Diamond Drill Hole Record

S 89-6 18 of 66

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Alt or/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm
		- at 176'8" 2" wide silicified, carbonized, chloritized fracture, trace to 1% pyrite mineralization	1295	291	205	5'				
		- from 181'9" to 182'6" silicified carbonized zone, trace to 1% pyrite mineralization	1297	301	305	5'				
		- at 183' 1" silicified, carbonized chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1388	500	215	5'				
		- at 187'5" 2" wide silicified, carbonized, chloritized fracture, trace pyrite mineralization	1399	205	337	2'3"				
		- at 188' 2" wide silicified carbonized, chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1400	316	225	5'				
		- at 187'5" 2" wide silicified, carbonized, chloritized fracture, trace pyrite mineralization	1701	325	300	5'				
		- at 183' 1" silicified, carbonized chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1702	320	331	5'				
		- at 187'5" 2" wide silicified, carbonized, chloritized fracture, trace pyrite mineralization	1703	301	335	4'				
		- at 188' 2" wide silicified carbonized, chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1704	205	337	2'				
		- at 187'5" 2" wide silicified, carbonized, chloritized fracture, trace pyrite mineralization	1705	337	339	3"				
		- at 188' 2" wide silicified carbonized, chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1706	339	341	8"				
		- at 188' 2" wide silicified carbonized, chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1707	341	344	1"				
		- at 188' 2" wide silicified carbonized, chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1708	344	349	5'				
		- at 188' 2" wide silicified carbonized, chloritized fracture, trace to 1% pyrite mineralization in wall rock near fracture	1709	349	352	3'				

Diamond Drill Hole Record

S 89-6 33 of 66

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm
		and cubic pyrite mineralization							
		- at 364' 1" 3" wide slightly							
		coarser grained porphyritic zone							
		2 to 3% pyrite mineralization							
		- from 365' 4" to 366' 4" silicified							
		carbonatized, chloritized zone trace							
		hemite stain, trace pyrite							
		mineralization							
		silicified contact with next							
		veins							
		silicified vein to Antimonial Fluoride	1713	365' 5"	368' 6"	374'	5' 16"		
		silicified vein to medium grained	1714	368' 6"	374'	5' 16"			
		silicified vein to carbonate	1715	374'	379'	5'			
		silicified veins and veins	1716	379'	384'	5'			

Diamond Drill Hole Record

S 89-6 34 of 66

Sample	From (m)	To (m)	Width (m)	All	Mg	All	Ca	Zn	As
				oz/ton	ppm	ppb	ppm	ppm	ppm

From (m)	To (m)	Description	
1714	284'	391'	7'
1718	391'	396'	5'
1719	396'	406'	5'
1720	401'	406'	5'
1721	406'	415'	5'
1722	415'	414'	3'
1723	414'	419'	3'6"

- trace hematite stain

- carbonstained

- generally trace to 1% pyrite

- generally trace to 1% pyrite

- at 366' 4" 3" wide silicified;

carbonstained patch, trace pyrite

mineralization

- at 367' 8" 4" wide silicified;

carbonstained, chloritoid fracture,

trace pyrite, mineralization

- at 372' 11" 4" wide silicified

carbonstained fracture, trace pyrite

mineralization

- at 374' 8" 2" wide silicified, carbonstained

fracture, minor hematite stain, trace ls

From (m)	To (m)	Description	From (m)	To (m)	Width (m)	Au	Ag	As	Cu	Zn	Pb
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- at 413'4", 3" wide crushed carbonized fracture, minor hematite stain; trace pyrite mineralization.

- at 413'9" 1" wide sulfidated, carbonized fracture, hematite hematite stain, trace pyrite mineralization.

- at 414'4", 3" wide - sulfidated, carbonized mineralized zone; also 15% disseminated and calcite matrix mineralization; - gradational contact with next unit.

19'11" 438'2"	417'6"	419'6"	2'	19'24	417'6"	419'6"					
				19'25	419'6"	423'		3'6"			
				19'26	423'	429'		4'			
				19'27	429'	430'9"		3'9"			

19'11" 438'2" Melic to Intermediate Flow.
 - dark green very fine grained,
 - chloritoid, carbonized,
 - was slide in polished.

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppb	Cu ppm	Zn ppm	As ppm
		stem, 10 to 40% disseminated and cubic pyrite mineralization;									
		- from 435' to 437' 3", chiselled, carbonated mineralized zone; 5 to 15% disseminated and cubic pyrite;									
		- at 436' 5", 5" wide quartz carbonate vein containing c/a 21 sphencic matrix 52% - gradational contact with host unit.									
438' 21"	466' 5"	Coarser-grained Matrix 1.5 lower matrix flow.	1730	438'	443' 5"						
		- dark green, fine to medium grained;	1731	443'	446' 3"						
		- moderate grain's carbonate mineralite	1732	446'	448' 6"	2' 6"					
		- trace hematite staining.	1733	448' 6"	453' 4' 6"						
		- carbon stained	1734	453'	459' 6"						
		- generally trace to 1% pyrite mineralization.	1735	459'	462' 3"						

Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Cu	Zn	As
Small scale gold and pyrite	1737	469	476	3				
hematite + siliceous	1738	469	476	7				(3'6" muscovite core)
pyrite hematite stain	1739	476	478	2				
pyrite hematite stain	1740	478	482	4				
pyrite hematite stain	1741	482	486	4				
pyrite hematite stain	1742	486	491	5				
pyrite hematite stain	1743	491	496	5				
at 466' 7" 4" wide siliceous	1744	491	500	4				
carbonated, chloritized fracture	1745	500	503	3				
trace hematite stain, 3 to 5%	1746	503	508	5				
pyrite mineralization	1747	508	511	3				
at 478' 1" 5" wide siliceous	1748	511	513	2				
carbonated, chloritized fracture	1749	513	516	3				
pyrite hematite stain, 2 to 3%	1750	516	519	3				
pyrite mineralization	1751	519	522	3				
at 478' 9" 2" wide quartz, veinlet	1752	522	526	4				

S 29-6 49 of 66

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn
		- at 522'4" 5" wide siliceous carbonized chloritized fracture 3 to 5% cubic pyrite inclusions								
		- at 524'4" 15" wide quartz carbonate vein cutting core axis at approx 60°, minor hematite stain, 1 to 2% pyrite inclusions in weathered zone vein								
		- gradational contact with next unit								
5258'56"		Coarser-grained Mafic to Intermediate Flow	1753	526'	529'	3'				
		- dark green; fine to medium grained;	1754	529'	534'	5'				
		- moderate quartz carbonate veinlets;	1755	534'	538'2"	4'3"				
		- moderate narrow carbonate stringers;	1756	538'2"	544'	2'9"				

No (m)	Description	Sample		Au oz/ton	Ag ppm	Au ppb	Cu ppm	Sn ppm	As ppm
		From (m)	To (m)						
	- carbonized	1757	541' 545'	4'					
	- generally free to 1% pyrite mineralization	1758	545' 547'	2'					
	- from 524' to 529' 2 1/2' finer grained zone, - trace to 1% pyrite mineralization.	1759	547' 549' 6"	2 1/2'					
	- at 528' 5", 2" wide quartz carbonate veinlet cutting one axis at approx 60°, 30 to 15% cube and disseminated pyrite in wall rock near veinlet.	1760	549' 6" 554' 6"	5'					
	- from 538' 3" to 545' 2", finer grained zone generally 1 to 2% pyrite mineralization.	1761	550' 6" 559'	2 1/4'					
	- at 538' 9", 6" wide silicified, carbonated fracture; moderate hematite staining; 5 to 15% disseminated and cube pyrite mineralization;	1763	559' 566'	7'					
	- at 545' 8", 2" wide quartz carbonate	1764	566' 570'	4'					

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	As	Cu	Zn	Pb	
		- 25 555' 1", 6" wide silicified, carbonized fracture; 3 to 5% disseminated and cubic pyrite;										
		- 25 558' 3", 3" wide silicified, carbonized fracture; 10 to 15% disseminated pyrite;										
		- from 562' 2" to 569' brecciated zone; highly fractured zone;										
		- brecciated zone at contact with next unit.										
591	594'	Matrix to interstratification of clay;	1765:	570'	576'	6'						
		- dark green, fine grained;	1766:	576'	581'	5'						
		- chloritized, carbonized;	1767:	581'	586'	5'						
		- massive to foliated;	1768:	586'	589'	3'						
		- moderate narrow (1 to 3 mm) carbonate stringers thin clay;	1769:	589'	592'	3'						
			1770:	592'	594'	2'						

Diamond Drill Hole Record

589-6

640.66

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn	Pb	Fe
		- contact with next unit at approximately 630 to core axis										
6747"	6822"	felsic holite intermediate tuff - light greenish gray to pink; fine grained; - silicified; darkened; - well foliated; - minor quartz carbonate vesicles; - trace to 1% pyrite mineralization; - at 6745" 1" wide quartz carbonate vesicle containing cl ₂ at approx. 80% trace pyrite; mineralization in wall rock; - from 6813" to 6822" homotized zone; - broken core at contact with next unit	1794	6747"	678'8"	3' 11"						
			1795	678'6"	682'2"	3' 8"						

Diamond Drill Hole Record

S 89-6

657.66

From (m)	To (m)	Width (m)	Alt	Ag	Au	Cu	Zn	Pb
682.21	686.54							
<p>Megric Intrusive</p> <p>- dark grey to black fine to medium grained; quartzed;</p> <p>- megric intrusive intrusive dikes;</p> <p>- magnetite (magnetite)</p> <p>- main narrow carbonate stringers</p> <p>- carbonated; 1 to 2% pyrite inclusions</p> <p>- contact with next unit at 20° to core axis</p>								
686.54	705							
<p>Felsic to intermediate Flow Flow</p> <p>- light greenish grey to pink fine grained;</p> <p>- subdivided and laminated</p> <p>- small foliated</p> <p>- minor quartz calcareous vesicles</p>								
397	686.54	695	8.17"					
498	695	705	1.0'					

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Cu ppm	Zn ppm
152' 10"	184' 11"	Coarse grained Mxite to Intermediate flow - dark green; fine to medium grained, - minor quartz carbonate veils - trace hematite stain; - carbonated; - generally trace to 1% pyrite mineralization - from 165' 3" to 166' 10" slightly mineralized zone; minor small scale faulting; minor hematite stain. 1% to 3% disseminated pyrite mineralization. - at 176' 10" wide chloritized chloritized fracture, hematite stain, trace pyrite mineralization. - gradational contact between units	1799	174'	186' 6"	2' 6"			
			1800	165'	167'	2'			
			1801	176'	179'	1'			

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Al (wt%)	Ag (ppm)	Au (ppm)	Cu (ppm)	Zn (ppm)	P (ppm)
181' 1"	214' 2"	Megric to Intermediate Flaw;									
		- dark green; fine grained;									
		- chloritized, carbonatized;									
		- massive to fractured;									
		- numerous cracks (< 1 to 3mm) carbonate stringers throughout;									
		- nodular quartz and quartz carbonate veins and veinlets;									
		- generally trace to 1% pyrite microplystom;									
		- 25 181' 9", 2" wide silicified, carbonatized chloritized fracture; 3 to 5% pyrite microplystom;	1802	181'	183'			2'			
		microplystom;	1803	183'	186'			3'			
		- 25 186' 8", 5" wide silicified carbonatized fracture; 15 to 20% disseminated and cubic pyrite microplystom;	1804	186'	188'			2'			
			1805	188'	190'			2'			
			1806	190'	192'			2'			
			1807	192'	195' 6"			3' 6"			

Diamond Drill Hole Record 589-7

11 of 37

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppb	Cu ppm	Zn ppm
		- at 187' 2", 3' wide schistoid, carbonized fracture; moderate hematite stain; 10 to 15% pyrite mineralization.	1808:	195' 6"	197' 6"	2'				
		- at 188' 5", 8" wide quartz vein cutting core axis at approx. 60°, 10 to 15% pyrite mineralization in wall rock near veinlet;	1811:	204' 6"	206' 19"	2' 11"				
		- at 191' 2" via schistoid carbonized, chlorotopa fracture; 15 to 20% disseminated and cubic pyrite mineralization;	1812:	206' 7"	209' 6"	2' 11"				
		- at 197' 2" 1" wide quartz carbonate veinlet	1813:	209' 6"	213' 3' 6"					
		- at 198' 2" 6" wide schistoid carbonized mineralized zone; 30 to 40% disseminated pyrite mineralization;	1814:	213'	216' 3'					
		- from 205' 5" to 206' 7", very dark green	1815:	216'	219' 6"	1' 6"				

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn
			(m)	(m)	(m)	oz/ton	ppm	ppb	ppm	ppm
		near fracture.								
		- at 229' 11", 10" wide slickfield, carbon stained zone; trace lamellar stain; trace pyrite mineralization.								
		- at 234' 8", 2" wide slickfield, carbon stained fracture; trace pyrite mineralization.								
		- gradation of contact with next unit								
236" 334"		Moyle to Intermediate Flow	1820'	236'	240'	4'				
		- zone very fine grained.	1821'	240'	242'	242'				
		- zone carbon stained.	1822'	242'	244'	244'				
		- massive to foliated.	1823'	244'	247'	247'				
		- zone (1 to 3 mm) carbon stained	1824'	247'	249'	249'				
		- zone (1 to 3 mm) carbon stained	1825'	249'	252'	252'				

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppb	Cu ppm	Zn ppm	As ppm
		carbonatized mineralized zone: 10% disseminated and cubic pyrite mineralization;	1841: 302'	304'	2'						
		- at 299'5" 2" wide silicified, carbonatized.	1842: 302'	306' 2'							
		chloritized fracture, worn karstite streak, trace to 1% pyrite mineralization;	1843: 306'	309 3'							
		- at 299'10" 11" wide silicified;	1844: 309'	312' 3'							
		carbonatized, chloritized mineralized zone 5 to 10% disseminated and cubic pyrite mineralization	1845: 312'	317' 5'							
		- at 250'10" 11" wide silicified;	1846: 317'	319' 2'							
		carbonatized, chloritized mineralized zone 5 to 10% disseminated and cubic pyrite mineralization	1847: 319'	321' 2'							
		- at 253'11" 5" wide silicified;	1848: 321'	325' 4'							
		carbonatized fracture with trace pyrite mineralization	1849: 325'	327' 2'							
		- at 255'3" 2" wide silicified;	1850: 327'	329' 2'							
		carbonatized fracture with trace pyrite mineralization	1851: 329'	331' 2'							
		carbonatized fracture, trace pyrite mineralization	1852: 331'	334' 3'							
		mineralization	1853: 334' 3'	338' 11"							

From (m)	To (m)	Width (m)	Mu	Ag	Au	Cu	Zn	Pb
- intercept the next unit at approximately 45' to core axis.								
343'5"	349'5"	339'	343'5"	349'	349'	4'9"		
343'5" Coarse-grained Mypic to Intermediate Flow - dark green; fine to medium grained; - minor vertical carbonate stringers; - carbonated; - generally trace to 1% pyrite microinclusions; - contact with next unit at approximately 60' to core axis.								
343'5"	370'3"	1855	343'5"	347'	347'	317"		
343'5" Mypic to Intermediate Flow; - dark green; fine grained; - slightly carbonated; - chloritoid; carbonated.								
1856	347'	350'	350'	3'				
1857	350'	352'	352'	2'6"				
1858	352'6"	355'	355'	2'6"				

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au or/ton	Ag ppm	Cu ppm	Zn ppm	Pb ppm
411.3"	464.10"	Mafic to Intermediate Flow	1877	435'	414' 4"	3' 4"				
		- dark green; fine to medium grained;	1878	414' 4"	419'	4' 8"				
		- chloritized, carbonatized,	1879	415'	424'	5'				
		- massive to foliated,	1880	424'	426'	2'				
		- numerous narrow (< 1 to 3 mm) carbonates;	1881	426'	430'	4'				
		Stringers throughout,	1882	430'	433' 6"	3' 6"				
		- moderate quartz and quartz carbonate veins;	1883	433' 6"	437' 1"	3' 6"				
		- generally trace to 1% pyrite;	1884	437' 1"	440'	3'				
		- 455' 5" 5" wide silicified, carbonatized	1885	440'	443'	3'				
		chloritized, silicified, mineralized	1886	443'	446'	3'				
		contact zone, 10 to 15% disseminated	1887	446'	449' 6"	1' 6"				
		small coarse pyrite	1888	449' 6"	451'	2' 6"				
		pyrite veins to 414' 3", silicified,	1889	451'	456'	5'				
		chloritized, chloritized fresh road	1890	456'	461'	5'				
			1891	461'	465'	4'				

S 89-8 7 of 39

From (m)	To (m)	Description	Sample (m)	From (m)	To (m)	Mudch (m)	Au ppm	Ag ppm	Cu ppm	Zn ppm	As ppm
		- contact with next unit at approx 57° to the SW									
107'7"	113'8"	Coarser-grained Mafic to Intermediate Flow - dark green, fine grained - slightly carbonated - massive - negligible carbonate stringers - trace pyrite mineralization - contact with next unit at approx. 45° to the SW									
113'8"	180'	Mafic to Intermediate Flow - dark green, fine grained - chloritized, carbonated	12177	166'	169'	3'					
			12178	169'	171'	2'					
			12179	171'	173'	2'					

S 89-8 12 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	As	Cu	Bi	Pb
		- at 188' 6" 191' 6" silicified carbonated chloritized fracture									
		10 to 187' 191' 6" silicified fracture									
		- oxidation contact with next unit									
191' 5"	256' 4"	Mafic to Intermediate Flow	12187	196'	198'	21					
		- dark green, fine grained	12188	198'	200'	21					
		- chloritized, carbonitized	12189	200'	202' 6"	216"					
		- foliated to massive	12190	202' 6"	205'	216"					
		- numerous quartz carbonate stringers and veinlets	12191	205'	209' 6"	416"					
		- generally trace to 1% pyrite sulfidation	12192	209' 6'	211'	116"					
		- from 198' 1" to 202' 5"	12193	211'	215'	41'					
			12194	215'	219'	41'					
			12195	219'	222' 6"	316"					

S 89-8 16 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	As of/Con	Ag ppm	Al ppm	Ca ppm	Si ppm	Fe ppm	Mn ppm	Pb ppm
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quantity carbonate vein cutting

1/8" at approx 80°
 at 75.16 3" wide quantity
 carbonate vein cutting sp act

approx 80°
 - shortest with next unit
 at approx 73° to the gra

256'4" - 278'7" Coarser-grained Mafic to Intermediate Fels

- dark green, fine to medium
 grained

- chloritized, carbonatized

- massive

- minor quantity carbonate
 stringers and veinlets

12208	256'2	262	510"
12209	274	278'6	416"

S 89-8 17 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Sn	As
			(m)	(m)	(m)	oz/ton	ppm	ppb	ppm	ppm	ppm
		Trace pyrite mineralization									
		- at 266' 1" wide carbonatized, chloritized zone									
		- at 279' 3" 3" wide siliceous, carbonatized, chloritized fracture									
		- at 231' 2" wide carbonatized, chloritized zone									
		- at 223' 8" 5" wide carbonatized, chloritized zone									
		- at 275' 1" 1" wide siliceous, carbonatized fracture									
		- contact with next unit at approx 470 to the c/a									
278' 7"	304' 7"	Mats to Intermediate Flows	1210	278' 6"	281' 6"					3'	

S 89-8

21 of 39

From (m)	To (m)	Sample From (m)	To (m)	Notes	Grain Size	Color	Other
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at approx 58', 10 to 15% ~~...~~ veinlet cutting c/a

at approx 75' 1" wide quartz

at approx 75' 1" wide siliceous, calcarenated fracture moderate

hematite stain 10 to 15% pyrite mineralization

- gradational contact with next unit

304' 1" 308' 1" Coarser-grained Mfic to Intermediate Flour

12219

304' 8" 308' 3' 4"

S 89-8 22 of 39

From (m)	To (m)	Description	Interval (m)	Weight (m)	As/pen (ppm)	Pb (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)
		- dark green, fine to medium grained	310.1	315.1	5.1				
		- blaiting, carbonated	326.1	328.6	2.6				
		- measure	328.6	330.1	1.6				
		- numerous quartz carbonate stringers and veinlets throughout	346	348.6	2.6				
		- generally trace to 1/2" sparse mineralization	365	366.9	1.9				
		- from 321.7" to 324.6"							
		< slightly fractured zone, quartz carbonate filled fractures throughout zone							
		- at 325.3" 4" wide fractured, brecciated zone,							

S 89-8 25 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Alt on/cont ppm	Ag ppm	Al ppm	Ca ppm	Zn ppm	Ns ppm
366'9"	397'	Mafic to Intermediate Flow	12226		366'9"		368'9"		370'3"		2'
		- dark green, fine grained	12227		368'9"		370'3"		371'9"		1'6"
		- chloritized carbonated	12228		370'3"		371'9"		373'6"		1'9"
		- massive to fine grained	12229		371'9"		373'6"		375'		1'6"
		- somewhat quartz calcareate	12230		373'6"		375'		378'		3'
		- stringer calc. veinlets	12231		375'		378'		380'		2'
		- moderate quartz calcareate veins	12232		378'		380'		382'		2'
		- generally trace to 1% pyrite mineralization	12233		380'		382'		384'		2'
		- at 366'9" 2" wide silicified	12234		382'		384'		388'6"		4'6"
		- carbonated fracture	12235		384'		388'6"		390'3"		3'9"
		- at 368'10" 1" wide	12236		388'6"		390'3"		393'		3'9"
		quartz calcareate veinlet cutting c/a at approx 80°	12237		390'3"		393'		395'		2'
			12238		393'		395'		397'3"		2'3"
			12239		395'		397'3"				

Diamond Drill Hole Record

S 89-8 38 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn	Mn
		core									
		- at 396' 11" 1" wide silicified calcareous, mineralized contact zone, 15 to 25% disseminated pyrite mineralization									
		- contact with next unit at approx 60° to the SW									
397'	428'	Feldspar Porphyry	12240	397'3"	401'6"	4'3"					
		- white to pink, coarse grained	12241	401'6"	407'6"	6'					
		- quantity K-feldspar, plagioclase rich acidic intrusion	12242	407'6"	408'9"	1'3"					
		- numerous quartz carbonate veinlets	12243	408'9"	411'	2'3"					
			12244	411'	414'4"	3'4"					
			12245	414'4"	415'5"	1'1"					
		- negligible mafic minerals	12246	415'5"	417'6"	2'1"					

S 89-8 36 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	cu/ton	ppm	ppm	ppm	ppm	ppm	ppm
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- contact with next unit at

approx 52° to the s/e

440'9" 446'6" Intermediate Flow 12258 441 444 31

- greenish grey, fine grained 12259 444 446'6" 216"

- dark grey to black

- well pitted

- moderate narrow (1/4" to 1/2")

softer like playdough,

venicite bands

- trace to 2% pyrite inclusions

- contact with next unit

at approx 54° to the s/e

446'6" 465 Mafic Intrusion

- dark grey to black, fine

S 31-1 2 of 11

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au	Ag	Au	Cu	Zn	As
(m)	(m)		(m)	(m)	(m)	g/ton	ppm	ppb	ppm	ppm	ppm
		- from 144'1" to 144'8" interbedded intermediate talchaceous material and siliceous argillaceous? material									
		- contact with next unit at approx 650 to the core axis									
144'8	196	Intermediate Fl. - grey to greenish grey fine grained carbonatized massive to foliated - minor narrow carbonate stringers < 1/8"	12024	145	150	150	5'				
			12025	150	160	160	10'				
			12026	160	164	164	4'				
			12027	164	170	170	6'				
			12028	170	175	175	5'				
			12029	175	186	186	11'				
			12030	186	196	196	10'				

Diamond Drill Hole Record 589-11

808 49

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Cu ppm	Zn ppm	As ppm
		- from 100'5" to 105'9", highly fractured zone; ground cone; pyrite, 2' massive core;									
		- from 107'4" to 108'5", highly fractured barren, overland cone;									
		- from 112'2" to 114'9", highly fractured barren ground cone;									
		- barren cone at contact with waste unit									
		120'2" 546'9" Mexico (intermediate flow)	1953	389'	393'						
		- green to olive green, fine grained;	1954	393'	398'						
		- chloritized, carbonitized;	1955	398'	403'						
		= massive to pitted,	1956	438'	443'						
		- numerous narrow (< 1/2 mm) carbonite	1957	460'	463'						

Diamond Drill Hole Record

S 809 - 11

909 49

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	As ppm	Cu ppm	Zn ppm	As ppm
		shungite mineralization	1958	453	466	3'					
		- moderate amount of shungite mineralization	1959	466	468	2'					
		- trace to 1% pyrite mineralization	1960	468	473	5'					
		- at 120' 2" 2" wide silicified carbonated, chloritized fracture, trace pyrite mineralization	1961	510	513	3'					
		- at 125' 7" wide silicified, carbonated, chloritized fracture	1962	513	516	3'					
		- at 125' 7" wide silicified, carbonated, chloritized fracture, trace to 1% pyrite mineralization	1963	516	520	4'					
		- at 126' 1" wide silicified, carbonated fracture	1964	520	524	4'					
		- at 126' 1" wide silicified, carbonated, chloritized fracture, trace to 1% pyrite mineralization	1965	524	527	3'					
		- at 126' 1" wide silicified, carbonated fracture	1966	527	530	3'					
		- at 126' 1" wide silicified, carbonated fracture	1967	530	533	3'					
		- at 126' 9" 8" wide silicified, carbonated fracture	1968	533	536	3'					
		- at 126' 9" 8" wide silicified, carbonated, chloritized fracture, minor hematite stain, 1 to 2% pyrite mineralization	1969	536	538	2'					
			1970	538	540' 9" 2' 9"						

From (m)	To (m)	Description	Sample (m)	From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Ca ppm	Zn ppm	As ppm
540'9"	544	Porphyritic Flow - dark brownish green, fine grained - numerous feldspar phenocrysts throughout zone - phenocrysts up to 1/4" in size - minor various quartz carbonate stringers - matrix to intermediate volcanic fragments up to 1" - trace pyrite mineralization - broken zone at contact with next unit	1971	540'9"	544	3 1/3"						

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Ca ppm	Zn ppm	As ppm
544	570'9	Courser-ground Mat. to Top of hole, Flashed	1972	558'	560'	2'					
		- dark green, fine to medium grained	1973	560	562	2'					
		- minor quartz carbonate veinlets									
		- carbonatized									
		- generally trace to 1%									
		pyrite mineralization									
		- at 544'11" 1" wide carbonatized chloritized fracture									
		- at 544'13" 2" wide silicified carbonatized chloritized fracture									
		- at 548'8" 1" wide silicified carbonatized, chloritized fracture									
		- at 549'2" 1" wide silicified									

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Diamond Drill Hole Record

S 89-11 40 of 49

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Ca ppm	Zn ppm	Mn ppm
571'5"	581'0"	Matrix to Intermediate Flow	1974	570'	573'	3'					
		- dark green, fine grained	1975	573'	577'	4'					
		- chloritized, carbonatized	1976	577'	579'	2'					
		- massive to foliated	1977	579'	582'3"	3'3"					
		- moderate narrow (< 1/4")	1978	582'3"	584'	1'9"					
		- carbonate stringers	1979	584'	588'	4'					
		- moderate quartz carbonate veins and veinlets	1980	588'	591'	3'					
			1981	591'	595'	4'					
		- generally trace to 1%	1982	595'	598'6"	3'6"					
		- pyrite mineralization	1983	598'6"	601'	3'6"					
		- from 577'5" to 578'10"	1984	601'	604'	3'					
		highly silicified, carbonatized, chloritized mineralized zone	1985	604'	607'6"	3'6"					
		10 to 15% disseminated and	1986	607'6"	612'	4'6"					
		sub- pyrite mineralization	1987	612'	616'	4'					
			1988	616'	621'	5'					

Diamond Drill Hole Record

S 89-12

18 of 13

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	Ni ppm
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next unit

570'0"	791'4"	Mudic to Intermediate Flows	12038	629'6"	630'6"			1'			
		- dark green fine grained	12039	639'6"	640'6"			1'			
		- chloritized, carbonated	12040	680'	683'			3'			
		- massive to foliated	12041	683'	687'			4'			
		- numerous narrow (< 1/8" - 1/4") carbonate stringers	12042	687'	691'			4'			
		- moderate quartz and quartz carbonate veinlets	12043	691'	696'			5'			
		- moderate quartz and quartz carbonate veinlets	12044	696'	701'			5'			
		- generally trace to 1% pyrite mineralization	12045	701'	706'			5'			
		- from 54'8" to 48'4" well	12046	706'	711'			5'			
		- foliated zone, numerous narrow quartz, carbonate and	12047	711'	716'			5'			
			12048	716'	721'			5'			
			12049	721'	725'			4'			
			12050	725'	728'			3'			

484-13

S 89-12 19 of 33

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/con	Ag ppm	As ppm	Cu ppm	Zn ppm	Ni ppm
		carbonate stringers and veins	12051	728'	730' 2'						
		veins	12052	730'	734' 4'						
		- from 574' 8" to 577' 4"	12053	734'	737' 3'						
		change green to black contact zone	12054	737'	746' 3'						
			12055	740'	744' 4'						
		- at 594' 3" 12" wide silicified	12056	744'	747' 6" 3' 6"						
		carbonatized fractured zone, quartz streakwork	12057	747' 6"	751' 6" 4'						
		quartz streakwork	12058	751' 6"	756' 4' 6"						
		- at 603' 11" wide carbonatized, slightly silicified zone	12059	756'	761' 5'						
			12060	761'	766' 5'						
		- at 608' 1" 2" wide silicified carbonatized fracture, minor hematite stain	12061	766'	769' 3'						
			12062	769'	773' 4'						
		hematite stain	12063	773'	777' 4'						
		- at 613' 2" 1" wide carbonatized	12064	777'	781' 4'						
		cherting fracture	12065	781'	786' 5'						

589-12

27 of 31

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
		massive fine grained green hornblite stain 5 to 15% diagenetic and siliceous matrix									
		green hornblite with matrix									
79'4"	820'9"	coarse-grained Meli to intermediate Fe	12069	79	79						
		- fine green Fe to medium coarse	12070	79	79						
		- moderate quartz carbonate	12071	80	80						
		- trace hematite stain	12072	80	80						
		- generally trace to 1% pyrite	12073	80	80						
		Average iron	12074	81	81						
		- at 798'8" 8" wide silicified	12075	81	81						
		carbonatized, chloritized, fine	12076	81	81						

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Diamond Drill Hole Record

S 89-13 7 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
<i>Stungens</i>											
- trace to 1% pyrite mineralization											
- fine grained, chilled contact zone											
- contact with next unit at approx 370 to the epa											
338'2" 752'5" Mafic to Intermediate Flow											
- green to dark green, fine grained											
- chloritized, carbonatized											
- foliated to massive											
- numerous narrow (< 1/8" to 1/2") quartz carbonate Stungens throughout											
- moderate quartz carbonate veins and veinlets											
			12266	386	391	5'					
			12267	396	398	2'					
			12268	409	411	2 1/2"					
			12269	609	611	2'					
			12270	735	737	2'					
			12271	737	741	4 1/2"					

589-13 17 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Cu ppm	Zn ppm	As ppm
		carbonated, mineralized zone									
		approx 5 to 10% pyrite mineralization									
		- at 741' 7" 4" wide major intrusion									
		dike cutting the qtz at approx 580'									
		- gradational contact with next unit									
		752.5" 805' Coarser grained Mafic to Intermediate Fld	12272	762'	765'	3'					
		- dark green, fine to medium grained	12273	765'	767'	2'					
		- moderate quantity carbonate	12274	767'	770'	3'					
		vesiculate, developed in places	12275	770'	773'	3'					
		= mainly 1/8" to 1/4" pyrite	12276	773'	775'	2'					
		mineralization	12277	775'	778'	3'					
		- at 755' 6" 1" wide quartz	12278	780' 6"	784' 3' 6"						
			12279	790' 6"	794' 3' 6"						

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	As ppm	Cu ppm	Zn ppm	Mn ppm
		quartz, carbonate stringers									
		- from 790'5" to 794' slightly finer grained, foliated zone									
		several narrow quartz carbonate stringers									
		- contact with next unit at approx 60° to the SW (note T.S. 2 @ 801'2")									
		805' 805' Note to Intermediate Flow	12280	805'	807'6"	2'6"					
		- dark green, fine grained	12281	807'6"	810'6"	3'					
		- chloritized, carbonatized	12282	810'6"	814'	3'6"					
		- foliated to massive	12283	814'	816'6"	2'6"					
		- moderate narrow (< 1/8" to 1/4")	12284	816'6"	819'6"	3'					
		quartz carbonate stringers throughout	12285	819'6"	823'	3'6"					
			12286	823'	826'	3'					

Diamond Drill Hole Record

S89-13 23 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	As ppm	Cu ppm	Zn ppm	As ppm
		carbonatized, mineralized zone, 5 to 15% disseminated and cubic pyrite mineralization	4101	861'6"	863'6"	2'					
		- at 817'5" 4" wide highly silicified, carbonatized, chloritized fracture, 10% pyrite mineralization in wallrock (note T.S. 6 @ 817'7")	4102	863'6"	866'	2'6"					
		- from 821' to 822'7" coarse grained zone	4103	866	869	3'					
		(- note T.S. 7 @ 823'9")	4104	869	873	4'					
		- at 826'7" 2" wide silicified, carbonatized, chloritized fracture	4105	873	876'6"	3'6"					
		- at 829'11" 1" wide silicified, carbonatized, hematized fracture, 2 to 3% pyrite mineralization	4106	876'6"	880'6"	4'					
			4107	880'6"	882'6"	2'					
			4108	882'6"	884'6"	2'					
			4109	884'6"	886'6"	2'					

Diamond Drill Hole Record

S89-13 29 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Au ppm	Cu ppm	Zn ppm	As ppm
		- at 883'3" 4" wide silicified, carbonated mineralized zone, 10 to 15% cubic pyrite mineralization									
		- at 885'3" 11" wide silicified, carbonated, feldspathic mineralized, fractured zone, 5 to 15% pyrite mineralization									
		- no distinct contact with next unit									
		885" 942' Coarser grained Mafic to Intermediate Flow	4110	4110							
		- dark green, fine to medium grained	4111	892'	892'					5'	
		- minor quartz carbonate	4112	897	899					2'	
			4113	899	901'6"					2'6"	

1027

Diamond Drill Hole Record

SR-13 26 of 39

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Al ox/con	Ag ppm	Au ppt	Cu ppm	Zn ppm	As ppm
947'3"	956	Matic to Intermedicite Flow	4129	948'	950'	2'					
		- dark green + fine grained	4130	950	952	2'					
		- chloritized, carbonatized	4131	952'	956'	4'					
		- well foliated									
		- numerous quartz carbonate stringers and veinlets throughout									
		- generally trace to 1% pyrite mineralization									
		- at 948'4" 5" wide silicified, carbonatized zone with several narrow quartz carbonate veinlets									
		- at 949'2" 1" wide silicified, carbonatized fracture									
		- at 950'2" 1" wide silicified									

38 of 39

S 89-13

From (m)	To (m)	Description	Sample From (m)	To (m)	Width (m)	Au oz/ton	Ag ppm	Al ppm	Cu ppm	Zn ppm	As ppm
		silicified, carbonatized, mineralized zone 3 to 5% disseminated and cubic pyrite mineralization									
		- Inher core at contact with next unit									
956' 973'		Felsic to Intermediate Flow	4132	956	958 1/2"	962				216"	
		- greenish grey, fine grained	4133	958 1/2"	962					316"	
		- carbonatized	4134	962	966					41	
		- well foliated	4135	966	970					41	
		- moderate narrow (1/8" to 1/2") Sulfur tale, plagioclase, sericite bands cutting of at approx 72°	4136	970	973					3'	
		- generally trace to 2% pyrite									



W 9006-60451



41015SE0001 2.13173 ROLLO

900

Min. g Act Report of Work (Expenditures, Subsection 77(19)) **2131**

Type of Work Performed Beneficiation (Drill Core Assays)	Mining District PORCUPINE	KOLLO
Recorded Holder Black Gregor Explorations Ltd	Prospector's Licence No. T 1713	
Address 5770 Timberlea Blvd. Mississauga, Ont. L4W 4W7	Telephone No. (416) 624-4889	
Work Performed By Technical Service Laboratories	Date When Work was Performed From 15 02 89 To 15 06 89 Mo. Yr. Mo. Yr.	
Name and Address of Author (of Submission) D.T. Hillier 5770 Timberlea Blvd. Mississauga Ont. L4W 4W7		

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. * See Note No. 1 on reverse side				Mining Claim P1071659	No. of Days 55	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).				Calculation of Expenditure Days Credits Total Expenditures \$ 825.00				Total Days Credits + 15 = 55		Total Number of Mining Claims Covered by this Report of Work 2			

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim	Expend. Days Cr.	Mining Claim	Expend. Days Cr.	Mining Claim	Expend. Days Cr.	Mining Claim	Expend. Days Cr.
Prefix	Number	Prefix	Number	Prefix	Number	Prefix	Number
P	1035310	15					
P	1035311	40					

Total Number of Days Performed	Total Number of Days Claimed	Total Number of Days to be Claimed at a Future Date
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Certification of Beneficial Interest * See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in the report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date: **July 19/90**

Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying: **Al Purley, P.O. Box 794, King City, Ont. L0G 1K9**

Telephone No.: **(416) 833-6002**

Date: **July 19, 1990**

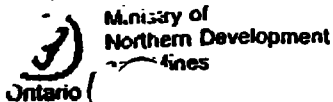
Certifying Agent (Signature): *[Signature]*

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Total Days Cr. Recorded 58	Date Recorded July 25/90	Mining Recorder <i>[Signature]</i> Mining Recorder
	Date Approved as Recorded August 16/90	Provincial Manager, Mining Lands <i>[Signature]</i>

RECORDED

JUL 25 1990



DOCUMENT No. W 9006-60250

AMENDED COPY

Instructions

- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Minerals Development and Lands Branch

Report of Work (Expenditures, Subsection 77(19)) 2.13173

Type of Work Performed: *Beneficiation (Drill Core Assays)* Mining Division: *Porcupine* Township or Area: *Rollo*

Recorded Holder: *Black Gregor Explorations Ltd.* Prospector's Licence No.: *T1713*

Address: *5770 Timberlea Blvd., Suite 201, Mississauga, Ont., L4W4W7* Telephone No.: *(416) 624-4889*

Work Performed By: *Technical Service Laboratories, Toronto*

Name and Address of Author (of Submission): *D.T. Hillier, 5770 Timberlea Blvd., Mississauga, Ont., L4W4W7*

Date When Work was Performed: From: *15* Day, *02* Mo., *89* Yr. To: *15* Day, *06* Mo., *89* Yr.

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side		Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
		<i>633569</i>	<i>120</i>								

Instructions: Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).

Calculation of Expenditure Days Credits:
Total Expenditures: *\$ 1,800.00* ÷ *15* = *120*

Total Number of Mining Claims Covered by this Report of Work: *6*

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	1088983	20									
P	1088984	20									
P	1088985	20									
P	1088986	20									
P	1088987	20									
P	1088988	20									

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FEB 12 1990

Total Number of Days Performed: *120* Total Number of Days Claimed: *120 this report (previous 130)* Total Number of Days to be Claimed at a Future Date: *None*

Certification of Beneficial Interest: *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date: *Feb. 8 / 90* Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying: *A. C. Gourley, P.O. Box 194 King City, Ont. L0G 1K0*

Telephone No.: *416 833-6062* Date: *Feb. 8 1990* Conditional By (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded: <i>120</i>	Date Recorded: <i>FEB 12 1990</i>	Mining Recorder: <i>[Signature]</i>
Date Approved as Recorded: <i>20 Feb 1990</i>	Provincial Minister: <i>[Signature]</i>	Mining Lands: <i>[Signature]</i>

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APR 10 1990
APR 6 1990
MINING LANDS SECTION

DOCUMENT No.
W 9006-055

- Instructions
- Please type or print.
 - Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
 - Technical Reports, maps and proof of expenditures in duplicate should be submitted to the Mining Lands Section, Mineral Development and Lands Branch.

Report of Work
(Expenditures, Subsection 77(19))

Type of Work Performed <i>Beneficiation (Drill Core Assays)</i>	Mining Division <i>Porcupine</i>	Township or Area <i>Kollo</i>
Recorded Holder <i>Black Gregor Explorations Ltd.</i>		Prospector's Licence No. <i>T1713</i>
Address <i>5770 Timberlea Blvd. Mississauga Ont. L4W4W7</i>		Telephone No. <i>(416) 624-4889</i>
Work Performed By <i>Technical Service Laboratories, Toronto</i>		<i>2.13173</i>
Name and Address of Author (of Submission) <i>D.T. Hillier, 5770 Timberlea Blvd, Mississauga, Ont. L4W4W7</i>		Date When Work was Performed From: <i>01 02 89</i> To: <i>15 06 89</i> Day Mo. Yr. Day Mo. Yr.

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side				Mining Claim <i>P633568</i>	No. of Days <i>40</i>	Mining Claim <i>P633569</i>	No. of Days <i>90</i>	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Instructions
Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).

Calculation of Expenditure Days Credits	Total Days Credits	Total Number of Mining Claims Covered by this Report of Work
Total Expenditures \$ <i>1950.00</i>	<i>15</i> = <i>130</i>	<i>3</i>

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	836714	10									
P	836715	60									
P	836716	60									

RECEIVED
FEB 23 1990
MINING LANDS SECTION

RECEIVED
JAN 30 1990

Total Number of Days Performed	Total Number of Days Claimed <i>130</i>	Total Number of Days to be Claimed at a Future Date
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Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date <i>JAN 29 / 90</i>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	----------------------------	--

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying <i>A. C. Gourley, P.O. Box 794 King City, Ont. L0K 1A0</i>	Telephone No. <i>(416) 833-6002</i>	Date <i>Jan. 29, 1990</i>	Certified by (Signature) <i>[Signature]</i>
---	--	------------------------------	--

Received Stamp
(416) 654-4889

For Office Use Only

Total Days Cr. Recorded <i>130</i>	Date Recorded <i>JAN. 30 1990</i>	Mining Recorder <i>[Signature]</i> Mining Recorder Provincial Manager, Mining Lands
	Date Approved as Recorded <i>20 July 90</i>	<i>[Signature]</i>

RECORDED
JAN 30 1990

DOCUMENT No.
W 9005-60401

Instructions
- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development Lands Branch.

Report of Work
(Expenditures, Subsection 77(19)) **2.13173**

Type of Work Performed <i>Beneficiation (Drill Core Assays)</i>	Mining Division <i>Porcupine</i>	Township or Area <i>Raney</i>
Recorded Holder <i>Black Gregor Explorations Ltd</i>	Inspector's Licence No <i>T 1713</i>	
Address <i>5770 Timberlea Blvd, Mississauga, Ont., L4W4W7</i>		Telephone No. <i>(416) 624-4889</i>
Work Performed By <i>Technical Service Laboratories, Toronto</i>		
Name and Address of Author (of Submission) <i>D.T. Hillier 5770 Timberlea Blvd, Mississauga, Ont. L4W4W7</i>		Date When Work was Performed From: <i>15 02 89</i> To: <i>15 06 89</i> Day Mo Yr Day Mo Yr

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side											
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
		<i>P 633569</i>	<i>30</i>	<i>P 633592</i>	<i>370</i>	<i>P 633593</i>	<i>236</i>	<i>P 1071659</i>	<i>73</i>		
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).	Calculation of Expenditure Days Credits		Total Number of Mining Claims Covered by this Report of Work
	Total Expenditures <i>\$ 10,635</i>	$\div 15 =$	Total Days Credits <i>709</i>
			<i>12</i>

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim	Expend.	Mining Claim	Expend.	Mining Claim	Expend.	Mining Claim	Expend.				
Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
<i>P</i>	<i>851947</i>	<i>60</i>	<i>P</i>	<i>851959</i>	<i>60</i>						
<i>P</i>	<i>851948</i>	<i>60</i>	<i>P</i>	<i>851960</i>	<i>60</i>						
<i>P</i>	<i>851949</i>	<i>60</i>	<i>P</i>	<i>851961</i>	<i>60</i>						
<i>P</i>	<i>851950</i>	<i>60</i>	<i>P</i>	<i>851962</i>	<i>49</i>						
<i>P</i>	<i>851951</i>	<i>60</i>									
<i>P</i>	<i>851952</i>	<i>60</i>									
<i>P</i>	<i>851957</i>	<i>60</i>									
<i>P</i>	<i>851958</i>	<i>60</i>									

RECORDED
JUN 19 1990
12:25 PM

Total Number of Days Performed	Total Number of Days Claimed <i>709</i>	Total Number of Days to be Claimed at a Future Date
--------------------------------	--	---

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date: *June 15/90* Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true

Name and Address of Person Certifying
A.C. Gourley, P.O. Box 794 King City, Ont. L0G 1K9

Telephone No: *(416) 833-6002* Date: *June 15/90* Certified By (Signature): *[Signature]*

Received Stamp

For Office Use Only

Total Days Cr. Recorded <i>709</i>	Date Recorded <i>JUNE 19 1990</i>	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded <i>20 July 90</i>	Provincial Registrar, Mining Lands <i>[Signature]</i>

RECORDED
JUN 19 1990

JAMES BAY COMPANY

MINERAL RESOURCES INC.

5770 Timberlea Blvd., Suite 207, Mississauga, Ontario, Canada L4W 4W7 • (416) 624-4889 • Fax (416) 624-1006

March 26, 1990

Dr. W.R. Cowan,
Manager,
Mining Lands Section,
Whitney Black, 6th Floor,
Toronto, Ontario,
M7A 1W3

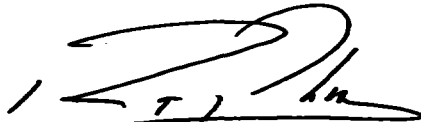
Dear Dr. Cowan:

Re: Black Gregor Explorations Ltd.

I hereby certify that the enclosed certificates of analysis were paid in full by James Bay Company Mineral Resources Inc. on behalf of Black Gregor Explorations Ltd.

Yours truly,

JAMES BAY COMPANY



Robert J. Platt
Chief Executive Officer

ACG:ma
Encls.

JAMES BAY COMPANY
MINERAL RESOURCES INC.

5770 Timberlea Blvd., Suite 207, Mississauga, Ontario, Canada L4W 4W7 • (416) 624-4889 • Fax (416) 624-1006

July 19, 1990

RECEIVED

JUL 24 1990

Dr. Gary Cowan,
Mining Lands Section,
880 Bay Street,
3rd Floor,
Toronto, Ontario.
M5S 1Z8

MINING LANDS SECTION

2.13173

Attention: Ms. Jill Stewart

Dear Sir:

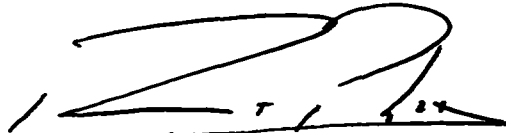
Re: Black Gregor Explorations Ltd.

Enclosed please find a work report and proof of expenditure for beneficiation studies on two claims in Rollo Township, Porcupine Mining Division, Ontario. All reports and assay data were sent previously as part of a previous submission.

Please refer to our letter of March 26, 1990, a copy of which is enclosed, in regards to payment of beneficiation costs.

Yours very truly,

BLACK GREGOR EXPLORATIONS LTD.



Robert J. Platt
Chief Executive Officer

ACG:ma
Encls.

JAMES BAY COMPANY
MINERAL RESOURCES INC.

RECEIVED

5770 Timberlea Blvd., Suite 207, Mississauga, Ontario, Canada L4W 4W7 • (416) 624-4889 • Fax (416) 624-1006

JUN 28 1990
MINING LANDS SECTION

June 28, 1990

Dr. W.R. Cowan,
Manager,
Mining Lands Section,
Whitney Block,
6th Floor,
Toronto, Ontario.
M7A 1W3

Dear Dr. Cowan:

Re: Black Gregor Explorations Ltd.

The attached beneficiation report for claims in Raney Township is covered by our previous submissions of expenditure verification, reports and assay records in letters of March 21, 1990, copies of which are attached.

Yours truly,

BLACK GREGOR EXPLORATIONS LTD.

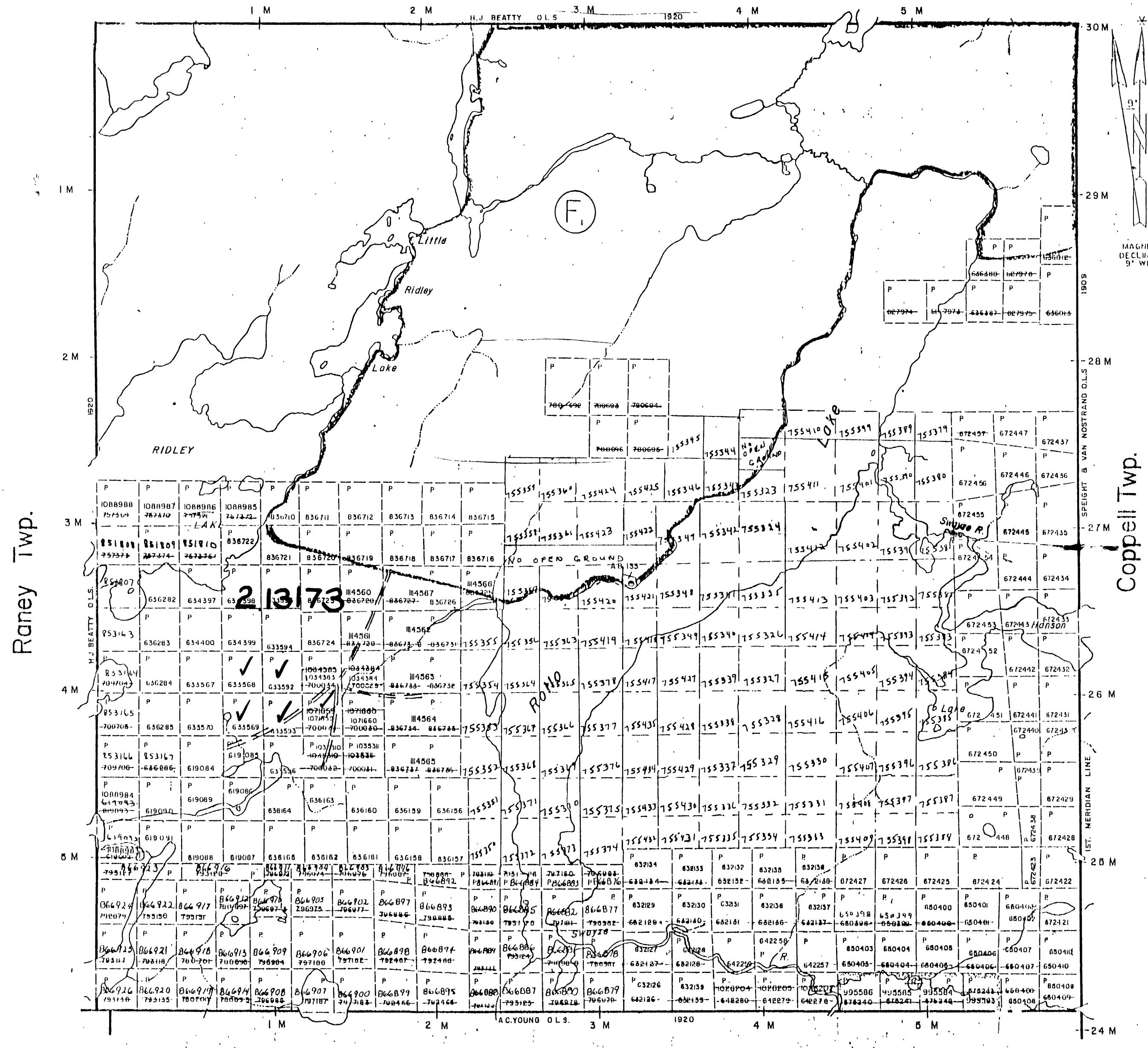

Carl Gourley, P.Eng.
Consulting Geologist

ACG:ma
Encls.

AREAS WITHDRAWN FROM DISPOSITION
M.R.O. — MINING RIGHTS ONLY
S.R.O. — SURFACE RIGHTS ONLY
M.+S. — MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File
(R) APPLICANT
APPLICATION REQ'D. FOR EXPLORATORY
LICENSE OF OCCUPATION... HAD NOT GOTTEN
TO STAKING 2/3/1977

Biggs Twp.



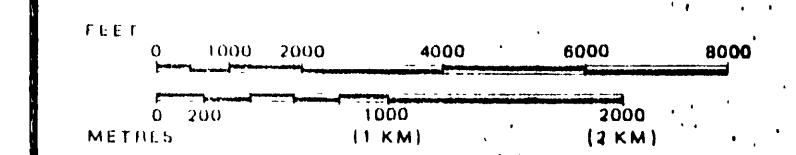
HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 83, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



NOTES

(R) THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1990. FURTHER INFORMATION AVAILABLE ON FILE.

TOWNSHIP

ROLLO

M.N.H. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ministry of Natural Resources
Ontario Land Management Branch

Date: MARCH, 1985

Number: G-3246



200

Penyes Twp

Swayze Twp.

Coppel Twp.

LEGEND

- 4. Intrusive Rocks
 - b. megacrystic quartz-feldspar porphyry
- 2. Felsic to Intermediate Volcanics
 - a. rhyolite to dacite flows (massive)
 - d. intermediate bedded tuff to lapilli tuff
 - e. plag-chlorite-sericite schist (porphyritic to med.-grained)
 - g. chlorite-epidote-sericite schist (v. fine-grained)
- 1. Mafic to Intermediate Volcanics
 - a. massive basalt to andesite flows, may be porphyritic
 - b. foliated basalt to andesite flows
 - d. tuffs
 - e. fragmentals

SYMBOLS

- geologic contact (defined, inferred)
- outcrop
- area of stripping program, 1985
- S89-3 drill hole location, 1989
- claim post
- quartz vein (inferred)
- stream
- swamp



210

P1034383

P633592

P633568

P633569

P633593

1a(b?)

P1071659

2d,e

2a

South Zone of Rickaby (1935)

RECEIVED
MAR 28 1990
MINING LANDS SECTION

BLACK GREGOR-CARLSON
SWAYZE PROJECT
AGAURA SHOWING AREA

SURFACE PLAN
2.13/73

Project: 89-1	By: Hillier
Scale: 1:1200 1" = 100'	Drawn: D.H.
Drawing No:	Date: May 1989

