McVICAR LAKE PROPERTY

(1446)

REPORT OF DIAMOND DRILLING

McVicar Lake Area
Patricia Mining Division

NTS 52 O/11 and 52 O/12

by

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SUMMARY

The McVicar Lake Property consists of 490 contiguous mining claim units located in Northwestern Ontario, NTS 52 O/11 and O/12. The property is an aggregate of approximately 7,840 hectares. Diamond drilling was limited to three mining claims located south and west of Lower McVicar Lake and at the shore of a small lake north of Lang Lake.

During the period September 20 to October 10, 1993, twelve BDBGM (Thin Wall) diamond drill holes were completed for a total of 4,978 feet (1,517 metres). This program was designed to test the down dip and strike extensions of the Chellow Vein and Cliff Zone as well targeting parallel structures in the immediate area. Secondary targets were the AGM Zone and the Belore/Fairservice trench.

Geologically, the area is underlain by Archean basaltic flows with interbedded ironstone tentatively correlated with the Confederation Assemblage. These lithologies are in contact with a late gabbroic intrusive which is in turn cut by smaller tonalitic bodies. All lithologies have been metamorphosed to greenschist facies.

Historically, gold mineralization on the McVicar Lake property is contained within intensely altered (sericite-pyrite) dilation zones related to refraction of the fault plane in areas of rheologic contrast. Gold is predominately contained within pyrite mineralization although free gold is known to occur within the margins of quartz veins. A second style of mineralization is recognised as being associated with pyritic quartz veins along the margin of late tonalitic intrusives in the Shonia Lake area.

The most recent phase of drilling, as described in this report, concentrated on an area to the south which hosts several smoky grey auriferous quartz veins within mafic volcanics and gabbro.

Although all of the holes designed to test the Chellow Vein did intersect the vein, only one hole (ML-93-88) intersected anomalous yet sub-economic gold mineralization. The weighted average of three samples through this zone was 575 ppb Au over 1.16 metres with the best single assay being 1160 ppb Au. The fact that

the vein was cut by each hole drilled along strike and down dip from the Chellow trenches indicates that the vein is continuous, although the average width remains a fairly constant 20 cm. The low tenor of gold values is disappointing given that three surface samples reported grades better than 12 oz/T (412 g/t) Au.

The other two holes in the immediate area of the Chellow Trenches intersected weakly mineralized gabbro and iron formation with low gold values (<150 ppb).

The AGM zone (8.9 g/t Au) which trends through the middle of Lower McVicar Lake was tested with four drill holes. Impressive widths of altered rock (24.5 m) and quartz veining (4.2 m) were encountered although the best intersection was only 420 ppb Au from a narrow quartz vein within relatively unaltered gabbro (ML-93-93).

The final hole (ML-93-97) was drilled to test below the Belore/Fairservice Trench (14.0 g/t Au). A total of 15.4 m of weakly to moderately mineralized argillite was intersected but gold values were all <5 ppb Au.

CONCLUSIONS AND RECOMMENDATIONS

1. The Chellow Vein, which represents a significant zone of mineralization, was tested with five diamond drill holes. Each hole intersected the targeted vein which dips very steeply to the north. Unfortunately, the width of the vein failed to improve at depth from the 20 cm average at surface. As well, the grades were significantly less than anticipated given the spectacular channel sample values up to 578.1 g/t Au. The lack of gold mineralization was likely due to the nugget effect commonly encountered in quartz vein hosted deposits. Further work is recommended involving a series of larger bulk samples to better assess the true grade of the vein material. The vein remains open along strike and down dip.

2. Attempts to intersect structures parallel to the Chellow Vein proved unsuccessful. The Cliff Zone was intersected at depth but remains subordinate to the Chellow Vein in grades and width. The magnetic high with an associated EM signature was attributed to several percent pyrrhotite in a sheared iron formation. Based on the current phase of drilling, there appears to be a lack of structures parallel to the Chellow Vein.

3. The Apple Green Mica Zone is very similar in character to the original Altered Zone discovered in 1986 drilling. This includes strong shearing, apple green mica alteration and massive quartz veins, although the percentage of sulphide is less than in the Altered Zone. What is important to note is the width of alteration and quartz (up to 24.7 m alteration and 4.2 m massive quartz veining) as well as values up to 8.9 g/t Au from surface channel samples. The zone remains open along strike and down dip. Further work to along strike is recommended.

4. One hole to test the Belore/Fairservice trench intersected minor amounts of pyrite and chalcopyrite but lacked any gold values above detection. No further work is recommended in this area.

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REPORT OF DIAMOND DRILL ACTIVITIES

McVICAR LAKE, ONTARIO (1446)

GENERAL INFORMATION

1.1 Introduction

This report addresses the diamond drilling efforts of BHP MINERALS CANADA LIMITED (BHP) during the period of September 20 to October 20, 1993. The McVicar Lake Property is located within the Patricia Mining Division in Northwestern Ontario (NTS 52 O/11 and O/12). Diamond drilling was completed on the following mining claims:

PA ~~117805~~ 117985, PA ~~114974~~ 114914, PA 1173155

1.2 Location and Access

This property is located approximately 80 km west of Pickle Lake, Ontario, Figure 1.2a. Access to the property is limited to charter aircraft as there are no roads into the region although a proposed winter road to the Cat Lake Reserve would pass within 8 km of the property. Charter services were provided by Goldbelt Air based in Pickle Lake.

1.3 Topography and Vegetation

The topography is generally flat lying and moderately covered by glacial debris. Outcrops are uncommon and relief rarely exceeds 20 metres in height. There is approximately 10-15% bedrock exposure.

Vegetation comprises spruce and birch trees in low lying areas with jackpine dominating the sandy ridges. Several areas of blow-down were encountered south of Lower McVicar Lake.

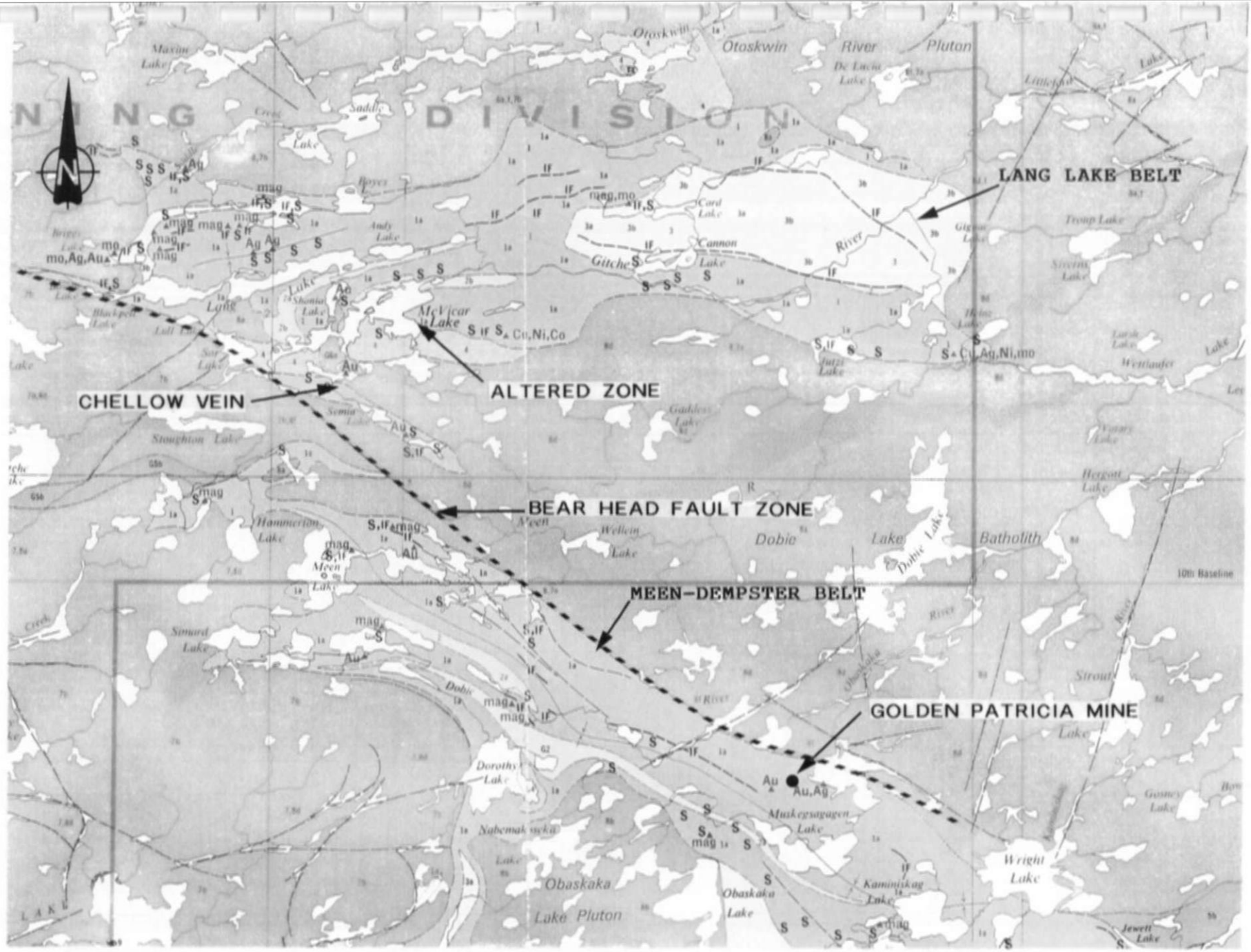

Figure 1.2a.
LOCATION MAP
(from Sage and Breaks, 1982)

Scale 1:253,440 or 1 inch to 4 Miles

1.4 Previous Work By BHP MINERALS CANADA LTD.

Prior to September 1993, BHP completed several phases of diamond drilling with an approximate aggregate footage of 31,155 feet (9496 metres) in 85 diamond drill holes. These drilling activities were complimented by geological, geophysical and geochemical surveys. These activities have persisted since 1985.

The bulk of the previous diamond drilling on the property tested the subcropping auriferous mineralization contained within a southeast plunging, intensely sheared and altered dilation zone called the Altered Zone (AZ). This zone, trending along a basalt-gabbro contact, reported up to 0.96 oz/T gold over 6.1 feet (ML-87-27) *(Thomas, 1988)*. A second northwest plunging dilation, the North Flexure (NF), was also extensively drilled. This extension of the AZ reported 0.239 oz/T gold over 6.6 feet (ML-91-54) *(Bonner, 1991a)*.

More recent drill programs focused on quartz vein mineralization recognised at the margin of the Shonia Lake tonalitic intrusive. This zone reported 1.65 oz/T gold over 2.0 feet (ML-92-83) *(Bonner, 1992b)*.

For information on the 1993 summer field work which lead to the drilling program discussed in this report, see "Report of Field Activities - McVicar Lake Property (1446)" in *(Waldie, 1993)*.

1.5 Current Drilling Objectives

There were several objectives to the 1993 diamond drilling program. The main goal was to test the down dip and strike extensions of the Chellow Vein (16.86 oz/T Au - 578.1 g/t Au) and Cliff Zone (2.0 oz/T Au - 70.0 g/t Au) as well test for any parallel structures in the immediate area. The secondary objective was to test the down dip and strike extensions of the AGM Zone (0.26 oz/T Au - 8.9 g/t Au) at the west end of Lower McVicar Lake. A final target was the Belore/Fairservice trench north of Lang Lake which reported 0.41 oz/T Au - 14.0 g/t Au in a government report but failed to yield values above background when sampled by BHP geologists.

GEOLOGY

2.1 Regional Geology

The Lang Lake Greenstone Belt, approximately 40 km x 10 km, lies within the Uchi Subprovince of the Superior Structural Province (Figure 1.2a). This relatively small belt was believed to have been tectonically detached from the Meen-Dempster Belt lying to the south (*Sage and Breaks, 1982*). Additionally, this belt has been isoclinally folded to produce an east trending and east plunging syncline.

The lithologic package includes various units of mafic through felsic metavolcanics and metapyroclastics. Clastic and chemical metasediments are also present. Late gabbroic intrusives have been subsequently intruded by tonalitic bodies along the southern belt margin. All of the rock types have undergone metamorphism and while the prefix "meta" is implied it has been omitted from the balance of this report.

Structurally, the southern margin of the Lang Belt is positioned in contact with the Bear Head Fault Zone (*Osmani and Scott, 1988 and Osmani, 1989*). This NW-SE trending dextral mega-structure is recognised over a 500 km length from the Manitoba border area and represents a subprovince boundary (Berens River) to the northwest of this region. The Bear Head Fault apparently disappears some 60 km to the SE, within the northern margin of the Meen-Dempster Belt.

2.2 Golden Patricia Mine

Located 25 km southeast of the McVicar Lake property is the Golden Patricia mine. This deposit contains approximately 0.87 million tonnes of ore grading 19.9 g/t Au (0.58 oz/T Au) hosted almost exclusively within a distinctive 2 cm to 2 metre (average 0.6 metres) dense grey cherty quartz "vein" that is laterally continuous for at least 5-6 km to depths of 500 metres. The "Golden Patricia Zone" strikes northwest at 290° and dips 70° northeast, with oreshoots plunging at 40° southeast. Contacts of the Zone and host rocks are sharp with absence of wallrock fragments included in the Zone. Gold occurs as free micron-sized grains in quartz, inclusions in idioblastic pyrite and coarse grains in microveinlets, with microveinlet-gold predominating. Wallrock alteration is limited to 30-50 cm on both sides of the Zone being characterized by the presence of biotite, chlorite, calcite and muscovite.

The origin of the deposit is not well understood at this time. Mine geologists interpret the Zone to be a structurally controlled quartz vein emplaced along a splay off the Bear Head Fault Zone. Rodd (1990) concludes that it represents a metamorphosed, distal exhalative chert unit hosting epigenetic gold in microveinlets formed late in the metamorphic history of the volcanic succession.

Structural and geochronological data, along with the form of the Zone, supports Rodd's findings. In any event, unlike most Archean lode gold deposits, the Golden Patricia Zone's narrow width (<2 metres) and great lateral continuity make this a distinctive, volcanic-hosted stratiform and strata-bound orebody.

Regional aeromagnetic images, processed by BHP, of the area around the Golden Patricia mine show a distinctive, large kilometre-scale sigmoidal pattern developed in the magnetics with the deposit located at the western end of the feature. Greg Stott (personal communication) of the Ontario Geological Survey (OGS) indicated that the rocks around the Golden Patricia mine have experienced abundant block rotation during the emplacement of the Dobie Lake Batholith which would have created dilation zones for fluids to migrate. It is interesting to note that a smaller but similar sigmoidal feature is observed on the McVicar Lake property in the vicinity of several visible gold bearing smoky quartz veins south of Lower McVicar Lake.

2.3 Local Geology

The McVicar Lake Property is underlain by Archean supracrustal volcanics which correlate with the Confederation Assemblage (2749 +-5 Ma). Massive to pillowed basaltic and andesitic flows are overlain by felsic pyroclastics and sediments. Large cross-cutting gabbroic intrusives are subsequently cross-cut by tonalitic bodies. Detailed lithological descriptions are included in Appendix III.

Structurally, the property is cross-cut by a NW-SE fault known as the Altered Zone (AZ). This fault is characterised by intense alteration and deformation of a ductile-brittle nature. The alteration intensity is reflected by dramatic increases in sericite, carbonate, and chlorite. Hydrothermal carbonate breccia commonly envelopes the structure. Folding is known but as yet poorly understood due to a paucity of exposures and a concentration of drilling.

The McVicar Lake east shore area is relatively well understood despite the limited exposure. Extensive diamond drilling has defined an east-west basalt-gabbro contact with a shallow northerly dip. This contact zone is characterised by a complex collection of xenoliths up to tens of metres wide. The basalt flows are commonly interbedded with narrow oxide ironstone units (flow caps).

This report pertains to drilling in an area of mixed mafic volcanics and gabbro containing several interbeds of broken and rotated iron formation. The metamorphic grade is greenschist.

Table 2.2a: **STRATIGRAPHIC COLUMN - McVICAR LAKE PROPERTY**

AGE	GROUP	LITHOLOGY
		Tonalite plutons, Granite plutons
	INTRUSIVE	
		North Flexure, Altered Zone, brecciated basalt, brecciated gabbro, fault gouge
	TECTONISM	
		Dobie Lake Batholith
	INTRUSIVE	
ARCHEAN		Gabbro, anorthositic gabbro
	INTRUSIVE	
	Billett Lake	Greywacke, mudstone, ironstone
	UNCONFORMITY	
	Confederation Assemblage	Basalt, porphyritic basalt

[*Modified after Thomas (1988), Stott and Wallace (1984), Sage and Breaks (1975)*]

DIAMOND DRILLING

3.1 Introduction

During the period September 20, 1993 through October 20, 1993 a series of twelve diamond drill holes (ML-93-86 to ML-93-97) were completed to evaluate the Chellow vein and surrounding structures. The aggregate footage drilled during this phase was 4,978 feet (1,517.3 metres).

Diamond drilling services were provided by Langley Drilling Ltd. of Brampton, Ontario, utilising a JKS 300 diamond drill. Gold Belt Air provided transportation by charter aircraft to the McVicar Lake site from Pickle Lake, Ontario. Demobilisation of the drill was completed using the reverse procedure. Coring size is BDBGM (Thin Wall) with drill core storage located at the McVicar Lake camp site. Drill collar locations are indicated on Plan Map 1a and 1b. Completed diamond drill logs for each hole are included in Appendix I.

The drill core was routinely split and delivered to Chemex Assay Laboratories Ltd. in Thunder Bay, Ontario. The sample rejects are also being stored in Thunder Bay. All samples were analyzed for gold (Au) utilising a fire assay technique with an atomic absorption finish. The Report of Analysis is included for reference in Appendix II.

Diamond drilling was completed with imperial rods. Drill logging continued to utilise imperial measurements but a systematic metric conversion was completed to facilitate section construction. All measurements on drill sections and plans are metric. Drill results are discussed in numerical order.

3.2 ML-93-86 (Section 4+22W)

Drill holes ML-93-86 to ML-93-90 were drilled to test the Chellow Vein and the Cliff Zone. The Chellow Vein reported values up to 16.9 oz/T (578.1 g/t) Au from surface samples (Waldie, 1993) while the Cliff Zone returned values up to 2.0 oz/T (70.0 g/t) Au (Sparks, 1992). ML-93-86 was collared at L4+22W, 2+68S bearing azimuth 180°, dipping at -48°. This drill hole tested the down dip extension of the Chellow Vein and the Cliff Zone. A lithological summary is presented in Table 3.2a, graphical representations are found in Section Plan 2.

Table 3.2a: **LITHOLOGICAL SUMMARY - ML-93-86**

PROPERTY:	McVicar Lake - 1446	LOGGED BY:	C.J. Waldie
GRID:	Semia Grid	DATE STARTED:	22/09/93
HOLE NO.:	ML-93-86	DATE ENDED:	24/09/93
COORDINATES:	L2+68S, 4+22W	CORE SIZE:	BDBGM
INCLINATION:	-48	CONTRACTOR:	W.G. Langley
TOTAL DEPTH:	599' (182.6 m)	CORE STORED:	McVicar Lake
CASING:	7.0' (2.1 m) Remains		

TARGET: Auriferous Smoky Quartz Vein (Chellow Vein)

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	7.0'	Overburden	
7.0	14.0	Gabbro and Mafic Volcanic	
14.0	24.5	Weakly Brecciated Mafic Volcanic	
24.5	32.0	Gabbro	
32.0	39.2	Weakly Brecciated Mafic Volcanic	
39.2	49.7	Silicified/Sericitized Mafic Volcanic	
49.7	56.5	Weakly Brecciated Mafic Volcanic	
56.5	61.0	Porphyritic Mafic Volcanic	
61.0	68.0	Weakly Brecciated Mafic Volcanic	
68.0	106.3	Granitoid Brecciated Mafic Volcanic	
106.3	125.5	Weakly Brecciated Mafic Volcanic	0.5-1% Py
125.5	167.7	Mixed Quartz Gabbro and Mafic Volcanic	
167.7	174.4	Mafic Volcanic	0.5-1% Py
174.4	175.0	Chellow Quartz Vein	1% Py
175.0	185.0	Mafic Volcanic	0.5-1% Py
185.0	196.0	Mixed Quartz Gabbro and Mafic Volcanic	
196.0	204.6	Sheared/Brecciated Mafic Volcanic	0.5-2% Py
204.6	250.0	Gabbro	
250.0	351.5	Mafic Volcanic	
351.5	443.5	Gabbro	
443.5	455.5	Banded Iron Formation	1-5% Py/Po
455.5	543.8	Gabbro	
543.8	574.5	Altered Feldspar Porphyry	
574.5	599.0	Gabbro	
599.0		End of Hole	

ML-93-86 intersected the Chellow Vein through the interval 174.4'-175.0' and the Cliff Zone through 452.0'-455.5'. The Chellow Vein was milky to smoky grey with less than 1% fracture controlled pyrite. The Cliff Zone comprised brecciated and altered BIF and gabbro with minor quartz and 5-7% pyrite.

Thirty-four intervals were selected for gold analysis. The highest value obtained was 165 ppb gold from the Chellow Vein.

3.3 ML-93-87 (Section 4+00W)

Drill hole ML-93-87 was collared at L4+00W, 2+92S drilling on section at azimuth 180°, dipping at -46°. This drill hole also tested the Chellow Vein and Cliff Zone as in ML-93-86. A lithological summary is presented in Table 3.3a, graphical representations are found in Section Plan 3.

Table 3.3a: **LITHOLOGICAL SUMMARY - ML-93-87**

PROPERTY:	McVicar Lake - 1446	**LOGGED BY:**	S. MacConnell
GRID:	Semia Grid	**DATE STARTED:**	25/09/93
HOLE NO.:	ML-93-87	**DATE ENDED:**	27/09/93
COORDINATES:	L2+92S, 4+00W	**CORE SIZE:**	BDBGM
INCLINATION:	-46	**CONTRACTOR:**	W.G. Langley
TOTAL DEPTH:	399' (121.6 m)	**CORE STORED:**	McVicar Lake
CASING:	4.5' (1.4 m) Remains		

TARGET: Auriferous Smoky Quartz Vein (Chellow Vein) and Cliff Zone.

INTERVAL From:	To:	**SUMMARY** Lithology	Mineralization
0.0'	4.5'	Overburden	
4.5	33.0	Mafic Volcanic	
33.0	55.5	Porphyritic Mafic Volcanic	
55.5	63.0	Mafic Volcanic	
63.0	101.2	Banded Iron Formation	
101.2	108.6	Mafic Volcanic	
108.6	134.4	Banded Iron Formation	2-3% Py, Po
134.4	146.6	Weakly Brecciated Mafic Volcanic	1-3% Py, Po
146.6	164.9	Banded Iron Formation	
164.9	170.3	Chloritic Mudstone	10-15% Py,Po
170.3	182.5	Banded Iron Formation	
182.5	184.7	Porphyritic Mafic Volcanic	
184.7	201.9	Banded Iron Formation	
201.9	210.0	Mafic Volcanic	
210.0	216.7	Banded Iron Formation	1-2% Py
216.7	234.0	Mafic Volcanic	
234.0	239.0	Gabbro	
239.0	249.0	Mixed Granitoid and Porphyritic Mafic Volcanic	
249.0	258.0	Banded Iron Formation	
258.0	261.0	Chloritic Mudstone	5-7% Py, Po
261.0	277.5	Banded Iron Formation	
277.5	283.5	Chloritic Mudstone	
283.5	332.5	Gabbro	
332.5	336.2	Sheared Mafic Volcanic	
336.2	343.7	Brecciated Mafic Volcanic	
343.7	344.7	Quartz Vein	5% Po
344.7	368.2	Banded Iron Formation	1-3% Py, Po
368.2	399.0	Gabbro	
399.0		End of Hole	

ML-93-87 intersected the Chellow Vein and Cliff Zone through the intervals 89.4'-89.7' and 336.2'-344.7'. The characteristics of each are similar to ML-93-86.

Forty-one intervals were selected for gold analysis. The best assay value returned was 300 ppb from the Cliff Zone.

3.4 ML-93-88 (Section 4+47W)

Drill hole ML-93-88 was collared on L4+47W, 2+38S drilling off section at azimuth 200°, dipping at -60°. This drill hole tested the Chellow Vein. A lithological summary is presented in Table 3.4a, graphical representations are found in Section Plan 4.

Table 3.4a: LITHOLOGICAL SUMMARY - ML-93-88

PROPERTY:	McVicar Lake - 1446	LOGGED BY:	C.J. Waldie
GRID:	Semia Grid	DATE STARTED:	28/09/93
HOLE NO.:	ML-93-88	DATE ENDED:	29/09/93
COORDINATES:	L2+38S 4+47W	CORE SIZE:	BDBGM
INCLINATION:	-60	CONTRACTOR:	W.G. Langley
TOTAL DEPTH:	399' (121.6 m)	CORE STORED:	McVicar Lake
CASING:	5.0' (1.5 m) Remains		

TARGET: Auriferous Smoky Quartz Vein (Chellow Vein)

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	5.0'	Overburden	
5.0	37.5	Gabbro	
37.5	38.7	Mafic Volcanic	
38.7	40.9	Gabbro	
40.9	46.0	Mafic Volcanic	
46.0	62.0	Gabbro	
62.0	78.5	Mixed Feldspar Porphyry, Porphyritic Mafic	
78.5	82.0	Gabbro	
82.0	112.0	Mafic to Intermediate Volcanic	
112.0	150.4	Gabbro	
150.4	171.5	Mafic to Intermediate Volcanic	
171.5	177.5	Mixed Quartz Gabbro , Porphyritic Gabbro	
177.5	181.5	Mafic to Intermediate Volcanic	
181.5	208.3	Mixed Quartz Gabbro , Porphyritic Gabbro	
208.3	210.0	Mafic to Intermediate Volcanic	
210.0	237.5	Brecciated Quartz Gabbro, Porphyritic Gabbro	
237.5	259.3	Intermediate to Mafic Volcanic	
259.3	270.0	Sheared Mafic/Inter. Tuff, Qtz Veins	5% Py,Po
270.0	289.0	Gabbro (Magnetic)	
289.0	330.2	Mixed Quartz Gabbro, Mafic Tuff, Gabbro	
330.2	338.2	Gabbro (Magnetic)	
338.2	361.8	Intermediate Feldspar Porphyry	
361.8	367.5	Gabbro	
367.5	375.6	Intermediate Feldspar Porphyry	
375.6	380.1	Gabbro	
380.1	399.0	Intermediate Feldspar Porphyry	
399.0		End of Hole	

ML-92-73 intersected the Chellow Vein through the interval 259.3'-270.0'. This zone comprises moderately sheared, sericitic, silicified mafic volcanic with four narrow (<10cm) smoky grey quartz veins containing up to 10% pyrite.

Seventeen intervals were selected for gold analysis. This hole reported the best assay result for the entire drill program which was 1.16 g/t Au over 0.3 metres with a weighted average for the section of 575 ppb Au over 1.16 metres.

3.5 ML-93-89 (Section 5+28W)

Drill hole ML-93-89 was collared on L5+28W, 2+25S bearing azimuth 200°, dipping at -51°. This drill hole also tested the Chellow Vein west of the trenches area. A lithological summary is presented in Table 3.5a, graphical representations are found in Section Plan 5.

Table 3.5a: LITHOLOGICAL SUMMARY - ML-93-89

PROPERTY:	McVicar Lake - 1446	LOGGED BY:	S. MacConnell
GRID:	Semia Grid	DATE STARTED:	02/10/93
HOLE NO.:	ML-93-89	DATE ENDED:	03/10/93
COORDINATES:	L2+25S 5+28W	CORE SIZE:	BDBGM
INCLINATION:	-51	CONTRACTOR:	W.G. Langley
TOTAL DEPTH:	299' (91.1 m)	CORE STORED:	McVicar Lake
CASING:	5.0' (1.5 m) Remains		

TARGET: Auriferous Smoky Quartz Vein (Chellow Vein)

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	5.0'	Overburden	
5.0	20.4	Mafic Volcanic	
20.4	26.5	Porphyritic Mafic Volcanic	
26.5	45.4	Gabbro	
45.4	50.5	Sheared Gabbro	
50.5	56.0	Gabbro	
56.0	57.2	Sheared Gabbro	
57.2	72.2	Gabbro	
72.2	74.2	Mafic Volcanic	
74.2	88.5	Gabbro	
88.5	102.0	Mafic Volcanic	
102.0	107.0	Gabbro	
107.0	112.3	Sheared Gabbro	1-2% Py
112.3	116.2	Gabbro	1-2% Py
116.2	123.1	Sheared Gabbro	1-2% Py
123.1	124.0	Quartz Vein	0.5% Py
124.0	130.2	Mafic Tuff / Mafic Volcanic	
130.2	136.0	Feldspar Porphyry	
136.0	196.3	Mafic Tuff / Mafic Volcanic	
196.3	212.5	Mixed Feldspar Porphyry, Mafic Tuff	
212.5	223.5	Mafic Tuff, Mafic Volcanic	
223.5	254.5	Gabbro	
254.5	257.5	Mafic Tuff	
257.5	264.5	Brecciated Gabbro	
264.5	282.0	Gabbro	
282.0	299.0	Silicified Gabbro	
299.0		End of Hole	

ML-93-89 intersected the Chellow Vein through the interval 123.1'-124.0'. The vein was milky to smoky grey and brecciated with sericite infilling and 1% pyrite.

Twelve intervals were selected for gold analysis. No anomalous assay values were reported.

3.6 ML-93-90 (Section 4+26W)

Drill hole ML-93-90 was collared at L4+26W, 1+82S bearing azimuth 200°, dipping at -60°. This hole was drilled to test the down dip extension of ML-93-88 which reported 1.16 g/t Au. A lithological summary is presented in Table 3.6a, graphical representations are found in Section Plan 4.

Table 3.6a: LITHOLOGICAL SUMMARY - ML-93-90

PROPERTY:	McVicar Lake - 1446	LOGGED BY:	C.J. Waldie
GRID:	Semia Grid	DATE STARTED:	04/10/93
HOLE NO.:	ML-93-90	DATE ENDED:	06/10/93
COORDINATES:	L1+82S, 4+26W	CORE SIZE:	BDBGM
INCLINATION:	-60	CONTRACTOR:	W.G. Langley
TOTAL DEPTH:	549' (167.3 m)	CORE STORED:	McVicar Lake
CASING:	15.0' (4.6 m) Remains		

TARGET: Auriferous Smoky Quartz Vein (Chellow Vein)

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	15.0'	Overburden	
15.0	20.0	Silicified Mafic Tuff	
20.0	23.5	Gabbro	
23.5	53.0	Silicified Mafic Tuff	
53.0	55.5	Feldspar Porphyry	
55.5	60.0	Gabbro	
60.0	107.0	Silicified Mafic Tuff	
107.0	115.5	Quartz Gabbro	
115.5	124.5	Silicified Mafic Tuff	
124.5	129.5	Sheared Silicified Mafic Tuff	
129.5	138.5	Silicified Mafic Tuff	
138.5	140.7	Sheared Silicified Mafic Tuff	1-2% Py
140.7	145.0	Silicified Mafic Tuff	
145.0	150.5	Gabbro	
150.5	199.7	Silicified Mafic Tuff	
199.7	202.7	Feldspar Porphyry	
202.7	228.6	Sheared Mafic Tuff	0.5-1% Py
228.6	240.0	Silicified Mafic Tuff	
240.0	267.0	Mixed Silicified Mafic Tuff, Quartz Gabbro	
267.0	279.0	Mafic Volcanic	
279.0	282.3	Gabbro	
282.3	295.5	Silicified Mafic Tuff	
295.5	305.5	Feldspar Porphyry	
305.5	331.5	Gabbro (Magnetic)	
331.5	347.0	Sheared Gabbro (Magnetic)	
347.0	354.5	Gabbro (Magnetic)	
354.5	374.0	Sheared Gabbro (Magnetic)	
374.0	381.5	Sheared Quartz Gabbro (Magnetic)	1-2% Py
381.5	400.5	Quartz Gabbro (Magnetic)	
400.5	405.5	Sheared Quartz Gabbro (Magnetic)	1-2% Py
405.5	437.0	Quartz Gabbro (Magnetic)	
437.0	444.0	Gabbro	
444.0	459.3	Mixed Silicified Tuff, Quartz Gabbro	
459.3	478.0	Gabbro (Magnetic)	
478.0	495.0	Sheared Gabbro, Mafic Tuff	

495.0	500.5	Quartz Gabbro	
500.5	504.0	Silicified Mafic Tuff	
504.0	513.8	Gabbro	
513.8	514.7	Chellow Quartz Vein	0.1% Po
514.7	524.5	Gabbro	
524.5	540.0	Mixed Feldspar Porphyry, Silicified Mafic Tuff	
540.0	545.5	Gabbro	
545.5	549.0	Silicified Mafic Tuff	
549.0		End of Hole	

ML-93-90 intersected the Chellow Vein through the interval 513.8'-514.7'. The vein consists of milky quartz with trace pyrrhotite.

Thirty-six intervals were selected for gold analysis. Several anomalous gold values were returned with the best being 260 ppb Au from a 0.9 metre section of sheared quartz gabbro.

3.7 ML-93-91 (Section 5+25W)

Drill hole ML-93-91 was collared at L5+25W, 3+70S bearing azimuth 200°, dipping at -45°. The hole was drilled to test for any parallel structures in the vicinity of the Chellow Vein. A lithological summary for each drill hole is presented in Table 3.7a, graphical representations are found in Section Plan 6.

Table 3.7a: LITHOLOGICAL SUMMARIES - ML-93-91

PROPERTY:	McVicar Lake - 1446	**LOGGED BY:**	S. MacConnell
GRID:	Semia Grid	**DATE STARTED:**	06/10/93
HOLE NO.:	ML-93-91	**DATE ENDED:**	07/10/93
COORDINATES:	L3+70S 5+25W	**CORE SIZE:**	BDBGM
INCLINATION:	-45	**CONTRACTOR:**	W.G. Langley
TOTAL DEPTH:	389' (118.6 m)	**CORE STORED:**	McVicar Lake
CASING:	20.0' (6.1 m) Remains		

TARGET: Fence hole targeting structures parallel to Chellow Vein

INTERVAL		**SUMMARY**	
From:	**To:**	Lithology	Mineralization
0.0'	20.0'	Overburden	
20.0	49.3	Mafic Volcanic / Mafic Tuff	
49.3	71.8	Silicified Mafic Tuff	
71.8	119.5	Silicified Mafic Volcanic	
119.5	155.5	Mafic Volcanic	1-3% Po, Cpy
155.5	161.7	Gabbro	
161.7	170.7	Silicified Mafic Volcanic	
170.7	189.8	Lean Iron Formation	1-3% Po, Py
189.8	279.5	Gabbro	
279.5	283.5	Lean Iron Formation	1-2% Po, Py
283.5	340.0	Gabbro	
340.0	353.0	Banded Iron Formation	1-3% Po, Py
353.0	369.5	Feldspar Porphyry	
369.5	370.0	Gabbro	
379.0	381.7	Banded Iron Formation	1-2% Po, Py
381.7	383.7	Chloritic Mudstone	
383.7	389.0	Gabbro	
389.0		End of Hole	

ML-93-91 failed to intersect any interesting lithologies or structures other than several dm-scale milky quartz veins with minor pyrrhotite.

Twenty-eight intervals were selected for gold analysis. No anomalous assays were returned with the best value being 25 ppb Au.

3.8 ML-93-92 (Section 5+80W)

Drill hole ML-93-92 was collared at L5+80W, 4+25S bearing azimuth 200°, dipping at -45°. The hole was drilled to test a weak EM anomaly trending parallel to the Chellow Vein within a magnetic BIF unit. A lithological summary for each drill hole is presented in Table 3.8a, graphical representations are found in Section Plan 7.

Table 3.8a: LITHOLOGICAL SUMMARIES - ML-93-92

PROPERTY:	McVicar Lake - 1446	**LOGGED BY:**	C. Waldie
GRID:	Semia Grid	**DATE STARTED:**	09/10/93
HOLE NO.:	ML-93-92	**DATE ENDED:**	11/10/93
COORDINATES:	L4+25S 5+80W	**CORE SIZE:**	BDBGM
INCLINATION:	-45	**CONTRACTOR:**	W.G. Langley
TOTAL DEPTH:	429' (130.76m)	**CORE STORED:**	McVicar Lake
CASING:	35.0' (10.7 m) Removed		

TARGET: Weak EM anomaly in BIF parallel to Chellow Vein

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	35.0'	Overburden	
35.0	59.0	Banded Iron Formation	1-2% Py
59.0	64.8	Dark Yellow-Buff Mud	
64.0	69.0	Whitish-Grey Mud	
69.0	89.0	Banded Iron Formation	
89.0	99.0	Green-Grey Mud	
99.0	132.0	Gabbro	
132.0	141.2	Silicified Mafic Tuff	
141.2	152.0	Gabbro	
152.0	169.0	Mafic Tuff	
169.0	179.0	Banded Iron Formation	3-5% Py
179.0	223.0	Gabbro	
223.0	249.0	Banded Iron Formation	1-2% Py
249.0	270.0	Gabbro	
270.0	300.5	Banded Iron Formation	1-2% Py
300.5	302.8	Sheared Mafic Tuff	
302.8	304.8	Banded Iron Formation	1-2% Py
304.8	312.0	Sheared Mafic Tuff	
312.0	316.4	Banded Iron Formation	1-2% Py
316.4	321.0	Mafic Tuff	
321.0	363.4	Banded Iron Formation	1-2% Py
363.4	389.0	Silicified Mafic Tuff	
389.0	396.0	Brecciated Mafic Volcanic	0.5-1% Py
396.0	429.0	Silicified Mafic Volcanic	
429.0		End of Hole	

ML-93-92 intersected the target zone through the interval 300.5'-321.0'. This interval consists of metre-scale intervals of BIF with 1-2% pyrrhotite and sheared mafic tuff.

Twenty-eight intervals were selected for gold analysis. The best assay value returned was 150 ppb Au from a sheared mafic tuff unit from the target zone.

3.9 ML-93-93 (Section 3+00W)

Drill hole ML-93-93 was collared at L3+00W, 0+83N bearing azimuth 200°, dipping at -55°. This drill hole tested the eastern extension of the apple green mica (AGM) zone which trends through the middle of Lower McVicar Lake. A lithological summary is presented in Table 3.9a, graphical representations are found in Section Plan 8.

Table 3.9a: **LITHOLOGICAL SUMMARY - ML-93-93**

PROPERTY:	McVicar Lake - 1446	**LOGGED BY:**	S. MacConnell
GRID:	Semia Grid	**DATE STARTED:**	12/10/93
HOLE NO.:	ML-93-93	**DATE ENDED:**	13/10/93
COORDINATES:	L0+83N 3+00W	**CORE SIZE:**	BDBGM
INCLINATION:	-55	**CONTRACTOR:**	W.G. Langley
TOTAL DEPTH:	459' (139.9 m)	**CORE STORED:**	McVicar Lake
CASING:	30.0' (9.1 m) Remains		

TARGET: AGM cliff zone, eastern end alteration zone through Lower McVicar Lake

INTERVAL From:	To:	**SUMMARY** Lithology	Mineralization
0.0'	30.0'	Overburden	
30.0	46.0	Gabbro	
46.0	60.8	Sheared Gabbro	
60.8	64.3	Gabbro	
64.3	73.5	Sheared Gabbro	
73.5	91.0	Gabbro	
91.0	99.4	Brecciated Gabbro	1-2% Py
99.4	121.0	Gabbro	
121.0	131.3	Quartz Gabbro	
131.3	154.0	Sheared Brecciated Gabbro	1-2% Py
154.0	166.3	Tonalite	
166.3	204.0	Sheared Brecciated Gabbro	
204.0	322.0	Gabbro	
322.0	338.2	Sheared Tonalite	
338.2	365.7	Porphyritic Gabbro	
365.7	459.0	Gabbro	
459.0		End of Hole	

ML-93-93 intersected the target zone through 166.3'-175.0'. The interval consists of highly sheared and contorted gabbro with moderate to intense carbonate and minor AGM alteration.

Thirty-six core intervals were selected for gold analysis. The best assay value reported was 420 ppm Au from a 0.3 metre interval containing a 10 cm quartz vein within gabbro.

3.10 ML-93-94 (Section 21+70W)

Drill holes ML-93-94 to ML-93-96 were drilled to test the main AGM zone at the west end of Lower McVicar Lake which reported values up to 8.9 g/t Au from surface samples (Waldie, 1993). ML-93-94 was collared at 21+70W, 9+00N bearing azimuth 40°, dipping 55°. A lithological summary for each drill hole is presented in Table 3.10a, graphical representations are found in Section Plan 9.

Table 3.10a: LITHOLOGICAL SUMMARIES - ML-93-94

PROPERTY:	McVicar Lake - 1446	LOGGED BY:	C. Waldie
GRID:	Semia Grid	DATE STARTED:	14/10/93
HOLE NO.:	ML-93-94	DATE ENDED:	15/10/93
COORDINATES:	L9+00N 21+70W	CORE SIZE:	BDBGM
INCLINATION:	-55	CONTRACTOR:	W.G. Langley
TOTAL DEPTH:	499' (152.10m)	CORE STORED:	McVicar Lake
CASING:	4.0' (1.2 m) Remains		

TARGET: AGM Zone at west end of Lower McVicar Lake

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	4.0'	Overburden	
4.0	72.5	Anorthosite	
72.5	79.0	Sheared Anorthosite	
79.0	147.5	Gabbro	
147.5	150.3	Sheared-Brecciated Gabbro	
150.3	154.0	Sheared-Brecciated Anorthosite	
154.0	172.0	Anorthosite	
172.0	185.5	Gabbro	
185.5	199.4	Quartz Vein	0.1% Py
199.4	209.8	Sheared-Brecciated Anorthosite	0.1% Py
209.8	308.5	Anorthosite	
308.5	477.0	Gabbro	
477.0	482.1	Anorthosite	
482.1	499.0	Gabbro	
499.0		End of Hole	

ML-93-94 intersected several zones of strong AGM alteration and a 13.9' milky quartz vein with trace fracture controlled pyrite from 185.5'-199.4'.

Twenty-three intervals were selected for gold analysis. No values were reported above the detection limit of 5 ppb Au.

3.11 ML-93-95 (Section 22+40W)

Drill hole ML-93-95 was collared at L22+40W, 8+90N, bearing azimuth 40°, dipping at -52°. This hole tested the AGM zone. A lithological summary for each drill hole is presented in Table 3.11a, graphical representations are found in Section Plan 10.

Table 3.11a: LITHOLOGICAL SUMMARIES - ML-93-95

PROPERTY:	McVicar Lake - 1446	LOGGED BY:	S. MacConnell
GRID:	Semia Grid	DATE STARTED:	16/10/93
HOLE NO.:	ML-93-95	DATE ENDED:	17/10/93
COORDINATES:	L8+90N 22+40W	CORE SIZE:	BDBGM
INCLINATION:	-52	CONTRACTOR:	W.G. Langley
TOTAL DEPTH:	309' (94.2 m)	CORE STORED:	McVicar Lake
CASING:	15.0' (4.6 m) Remains		

TARGET: AGM Zone at west end of Lower McVicar Lake

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	15.0'	Overburden	
15.0	34.5	Gabbro	
34.5	46.5	Anorthositic Gabbro	
46.5	119.0	Anorthosite	
119.0	140.7	Gabbro	
140.7	178.5	Brecciated-Sheared Gabbro	
178.5	192.0	Gabbro	
192.0	210.7	Brecciated-Sheared Gabbro	
210.7	230.3	Anorthosite	
230.3	273.3	Brecciated-Sheared Gabbro	0.5% Py
273.3	309.0	Gabbro	
309.0		End of Hole	

ML-93-95 intersected 81.3' of strong AGM alteration and minor quartz veining from 192.0'-273.3'. Mineralization was limited to trace pyrite.

Twenty-five intervals were selected for gold analysis. No anomalous values were returned with the best assay being 30 ppb Au.

3.12 ML-93-96 (Section 21+47W)

Drill hole ML-93-96 was collared at L21+47W, 8+57N, bearing azimuth 40°, dipping at -52°. This drill hole also tested the AGM zone. A lithological summary is presented in Table 3.12a, graphical representations are found in Section Plan 11.

Table 3.12a: LITHOLOGICAL SUMMARY - ML-93-96

PROPERTY:	McVicar Lake - 1446	LOGGED BY:	C. Waldie
GRID:	Semia Grid	DATE STARTED:	17/10/93
HOLE NO.:	ML-93-96	DATE ENDED:	18/10/93
COORDINATES:	L8+57N 21+47W	CORE SIZE:	BDBGM
INCLINATION:	-52	CONTRACTOR:	W.G. Langley
TOTAL DEPTH:	349' (106.38m)	CORE STORED:	McVicar Lake
CASING:	0.5' (0.2 m) Removed		

TARGET: AGM Zone at west end of Lower McVicar Lake

INTERVAL From:	To:	SUMMARY Lithology	Mineralization
0.0'	0.5'	Overburden	
0.5	124.0	Gabbro	
124.0	140.3	Brecciated Gabbro	
140.3	220.5	Gabbro	
220.5	230.8	Brecciated Gabbro	
230.8	257.0	Gabbro	
257.0	266.5	Sheared-Brecciated Gabbro	0.1% Py
266.5	273.8	Gabbro	
273.8	279.4	Anorthosite	
279.4	289.0	Gabbro	
289.0	290.7	Anorthosite	
290.7	349.0	Gabbro	
349.0		End of Hole	

ML-93-96 intersected several zones of weak to moderate AGM alteration with only trace pyrite.

Eleven intervals were selected for gold analysis. The best assay value returned was 120 ppb Au from a 1.06 metre interval of AGM alteration and minor smoky quartz veins.

RESULTS

Collar elevations are approximations determined from published topographic maps (1:50,000, NTS 52 O/11). The gently rolling terrain was considered for calculations to target depth and for section plotting.

Within the Chellow Trenches area, the Chellow Vein remained at an average width of approximately 20 cm and was smoky in most cases. Sulphides ranged from nil to 15% and were generally dominated by pyrrhotite and minor pyrite. Unfortunately, the values returned from the Chellow Vein and Cliff Zone were much less than anticipated given the spectacular grades from surface samples. Disappointing values were also returned from the AGM Zone although alteration and quartz veining were better than expected.

Appendix III provides a summary of the lithologies encountered during this phase of drilling.

All anomalous gold (>100 ppb) assays reported from the McVicar Lake drill program are tabulated in Table 4.1a. Where the assay value was below 100 ppb from a drill hole, the highest value is provided (n=18). A complete report of all the analytical results has been included in Appendix II (n=309).

Table 4.1a: **ANOMALOUS GOLD INTERVALS - McVICAR LAKE 1993**

HOLE #	SAMPLE	INTERVAL (M)	LITHOLOGY	AU (PPB)
ML-93-86	18511	53.1 - 53.4	Quartz Vein (Chellow)	165
ML-93-87	18537	27.1 - 27.5	Quartz Vein (Chellow)	275
ML-93-87	18558	75.9 - 77.1	BIF	160
ML-93-87	18569	104.8 - 105.1	Quartz Vein (Cliff)	300
ML-93-88	18587	80.5 - 80.8	Quartz Vein (Chellow)	1160
ML-93-88	18588	80.8 - 81.4	Quartz Vein (Chellow)	110
ML-93-88	18589	81.4 - 81.7	Quartz Vein (Chellow)	920
ML-93-89	18595	36.9 - 37.5	Sheared Gabbro	145
ML-93-90	18619	100.4 - 101.4	Gabbro (Quartz Vein)	125
ML-93-90	18622	114.0 - 114.9	Sheared Quartz Gabbro	260
ML-93-91	18649	46.8 - 47.4	Quartz Vein	25
ML-93-92	18680	82.3 - 83.2	BIF (Quartz Vein)	150
ML-93-93	18711	49.4 - 50.7	Tonalite	200
ML-93-93	18719	91.4 - 91.7	Quartz Vein	420
ML-93-94	18733	22.1 - 23.0	Sheared Anorthosite	15
ML-93-95	18780	76.3 - 76.6	Sheared Gabbro	30
ML-93-96	18790	79.3 - 80.3	Sheared Gabbro (Quartz Vein)	120
ML-93-97	18800	64.2 - 65.4	Argillite (Quartz Vein)	<5

Due to the disappointing low gold values obtained from drill core samples of the Chellow Vein when compared to surface samples, an additional screened metallics assay was performed on several of the higher grade samples. These samples were obtained from the original rejects in order to get a more representative sample. Table 4.2a provides the results of this analysis.

Table 4.2a: **REPORT OF SCREENED ANALYSIS - CHELLOW VEIN**

HOLE #	SAMPLE	AU TOT G/T	AU-150 G/T	AU+150 G/T
ML-93-86	18511	0.18	0.20	<0.002
ML-93-87	18537	<0.07	<0.07	<0.002
ML-93-87	18569	0.79	0.78	0.024
ML-93-88	18587	1.10	1.10	0.022
ML-93-88	18588	0.08	0.08	0.005
ML-93-88	18589	0.84	0.83	0.017

As shown above, the screened metallics analysis failed to improve on the original results. It also indicates that the majority of the gold is contained in the fine fraction.

DISCUSSION

Approximately 25 km southeast of the McVicar Lake property, the Golden Patricia Mine is closest currently producing gold mine (0.87 million tonnes of ore grading 19.9 g/t - 0.58 oz/T Au). Many similarities exist between the Chellow Vein and the Golden Patricia deposit. These include: 1. Mineralization hosted within a narrow, continuous smoky grey quartz vein with little alteration in the surrounding wall rocks; 2. Gold predominantly occurring in the free state with sulphide content of the vein generally being low; 3. The average assay value (very preliminary) from 34 surface channel samples of the Chellow Vein was 28.8 g/t - 0.84 oz/T Au, similar to the grade at the Golden Patricia deposit.

Differences include: width of the vein (Golden Patricia averages 0.6 metres while the Chellow Vein averages 0.2 metres) and grades down dip.

The five drill holes targeted on the Chellow Vein intersected the vein but returned much lower gold values than anticipated. This was

probably due to the nugget effect commonly experienced with quartz vein hosted gold deposits. A better method, often employed by early explorers, would be to take several large samples of vein material to more accurately assess the average grade of the Chellow Vein.

Previous drill programs, extending back to 1986, have systematically tested the Altered Zone (AZ) structure for over 8 km from its most easterly point at the contact with the Dobie Lake Batholith to the west within the Shonia Lake tonalite. The structure continues westward, as indicated by a detailed ground magnetic survey, but remains untested. Along most of its length, the AZ structure is anomalous with respect to gold. To date the most significant features recognised along the AZ are the two dilation points; the Altered Zone (0.96 oz/T Au over 6.1 feet - ML-87-27) and the North Flexure (0.24 oz/T Au over 6.6 feet - ML-91-54), and the Shonia Lake #1 gold occurrence (1.65 oz/T Au over 2.0 feet - ML-92-83). The current (1993) drilling program did not continue to test the AZ structure.

The AGM zone at the west end of Lower McVicar Lake possesses many of the same elements as the AZ. These include: 1. strong shearing; 2. apple green mica alteration; 3. massive quartz veining; 4. carbonate breccia. Surface channel samples from 1993 reported up to 8.9 g/t Au from this structure which trends through the middle of the lake. Although the three holes failed to reproduce the impressive gold values, the structure is well developed and requires more investigation along strike.

The Belore/Fairservice trench is of no further interest. The reported 14 g/t Au value remains unexplained.

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HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 1 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+68 S.N. 4+22 W.E. | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 597' (182.6m) | LOGGED BY: CJW

SECTION	ALTERATION: SILICIFIED	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0								DESCRIPTIVE GEOLOGY		PY			BW			
								0.0' - 7.0' OVERBURDEN CASING REMAINS								
10								7.0' - 14.0' GABBRO ± MAFIC VOLCANIC MEDIUM GREY-GREEN, FINE TO MEDIUM GRAINED. GABBROIC PORTIONS APPROX 60%PLAG/40%MAFICS. MAFIC PORTION WEAKLY FOLIATED @ 60° TCA. MINOR CARBONATE FRACTURES IN MAFIC. TRACE DISS. PY.		— To 0.1	9	50 100	BRK			
20								GRADATIONAL CNT 14.0' - 24.5' WEAKLY BRECCIATED MAFIC VOLCANIC MEDIUM GREEN-GREY, FINE GRAINED, WEAKLY BRECCIATED WITH CARBONATE INFILLING. WEAK FOLIATION @ 60°. WEAK CHLORITIC PATCHES. TRACE DISSEMINATED PYRITE.		— To 0.5	19			21.0'		
30								SHARP CNT @ 90° TCA 24.5'-32.0' GABBRO DARK GREEN, MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 65° TCA. MINOR DISSEMINATED PYRITE		0.5 0.5	29	100		24.5	3.5'	18501
								SHARP CNT @ 90° TCA 32.0-39.2 WEAKLY BRECCIATED MAFIC VOLCANIC AS IN 14.0'-24.5'								
40								39.2'-49.7' SILICIFIED-SERICITIZED MAFIC VOLCANIC MEDIUM BEIGE-GREY, FINE GRAINED. WEAKLY FOLIATED @ 45° TCA., MODERATE TO STRONG PERVASIVE SILICIFICATION AND SERICITIZATION. NIL TO TRACE DISS. PYRITE.		— To 0.1	39	100				
								GRADATIONAL CNT 49.7'-56.5' WEAKLY BRECCIATED MAFIC VOLCANIC AS IN 14.0'-24.5'		— To 0.1		100				
50								SHARP CNT @ 65° TCA 56.5'-61.0' PORPHYRITIC MAFIC VOLCANIC MEDIUM GREY-GREEN FINE TO MEDIUM GRAINED, 5-10% ANHEDRAL WHITE FELDSPAR PHENO'S UP TO 2-3 mm. SMALL PORTIONS APPEAR GABBROIC. MASSIVE TO WEAKLY FOLIATED, MINOR CARBONATE ALONG FRACTURES. NIL TO TRACE PYRITE. MINOR SERICITE		— To 0.1	49	100				
											59					

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 2 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2468 S N: 422 W E: | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 599' | LOGGED BY: CJW

ALTERATION: SILICIFIED | CHLORITE | SERICITE | CARBONATE | FRACTURING | %MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

56.5' - 61.0' PORPHYRITIC MAFIC VOLCANIC

CONT...

61.0' - 68.0' WEAKLY BRECCIATED MAFIC VOLCANIC

AS IN 14.0' - 24.5'

68.0' - 106.3' GRANITOID BRECCIATED PORPHYRITIC MAFIC AND MAFIC VOLCANIC

MEDIUM GREY-GREEN, FINE TO MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED VOLCANIC, GRANITOID PORTIONS COMPOSED OF APPROX. 40% QTZ, 40% PLAG, 10% ORTHOCLASE, 10% MAFICS. BRECCIATED PORTIONS ARE INTERMITENT AND AVG. 10-30cm. FRAGMENTS ARE ANGULAR WITH SHARP CONTACTS. MINOR QUARTZ VEINS ASSOC. WITH BRECCIATION. MINOR TO MODERATE CARBONATE FILLED FRACTURES THROUGHOUT. TRACE DISS. PYRITE

106.3' - 125.5' WEAKLY BRECCIATED MAFIC VOLCANIC

AS IN 14.0' - 24.5' FROM 106.3' - 117.5'. 117.5' - 125.5' IS MORE MASSIVE AND CONTAINS PORTIONS OF PORPHYRITIC MAFIC AND POSSIBLY GABBROIC SECTIONS. CARBONATE BRECCIA ASSOC. WITH MINOR TO 1% PYRRHOTITE AND 0.5% CHALCOPYRITE.

SECTION	% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60	1 TO 0.1	69	100	BQTK	71.0'		
70	1 TO 0.1	79	100		75.0'	4.0'	18502
					79.0'	4.0'	18503
80	1 TO 0.1	89	100		83.0'	4.0'	18504
					87.0'	4.0'	18505
90	1 TO 0.1	99	100		94.0'		
					98.0'	4.0'	18506
100	1 TO 0.01	109	100		111.0'		
110	0.1				115.0'	4.0'	18507
	0.5 TO 1% TO CPY	117	100		119.0'	4.0'	18508

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 3 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+68 S 4+22 W | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 595' | LOGGED BY: CTW

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

106.0' - 125.5' WEAKLY FOLIATED MAFIC VOLCANIC

CONT...

125.5' - 167.7' MIXED QUARTZ GABBRO AND MAFIC VOLCANIC. MEDIUM GREEN, FINE TO MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED. MINOR CARBONATE FILLED FRACTURES. TRACE PATCHY PYRRHOTITE AND TRACE CHALCOPYRITE. PORTIONS OF VOLCANIC ARE PORPHYRITIC WITH 1-2 mm ANHEDRAL FELDSPARS

GRADATIONAL CONT

167.7' - 174.4' MAFIC VOLCANIC

MEDIUM GREY GREEN, FINE GRAINED, MASSIVE TO WEAKLY FOLIATED. WEAK TO MOD. PERVASIVE AND FRACTURE CONTROLLED CARBONATE. TWO NARROW (0.3' AND 1.5') COARSE FELD. PORPHYRY UNITS WITH GRADATIONAL CONTACTS. MINOR PYRITE IN VOLCANIC

GRADATIONAL CONTACTS

174.4' - 175.0' QUARTZ VEIN

MILKY TO SMOKY GREY QUARTZ VEIN (18cm TRUE WIDTH). SHARP CONTACTS @ 55-60° TCA. HOST ROCK VERY WEAKLY SHEARED FOR 1 CM AWAY FROM VEIN. MINOR (1%) FRACTURE CONTROLLED PYRITE.

FELD. PORPHYRY

FELD. PORPHYRY

CHALCOPYRITE VEIN

175.0' - 185.0' MAFIC VOLCANIC

AS IN 167.7' - 174.4' WITH 1-3% DISS. PYRITE

SECTION	ALTERATION: SILICIFIED	CHLORITE	SERICITE	CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
120								PY 1-3% TRACE CPY						
								TO 0.1		100				
130									129					
										100				
140									139					
								0.1 TO		100				
150									149					
										100				
160									159					
								TO 0.1		100				
170								0.5	169			169.0'		
												170.5'	3.5'	18509
												174.3'	2.0'	18510
								0.5		100		175.3'	1.0'	18511
								0.5				177.5'	2.0'	18512
									177				3.7'	18513

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 4 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+68 S N 4+22 W E | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 599' | LOGGED BY: CTW

ALTERATION: SILICIFIED | CHLORITE | SERICITE | CARBONATE | FRACTURING | QTZ+MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

175.0' - 185.0' MAFIC VOLCANIC

CONT...

GRADATIONAL CONT.

185.0' - 196.0' MIXED QUARTZ GABBRO AND MAFIC VOLCANIC

AS IN 125.5' - 167.7'

196.0' - 204.6' SHEARED/BRECCIATED MAFIC VOLCANIC - TUFF

MEDIUM TAN GREY FINE TO MEDIUM GRAINED, MODERATELY SHEARED @ 60° TCA. FRAGMENT ROTATED AND INFILLED WITH CARBONATE. A 1.5cm SMOKY QTZ VEIN WITH 1-2% PYRITE AND CHALCOPYRITE. MINOR SERICITE IN HOST. TRACE TO 1-2% PYRITE IN HOST AS WELL.

QTZ VEIN DIP TEST 46°

SHEARED/BX MAFIC VOLC.

204.6' - 250.0' GABBRO

MEDIUM TO DARK GREY GREEN, MASSIVE TO VERY WEAKLY SHEARED. MINOR CARBONATE VEINLETS THROUGHOUT. TRACE TO NIL PYRITE. FROM 208.6' - 210.0' SHEARED AND BRECCIATED AS 196.0' - 204.6'. COMPOSED OF 70% MAFICS AND 30% FELDSPAR. GRAIN SIZE ±0.5mm

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
180	0.1 to 0.5			BQTK	181.0'	3.7'	18513
	0.01 to 0.1	189	100		193.0'		
190					196.0'	3.0'	18514
	0.5 to 2		100		199.0'	3.0'	18515
		199			202.0'	3.0'	18516
200					204.6'	2.6'	18517
	— to 0.1		100		208.6	4.0'	18518
		209			211.6'	3.0'	18519
210	—		100				
		219					
220	— to 0.1		100				
		229					
230	—		100				
		239		V			

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 5 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+68 S / 4+22 W | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 399' | LOGGED BY: CSW

SECTION	ALTERATION: SILICIFIED	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240																
250								GRADATIONAL CNT			249	100				
260								1cm QTZ VN.			259	100				
270										-- to 0.1 Po	269	100				
280											279	100				
290											289	100				
											299					

DESCRIPTIVE GEOLOGY

204.6' - 250.0' GABBRO

CONT...

250.0' - 351.5' MAFIC VOLCANIC

MEDIUM TO DARK GREEN FINE GRAINED, MASSIVE TO WEAKLY FOLIATED SIMILAR TO 167.7' - 174.4' UNIT BUT COULD ALSO BE A FINER GRAINED PHASE OF GABBRO UNIT. MINOR CARBONATE FILLED FRACTURES AND MINOR SHEARING @ 65° TCA IN PORTIONS. NIL TO TRACE PYRRHOTITE AND PYRITE PORTIONS CONTAIN A NETWORK OF FRACTURE CONTROLLED BLEACHING AND SILICIFICATION WHICH EXTENDS FOR APPROX. 1-5mm OUT FROM FRACTURE

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 6 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+68 S 4+27 W | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 399' | LOGGED BY: CTW

SECTION	ALTERATION: SILICIFIED	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% PYRITE SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300								**250.0' - 351.5' MAFIC VOLCANICS** CONT...		—		100	BQ Core			
310										—	309	100				
320										—	319	100				
330										—	329	100		335.0'	4.0'	18520
340										—	339	100		339.0' / 343.5'	4.0'	18521
350								**351.5' - 443.5' GABBRO** AS IN 204.6'-250.0' WITH MINOR CHLORITE FILLED FRACTURES AS WELL AS CARBONATE AND QUARTZ. NIL TO TRACE SULPHIDES. BECOMES FINER GRAINED DOWN HOLE, APPEARANCE MAFIC VOLCANIC IN APPEARANCE.		—	349	100		347.5 / 351.5	4.0'	18522
										—	359					

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 7 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2468 S 4422 W | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1" = 10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 599' | LOGGED BY: CSW

SECTION	ALTERATION: SILICIFIED	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MTL MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
360								351.5'-443.5' GABBRO CONT..					BQ wireline			
370											369	100				
380											379	100				
390											389	100				
400								DIP TEST 46°			399	100		405.0'		
410											409	100		409.0'	4.0'	18523
											419					

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 5 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+68 S | 4+22 W | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 595' | LOGGED BY: CTW

ALTERATION: SILICIFIED | CHLORITE | SERICITE | CARBONATE | FRACTURING | ETC MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

351.5'- 443.5' GABBRO

CONT...

443.5'- 455.5' BANDED IRON FORMATION

DARK GREEN TO BLACK, ALTERNATING CHLORITIC AND MAGNETIC BANDS <0.5mm TO 1cm WIDE. UNIT BROKEN-UP SOME WHAT BUT NOT BRECCIATED. MINOR PERVASIVE AND FRACTURE FILLED CARBONATE. 0.5 TO 2% FRACTURE CONTROLLED PYRITE AND PYRRHOTITE. MINOR CHALCOPYRITE

FROM 452.0'- 455.5' STRONGLY BRECCIATED AND ALTERED UNIT WITH STRONG CARBONATE AND CHLORITE/SERICITE. BROKEN QUARTZ VEIN @ 453.0' (2-3cm). ZONE CONTAINS 5-7% FRACTURE CONTROLLED PY/PO/CP.

SHARP CNT @ 50° TCA

BRECCIATED ZONE

BROKEN CNT

455.5'- 543.8' GABBRO

AS IN 351.5'- 443.5' BUT WITH PATCHES OF MODERATE CARBONATE FILLED FRACTURES. MILKY WHITE QUARTZ VEIN @ 482.0' (15cm WIDE). FROM 540.0' TO 543.8' MODERATELY BRECCIATED AND CARBONATE INFILLED.

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
420	—		100	BQ(NW)			
		429			429.0'		
430	—		100		432.0'	3.0'	18524
		439			435.5'		
440	—				438.5'	4.0'	18525
	0.1 TO 1% PY/PO		100		441.5'	3.0'	18526
		449			444.0'	2.5'	18527
450	2-5% PY/PO				452.0'	3.0'	18528
			100		455.5'	3.5'	18529
	TO 0.1				459.0'	3.5'	18530
460		459			462.0'	3.0'	18531
	—		100				
		469					
470	—		100				
		479		V			

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 9 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+60 S 4+22 W | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 599' | LOGGED BY: CJW

SECTION	ALTERATION: SILICIFIED	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
480								455.5'-543.8' GABBRO CONT...								
										—		100		484.0	3.0'	18532
490										—	484					
										—		100				
500										—	499					
										—		100				
510										—	509					
										-		100				
520										—	519					
										-		100				
530										—	529					
										-		100				
										—	539					

HOLE NO. ML-93-86 | PROJECT: 1446 | PAGE NO: 10 OF 10

CASING DOLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 22, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2468 S 4422 W | DATE FINISHED: SEPT. 24, 1993 | SCALE: 1"=10'

INCLINATION: -48° | BEARING: 200° | TOTAL DEPTH: 599' | LOGGED BY: CSW

SECTION	ALTERATION: SILICIFIED	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MTL MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
540														540.0		
								455.5'- 543.8' GABBRO						543.8'	3.8'	18533
							IRREGULAR CONT.	CONT...		—		100				
550								**543.8'- 574.5' ALTERED FELDSPAR PORPHYRY**			549					
								DARK GREEN GREY, MEDIUM TO COARSE GRAINED, COMPOSED OF APPROX 15% SUB TO ANHEDRAL BUFF COLOURED FELDSPARS UP TO 3-5mm, 30% 3-5mm IRREGULAR ROUNDED PATCHES COMPOSED OF A MASS OF FINE GRAINED CHLORITE/SERICITE/BIOTITE, AND 55% DARK GREY GROUNDMASS. MASSIVE TO WEAKLY SHEARED @ 40° TCA. CONTACTS IRREGULAR TO GRADATIONAL. NO SULPHIDES NOTED. MINOR CARBONATE FILLED FRACTURES.		— TO 0.1		100				
560										—	559					
												100				
570											569					
							IRREGULAR CONT.			— TO 0.1				574.5'		
								574.5'- 599.0' GABBRO				100		577.5'	3.0'	18534
580								AS IN 351.5'- 443.5' WITH PORTIONS APPEARING MAFIC VOLCANIC IN CHARACTER. NIL SULPHIDES NOTED.			579					
										—		100				
590											589					
										—		100				
							DIP TEST 46°	END OF HOLE		—	599					

HOLE NO. ML-93-87 | PROJECT: 1446 | PAGE NO: 1 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT 25, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+92 S N. 4+00 W E. | DATE FINISHED: SEPT. 27, 1993 | SCALE: 1" = 10'

INCLINATION: -46° | BEARING: 180° | TOTAL DEPTH: 213' | LOGGED BY: SM

SECTION	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0						**0' - 4.5' OVERBURDEN** CASING REMAINS.					BW			
10						qtz vn. **4.5' - 33.0' MAFIC VOLCANIC** MEDIUM TO DARK GREY-GREEN, FINE-MEDIUM GRAINED, WEAKLY FOLIATED @ 35-45° TCA, WEAKLY BRECCIATED WITH WEAK-MODERATE CARBONATE INFILLING. NIL-TRACE DISS. PYRITE		—	9	100				
20								NIL TO TRACE	19	100				
30								NIL TO TRACE	29	100				
40						sharp cht @ 76° TCA. **33.0' - 55.5' PORPHYRITIC MAFIC VOLCANIC** MEDIUM GREY-GREEN, FINE-MEDIUM GRAINED, 2-5% INDIVIDUAL-SUBMEDIUM CRYSTAL PHENOCRYSTS 1-4 mm MASSIVE TO WEAKLY FOLIATED, MINOR CARBONATE ALONG FRACTURES NIL TO TRACE PY ALONG FRACTURES		—	39	100				
50								NIL TO TRACE	49	100				
						gradational cnt **55.5' - 63.0' MAFIC VOLCANIC** MEDIUM OLIVE GREEN, FINE-MEDIUM GRAIN. MASSIVE, MODERATE PERVASIVE CHLORITE, MINOR		—	59	100				

HOLE NO. ML-93-87 | PROJECT: 1446 | PAGE NO: 2 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: Sept 25, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+92 S N: 4+00 W E: | DATE FINISHED: Sept 27, 1993 | SCALE: 1" = 10'

INCLINATION: -46° | BEARING: 180° | TOTAL DEPTH: 399' | LOGGED BY: SM

ALTERATION: CHLORITE | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

55.5' - 63.0' MAFIC VOLCANIC CONT.:
FRACTURE FILL CARBONATE,

SHARP CNT @ 60° TCA

63.0' - 101.2' BANDED IRON FORMATION

DARK GREEN TO BLACK. ALTERNATING BANDS OF CHLORITE AND MAGNETITE. BANDS 0.5cm - 2 cm. FINE - MEDIUM GRAIN UNIT ALSO CONTAINS MORE MASSIVE LOOKING SECTIONS. MINOR PERVASIVE AND FRACTURE FILL CARBONATE 2-5% FRACTURE CONTROLLED Py, Po, MINOR CPY

QUARTZ VEIN @ 89.4' (3.5 - 4cm) (CHELLOW)

QTZ VEIN SHARP CNT @ 74°

SHARP CNT @ 56°

SHARP CNT @ 51°

101.2' - 108.6' MAFIC VOLCANIC

AS IN 55.5' - 63.0'

108.6' - 134.4' BANDED IRON FORMATION

AS IN 63.0' - 101.2'

CHLORITE BANDS NOT AS PRONOUNCED AS IN 63.0-101.2'

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60	Py —			BQTW			
	—						
70	—	69	100				
	— TO 0.5						
80		79	100				
	1-2%				84.0'		
	1% Po				87.0'	3.0'	18535
	TRACE - 0.5% CPY				89.0'	2.0	18536
90		89	100		90.2'	1.2	18537
	1%				92.2'	2.0	18538
	TRACE CPY				95.0'	2.8'	18539
					98.0'	3.0	18540
100		99	100				
	1-2% Py,Po				101.2'	3.3'	18541
	—						
		109	100				
110	0.5-1%				110.0'	----	----
	1% Po				111.0'	2.0'	18542
	TRACE CPY						
		119	100		114.5'	3.5'	18543

HOLE NO.: ML-93-87 | PROJECT: 1446 | PAGE NO: 3 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 25, 1993 | REP. TO CLAIM CORNER:

COORDINATES: 2+95S ft. 4+00W ft. | DATE FINISHED: SEPT. 27, 1993 | SCALE: 1" TO 10'

INCLINATION: -46° | BEARING: 180° | TOTAL DEPTH: 309' | LOGGED BY: SM

ALTERATION | FRACTURING | QTZ. MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
120	py			BQ/NQ			
	3-5% py, po, trace cpy				133.5'	4.0'	18544
					135.5'	2.0'	18545
130		129	100				
	0.5-1% py, po				131.5'		
					134.5'	3.0'	18546
	- 0.5%				140.0'		
140		139	100		142.0'	2.0'	18547
	5% py, po cpy						
	-						
		149	100				
150	1-2%						
		159	100		161.3'		
	1%				164.3'	3.0'	18548
					168.3'	4.0'	18549
170	10-15% py, po	169	100		170.3'	2.0'	18550
	10-15%				173.3'	3.0'	18551
					175.8'	2.5'	18552
		179	100		179.0'	3.2'	18553

SHEAR CUT @ 46°

SHEAR CUT @ 75°

SHEAR CUT @ 72°

@ 46°

GRANITOID CUT

108.6' - 136.6' BANDED IRON FORMATION.

CONT. . . .

134.4' - 146.6' WEAKLY BRECCIATED MAFIC VOLCANIC.

DARK BLACK-GREEN, FINE-MEDIUM GRAINED WEAKLY FOLIATED @ 58° TCA, WEAKLY BRECCIATED (10 ROTATION TO FRAGS) CALCSILICATE INFILLING, MODERATE PERVASIVE CHLORITIZATION, 0.5-3% Py, Po, CPY FRACTURE FILL

146.6' - 164.9' BANDED IRON FORMATION

DARK GREY BLACK, FINE-MEDIUM GRAINED, PARTLY DEVELOPED MAGNETITE BANDS, WEAK-MODERATELY BRECCIATED, WEAK-MODERATE CALCSILICATE ALTERATION FEL, 1-2% Py, Po TRACE CPY ASSOCIATED WITH CALCSILICATE FRACTURES

164.9' - 170.3' CHLORITIC MUDSTONE.

DARK GREEN, VERY FINE GRAINED, MASSIVE, INTENSE PERVASIVE CHLORITE ALTERATION, INTENSELY MINERALIZED (40-60% Py, Po) QUARTZ CALCSILICATE ZONE (165.8' - 166.0'), 10-15% Py, Po

170.3' - 182.5' BANDED IRON FORMATION

AS IN 63.0' - 101.2'

HOLE NO.: ML-93-87 | PROJECT: 1446 | PAGE NO: 4 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT 25, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+95S N. 4+00W E. | DATE FINISHED: SEPT 27, 1993 | SCALE: 1" TO 10'

INCLINATION: -46° | BEARING: 180° | TOTAL DEPTH: 399' | LOGGED BY: SM

ALTERATION: CHLORITE | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

170.2' - 182.5' BANDED IRON FORMATION

190.6' - 190.8' INTENSE CARBONATE ALTERATION, 2-3% PY MINERAL

182.5' - 184.7' PORPHYRITIC MAFIC VOLCANIC

AS IN 33.0 - 55.5'

SHARP CNT @ 65°

184.7' - 201.9' BANDED IRON FORMATION

AS IN 146.6 - 164.9'

DIP TEST 46°

SHARP CNT @ 50°

201.9' - 210.0' MAFIC VOLCANIC

MEDIUM - DARK GREEN, MEDIUM GRAINED, MASSIVE - WEAKLY FOLIATED @ 46°, MODERATE PERVASIVE CARBONATE ALTERATION, MINOR CARBONATE AS FRACTURE FILL, MINOR QUARTZ CARBONATE VEINLETS (2 - 5 mm)

SHARP CNT @ 46°

210.0' - 216.7' BANDED IRON FORMATION

AS IN 146.6 - 164.9' BUT NOT BRECCIATED AND TRACE FOR LESS CARBONATE

GRADATIONAL CNT

216.7' - 234.0' MAFIC VOLCANIC

MEDIUM - DARK GREEN, MEDIUM GRAINED, MASSIVE - WEAKLY FOLIATED, MINOR CARBONATE FRACTURE FILL, UNIT HAS A "GABBROIC" LOOK IN SECTION, TRACE - 0.5% PY ASSOCIATED WITH CARBONATE FRACTURES, (221.0' - 222.1') CONTAINS 7-10% (1-3 mm) CUBIC PY.

SHARP CNT @ 32°

234.0 - 239.0' GABBRO

DARK GREY GREEN, MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 32°, LOWER CNT IS SHARP BUT IRREGULAR, TRACE DISSEMINATED PY, MINOR PY ASSOCIATED WITH CARBONATE

GRADATIONAL CNT

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180	0.5-1%			BQTK	182.5	3.5	18554
	TRACE						
	1-2%	189	100		196.0'	4.0	18555
190	1-2%				199.9'		
	1-2%	199	100		201.9	2.9'	18556
200	—						
	1-2% Py/Po TRACE CPY	209	100				
210	—						
	0.5	219	100		220.5		
	0.5				222.0	3.0	18557
	7-10%						
220	— TO 0.5						
		229	100				
230	— TO 0.5						
	TRACE	239	100				

HOLE NO. ML-93-87 | PROJECT: 1446 | PAGE NO: 5 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: Sept 25, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+95 S N. 4+00 W E. | DATE FINISHED: Sept 27, 1993 | SCALE: 1" TO 10'

INCLINATION: -46° | BEARING: 180° | TOTAL DEPTH: 377' | LOGGED BY: TH

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

239.0' - 269.0' MIXED GRANITOID AND HORNBLENDIC MAFIC VOLC

GRANITOID MAKES UP 60% OF UNIT. LIGHT - MEDIUM WHITE - GREY GREEN, COARSE GRAINED, MASSIVE, 40% QTZ, 40% PLAG, 20% HORNBL.

[illegible] AS IN 32.0' - 55.5'

GRADATIONAL CNT

269.0' - 258.0' BANDED IRON FORMATION

DARK BLACK-GREY, FINE GRAINED, WEAK [illegible] WEAKLY BANDED, [illegible] MINOR CARBONATE [illegible] TRACE - 1% PY DISSEMINATED WITH [illegible]

GRADATIONAL CNT

258.0' - 261.0' CHLORITIC MUDSTONE

AS IN 161.9' - 171.3'

SHARP CNT @ 22°

261.0' - 277.5' BANDED IRON FORMATION

AS IN 249.0' - 258.0'

SHARP CNT @ 21°

277.5' - 283.5' CHLORITIC MUDSTONE

AS IN 160.9' - 171.3'

THIS UNIT HAS ONLY ≈ 1% PY DISSEMINATED WITH [illegible] FRACTURE FILL

GRADATIONAL CNT

283.5' - 332.5' GABBRO

MEDIUM - DARK GREY / GREEN, [illegible] TO WEAKLY [illegible] AT 45° TCA, APHANITIC

50% PAG, 50% MAFIC, MINOR CARBONATE INJECTING AND VEINLETS (1-5mm), MINOR CARBONATE REPLACEMENT IN MATRIX AND MAFIC CRYSTALS, WITH CARBONATE VEINLETS,

SECTION	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240						TRACE			BQ/BQ			
							269	100		249.0		
250						TRACE - 1% FINE GRN				253.0	4.0'	18558
						5-7% PY 1:1500				255.5'	2.5'	18559
										258.0'	2.5'	18560
260							259	100		261.0	3.0'	18561
						0.5 - 1%				265.0	4.0'	18562
							269	100		269.0	4.0'	18563
270						0.5 - 1%				273.0	4.0'	18564
										277.0	4.0'	18565
							279	100				
280						1%				281.0	4.0'	18566
										283.5'	2.5'	18567
						— TO 0.1	289	100				
290						— TO 0.1						
							279	100				

HOLE NO.: ML-93-87 | PROJECT: 1446 | PAGE NO: 6 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT 26, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+95S N. 4+00W E. | DATE FINISHED: SEPT 27, 1993 | SCALE: 1" to 10'

INCLINATION: -46° | BEARING: 180° | TOTAL DEPTH: 399' | LOGGED BY: S.H.

ALTERATION: SERICITE | CHLORITE | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

283.5' - 332.5' GABBRO.

CONT ...

332.5' - 336.2' SHEARED MAFIC VOLCANIC

DARK GREY - GREEN, MEDIUM GRAINED, WEAK FOLIATED @ 65° TCA, MODERATE CARBONATE ALTERATION, SERICITE ALONG FOLIATION

336.2 - 343.7 BRECCIATED MAFIC VOLCANIC

DARK GREY - GREEN, MEDIUM GRAINED MODERATELY BRECCIATED, MODERATE PERVASIVE CHLORITE, MODERATE CARBONATE INFILLING, MINOR SERICITE, 0.5-1% PY ASSOCIATED WITH CARBONATE INFILL.

343.7' - 344.7' QUARTZ VEIN

344.7' - 368.2' BANDED IRON FORMATION

DARK GREEN - BLACK, FINE GRAINED, ALTERNATING BANDS OF CHLORITE AND MAGNETITE (7-1 cm) MAGNETITE BANDS HAVE LIGHT - MODERATE BRECCIATED, CARBONATE INFILLING, 2-3% PY, Po TRACE CPY IN FRACTURES.

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300	-			NQ			
	0.1						
310	-	309	100				
	0.1						
320	-	319	100				
	0.1						
330	-	329	100				
	0.1						
	-						
	0.1						
	0.5	339	100		338.9		
340	1%				342.7	4.7'	18568
	2%				346.7	1.0'	18569
	2-3% Py/Po				346.0	4.3'	18570
350		349	100		350.0	4.0	18571
	2-3% Py/Po				354.0	4.0	18572
		359	100		358.0	4.0	18573

HOLE NO. ML-93-87 | PROJECT: 1446 | PAGE NO: 7 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT 25, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+95 S N. 4+00 W E. | DATE FINISHED: SEPT 27, 1993 | SCALE: 1" TO 10'

INCLINATION: -46° | BEARING: 180° | TOTAL DEPTH: 399' | LOGGED BY: S M

SECTION	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
360						DESCRIPTIVE GEOLOGY								
						344.7' – 368.2' BANDED IRON FORMATION						344.0	40	18573
						CONT....		3-5% Py/Po TRACE cpy				365.0	40	18574
												368.2	32	18575
						SHARP CNT @ 51° 368.2 – 399.0' GABBRO			369	100				
370						AS IN 383.5' – 332.5'		– 0.5						
									379	100				
380								– 0.5						
									389	100				
390								0.5						
						DIP TEST 46° END OF HOLE.		–	399	100				

HOLE NO. ML-93-88 | PROJECT: 1446 | PAGE NO: 1 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 28, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+38 S / 4+47 W / | DATE FINISHED: SEPT. 29, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 399' (121.6m) | LOGGED BY: CJW

ALTERATION: ORTHOCLASE | EPIDOTE | SERICITE | CARBONATE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
0				BW			
		9	100				
10			100				
		19					
20			100				
		29					
30			100		35.3'		
					37.3'	2.0	18576
		39					
40					41.0'		
			100		45.0'	3.0	18577
		49			50.0'		
50					53.0'	3.0	18578
			100				
		59					

0.0'-5.0' OVERBURDEN

CASING REMAINS

5.0'-37.3' GABBRO

DARK GREEN, MEDIUM TO COARSE GRAINED, MASSIVE WITH PORTIONS MODERATELY FRACTURED. MAFICS 80%, PLAG. 20% (0.5-2mm) 5-7% OF PLAG. IS EPIDOTIZED. MINOR CARBONATE FILLED FRACTURES. NO SULPHIDES NOTED.

FROM 0.0'-54.0' OCCASIONAL MILKY QUARTZ VEINS WITH COARSE TO PEGMATITIC SALMON COLOURED ORTHOCLASE (30-80% OF VEIN). MINOR HAIRLINE CHLORITIC FRACTURES. NO SULPHIDES.

37.3'-38.7' MAFIC VOLCANIC

DARK GREEN, FINE GRAINED, MASSIVE. OCCASIONAL CARBONATE FRACTURES. NO SULPHIDES

IRREGULAR CONTACTS

38.7'-40.9' GABBRO

AS IN 5.0'-37.3'

40.9'-46.0' MAFIC VOLCANIC

AS IN 37.3'-38.7'

IRREGULAR CONT.

46.0'-62.0' GABBRO

AS IN 5.0'-37.3'. LOWER PORTION OF UNIT APPEARS TO BE QUARTZ GABBRO.

HOLE NO. ML-93-88 | PROJECT: 1446 | PAGE NO: 2 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 28, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+38 S N 4+47 W E | DATE FINISHED: SEPT. 29, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 299' | LOGGED BY: CTW

ALTERATION: ORTHOCLASE | EPIDOTE | SERICITE | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

46.0' - 62.0' GABBRO

CONT...

62.0' - 78.5' MIXED FELDSPAR PORPHYRY AND PORPHYRITIC MAFIC VOLCANIC

MEDIUM GREY GREEN, MASSIVE, FELDSPAR PORPHYRY UNITS CONTAIN SUB TO EUHEDRAL PLAG. (1-3mm) SET IN A MAFIC AND QUARTZ GROUNDMASS. PORPHYRITIC VOLCANIC UNIT CONSISTS OF OCCASIONAL 1-3mm SUB TO EUHEDRAL PLAG. SET IN A FINE GRAINED MAFIC VOLCANIC. MINOR CARBONATE AND EPIDOTE FILLED FRACTURES. NO SULPHIDES NOTED.

78.5' - 82.0' GABBRO

AS IN 5.0' - 37.3'

82.0' - 112.0' SILICIFIED MAFIC VOLCANIC

MEDIUM TO DARK GREY, MASSIVE, FINE GRAINED, MODERATELY HARD UNIT. BECOMES WEAKLY TO MODERATELY PERVASIVE DOWN HOLE FROM 94.0' - 112.0' WITH CARBONATE FILLING FRACTURES. TRACE PYRITE. OCCASIONAL IRREGULAR BLEACHED PATCHES, SOME ASSOC. WITH FRACTURES, SOME JUST PATCHES.

112.0' - 150.4' GABBRO

AS IN 5.0' - 37.3' MINOR AREAS WITH QUARTZ AND CARBONATE NIL TO TRACE PYRITE. SOME PORTIONED FOLIATED @ 60° TCA.

SECTION	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60							
70		69	100				
80		79	100				
90		89	100				
100		99	100				
110		109	100				
		119			119.0'		

GRADATIONAL CONT.

GRADATIONAL CONT

CONT @ 50-70° TCA

SHARP @ 35° TCA

HOLE NO. ML-93-88 | PROJECT: 1446 | PAGE NO: 3 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 28, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+38 S / 4+47 W / | DATE FINISHED: SEPT 29, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 393' | LOGGED BY: C.JW

ALTERATION: CHLORITE | EPIDOTE | SERICITE | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
120				BQTK	128.0'	3.0'	18573
	TR to 0.1		100		126.0'	4.0'	18580
130		129	100				
140		139	100				
150		149	100				
160		159	100				
170	TR to 0.1	167	100				
	0.5 Po	177					

112.0'-150.4' GABBRO

CONT...

IRREGULAR CONT.

150.4'-171.5' SILICIFIED MAFIC VOLCANIC

AS IN 82.0'-112.0' WITH MINOR IRREGULAR PATCHES OF QUARTZ GABBRO. FROM 165.0'-170.0' UP TO 2-3% 1mm GARNET PORPHYROBLASTS NIL TO TRACE PYRITE.

QTZ GABBRO PATCHES

GARNETS

GRADATIONAL CONT.

171.5'-177.5' MIXED QUARTZ GABBRO AND PORPHYRITIC GABBRO

LIGHT TO DARK GREY GREEN, MASSIVE. PORPHYRITIC GABBRO CONTAINS 1-5mm ANHEDRAL TO EUHEDRAL PLAG. AND MINOR 1mm BLACKISH PATCHES (HBL, BIOT?) SET IN FINE TO MEDIUM GRAINED GABBRO. QUARTZ GABBRO CONTAINS UPTO 20% QUARTZ AND 2-5% BIOTITE. IRREGULAR DISTRIBUTION OF UNITS. MINOR PO ASSOC. WITH QTZ. GABBRO.

IRREGULAR CONT.

HOLE NO. ML-93-88 | PROJECT: 1446 | PAGE NO: 4 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 28, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+38 S / 4+47 W | DATE FINISHED: SEPT. 29, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 339' | LOGGED BY: CSW

SECTION	ALTERATION: CALCSILITE	ALTERATION: EPIDOTE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	PRIMARY MINERAL	GEOLOGY	COMMENTS:
180				/			V	SHARP CNT @ 40° TCA
	/						D	
				/			O	
	/						/	
190				/			O	← PY, Po, cPy
		/					/	
				/			D	
							/	
				/			O	
200				/			/	DIP TEST 60°
		/					D	
				/			/	
	/						O	
210				/			V	SHARP CNT @ 40° TCA IRREGULAR CONT.
	/						D	
				/			/	
		/					D	
220				/			/	
	/						D	
				/			/	
							D	
230				/			/	
							D	
				/			/	
							D	
				/			V	

DESCRIPTIVE GEOLOGY

177.5' - 181.5' SILICIFIED MAFIC VOLCANIC

AS IN 82.0'-112.0' WITH WEAK FOLIATION @ 40° TCA AND MINOR CARBONATE AND CHLORITE FILLED FRACTURES. NO SULPHIDES.

181.5' - 208.3' MIXED QUARTZ GABBRO AND PORPHYRITIC GABBRO

AS IN 171.5'-177.5' WITH 1cm CARBONATE VEINS WITH 3-5% Py, Po AND 1% cPy.

208.3'-210.0' SILICIFIED MAFIC VOLCANIC

AS IN 177.5'-181.5'

210.0'-237.5' BRECCIATED QUARTZ GABBRO AND PORPHYRITIC GABBRO

AS IN 171.5'-177.5' BUT WITH 2-10cm ANGULAR GABBRO FRAGMENTS SET IN QUARTZ GABBRO TO GRANITOID

237.5'-259.3' SILICIFIED MAFIC VOLCANIC

SIMILAR TO 82.0'-112.0' BUT LIGHTER GREY IN COLOUR. HARDER WEAKLY TO MODERATELY FOLIATED @ 40-50° TCA. BECOMES PROGRESSIVELY MORE SERICITIC AFTER 246.5' TO 259.3'. NIL TO TRACE PYRITE

AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
	PY			BQ(NQ)			
	—		100		189.0'		
		189			192.0	3.0'	189.81
	1 TO 0.5 Po, Py		100				
		199					
	—		100				
		209					
	—		100				
		219					
	-		100				
		229					
	--		100				
		239					

HOLE NO. ML-93-88 | PROJECT: 1446 | PAGE NO: 5 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 28, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+38 S ft. 4+47 W ft. | DATE FINISHED: SEPT. 29, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 339' | LOGGED BY: CSW

ALTERATION: BIOTITE | EPIDOTE | SERICITE | CARBONATE | FRACTURING | QTZ. MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

237.5'- 259.3' SILICIFIED MAFIC VOLCANIC

CONT...

259.3'- 270.0' SHEARED & SILICIFIED MAFIC TUFF / QUARTZ VEINS

MEDIUM GREEN, FINE TO MEDIUM GRAINED (UP TO 1mm QUARTZ GRAINS) MODERATELY SHEARED @ 45° TCA, WEAKLY BEDDED @ 45° TCA. SERICITIC THROUGHOUT MOST OF UNIT, VERY MINOR CARBONATE FRACTURES. SEVERAL SMOKY AND MILKY QUARTZ VEINS @ 45-50° TCA. CONTAINING UP TO 15-20% (AVG. 3-7% Po, Py, CPy) SULPHIDES. POSSIBLY ARSENOPYRITE ASSOC. WITH MIDDLE VEIN.

270.0'- 289.0' GABBRO (MAGNETIC)

MEDIUM TO DARK GREEN, UPPER PORTION WEAKLY FOLIATED @ 45° TCA, BECOMING MORE MASSIVE DOWN HOLE. FINE TO COARSE GRAINED. 270.0'- 275.0' IS NONE MAGNETIC, BUT FROM 275.0'-289.0' CONTAINS UP TO 10% 1-1.5mm SUBHEDRAL MAGNETITE GRAINS. MINOR CARBONATE FILLED FRACTURES. NIL TO MINOR DISS. Py

289.0'-330.2' MIXED QUARTZ GABBRO, MAFIC TUFF, GABBRO

MEDIUM GREY GREEN, MASSIVE, FINE TO MEDIUM GRAINED, VERY MIXED-UP UNIT, CHANGES EVERY COUPLE FEET, IRREGULAR. FROM 291.5'- 294.0' WELL SHEARED @ 35-40° TCA CORED BY A 35cm MILKY QUARTZ VEIN WITH TRACE PYRITE. WEAK TO MODERATE CARBONATE FILLED FRACTURES. NIL TO TRACE PYRITE, PYRRHOTITE.

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240	TO 0.1	249	100		253.5'		
250	TO 0.1	259	100		256.5'	3.0'	18582
					259.3'	3.0'	18583
260	2-5% Py Po CPy		100		264.0	1.7'	18584
					265.0	1.0'	18585
					266.1	2.1'	18586
					267.1	1.0'	18587
					269.9	1.8'	18588
					270.9	1.0'	18589
270	TO 0.1	269	100		273.0'	2.1'	18590
						3.0'	18591
280	TO 0.5	279	100				
	TO 0.1	289	100		291.0'		
290		299			294.0'	3.0'	18592

GRADATIONAL CONT.

1cm QTZ (SMOKY) Po, Py, CPy (10-20%)

1cm QTZ (SMOKY) Py, Po (5-10%)

6cm QTZ (MILKY) Py, Po (1-2%)

SHARP CONT @ 45° TCA

MAGNETIC

SHARP @ 45° TCA

SHEARED QTZ VN

HOLE NO. ML-93-88 | PROJECT: 1446 | PAGE NO: 6 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 28, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2438 S @ 4+47 W @ | DATE FINISHED: SEPT. 29, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 399' | LOGGED BY: CJW

ALTERATION: CHLORITE | EPIDOTE | SERICITE | CARBONATE | FRACTURING | QTZ/MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION

DESCRIPTIVE GEOLOGY

289.0'- 330.2' MIXED QUARTZ GABBRO, MAFIC TUFF, GABBRO

CONT...

330.2'- 338.2' GABBRO (MAGNETIC)

AS IN 270.0'- 289.0' WITH APPROX. 1-2' FROM UPPER AND LOWER CONTACT BEING : NON-MAGNETIC AND WEAKLY SHEARED

338.2'- 361.8' INTERMEDIATE FELDSPAR PORPHYRY

MEDIUM GREENISH GREY, MASSIVE TO WEAKLY SHEARED @ 50° TO A. 2-8mm SUBHEDRAL PLAGIOCLASE (COARSE ~10mm PHENOCRYSTS FROM 356.5'- 361.8') MINOR CARBONATE FILLED FRACTURES. NIL TO TRACE PYRITE.

SAMP OUT @60° TCA

MAGNETIC

CONTACT PLAG.

SECTION	% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300							
	1 to 0.5		100				
310		309					
	1 to 0.1		100				
320		319					
	—		100				
330		329					
	0.1 to 0.5		100				
340		339					
	—		100				
		349					
350	1 to 0.1		100				
		357					

HOLE NO. ML-93-88 | PROJECT: 1446 | PAGE NO: 7 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: SEPT. 28, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+38 S / 4+47 W | DATE FINISHED: SEPT. 29, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 399' | LOGGED BY: CTW

ALTERATION: BIOTITE/CHLORITE | EPIDOTE | SERICITE | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
360	BROKEN ANT.	338.2'-361.8' INTERMEDIATE FELDSPAR PORPHYRY				BQSAM			
		CONT...							
		361.8'-367.5' GABBRO	1 TO 0.1		100				
	IRREGULAR CONT	AS IN 5.0'-37.3', COARSE GRAINED							
370		367.5'-375.6' INTERMEDIATE FELDSPAR PORPHYRY		369					
		AS IN 338.2'-361.8' EXCEPT MEDIUM GRAINED (1-4mm)	1 TO 0.1						
	SHARP CNT @ 70° TCA	375.6'-380.1' GABBRO			100				
		AS IN 5.0'-37.3' BUT MEDIUM GRAINED		379					
380		380.1'-399.0' INTERMEDIATE FELDSPAR PORPHYRY							
	ALTERED FELD. PORPHYRY	AS IN 367.5'-375.6' EXCEPT FROM 383.0'-386.5 IS ALTERED FELDSPAR PORPHYRY AS IN ML-93-86. FROM 391.5'-394.5' IS GABBROIC. NIL PYRITE.	—		100				
				389					
390	GABBROIC		—		100				
	DIP TEST 55°	END OF HOLE		399					

HOLE NO. ML-93-89 | PROJECT: 1446 | PAGE NO: 1 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 2, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+25 S N. 5+28 W E. | DATE FINISHED: OCT 7, 1993 | SCALE: 1" TO 10'

INCLINATION: -51° | BEARING: 200° | TOTAL DEPTH: 299' (91.14m) | LOGGED BY: [illegible]

ALTERATION | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION

DESCRIPTIVE GEOLOGY

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
PY			BQ			

0.0' - 5.0' OVERBURDEN
CASING REMAINS.

5.0' - 20.4' MAFIC VOLCANIC

MEDIUM GREY, FINE GRAINED, MASSIVE TO WEAKLY FOLIATED @ 66° TCA, WEAKLY BRECCIATED, WEAK CARBONATE ±, FRACTURE FILL NIL TO TRACE PY.

- TRACE — 9 — 100

20.4' - 26.5' FELDSPAR PORPHYRY

MEDIUM GREY GREEN, FINE GRAINED, 5-7% ANHEDRAL - SUBROUNDED (1-8mm) WHITE - GREEN FELDSPAR PHENOCRYSTS, MASSIVE - WEAKLY FOLIATED, MINOR CARBONATE, PATCHES OF CHLORITE, PY 0.5-1% DISSEMINATED

TRACE — 19 — 100

26.5' - 45.4' GABBRO

DARK GREEN BLACK, COARSE GRAINED, 50% FELDSPAR, 50% MAFIC, MASSIVE - WEAKLY FOLIATED @ 44°, MINOR CRYSTAL SEGREGATIONS OF FELDSPARS NOTED THROUGHOUT, DRILLHOLE, MINOR QTZ VEINS < 1cm, 0.5-1% PY, MINOR PATCHES OF CHLORITE, PY 0.5-1% DISSEMINATED

- — 29 — 100

QTZ @ 22° 1%PY

QTZ @ 41° 1%PY

45.4' - 50.5' SHEARED GABBRO

DARK GREEN BLACK, FINE GRAINED, WEAK FOLIATION @ [illegible], WEAK CARBONATE FRACTURE FILL, PY 0.5-1% DISSEMINATED

0.5-1.0% — 34 — 100 — 45.4 — 40 — 18593

50.5 - 56.0' GABBRO

AS IN 26.5' - 45.4'

0.5-1.0% — 41 — 100 — 49.4

56.0' - 57.5' SHEARED GABBRO
AS IN 45.4' - 50.5' EXCEPT MORE BRECCIATED AND CHLORINATED.

0.5-1.0% — 5.1

57.5' - 72.2' GABBRO

HOLE NO. ML-93-89 | PROJECT: 1446 | PAGE NO: 2 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 2 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+25S / 5+28W | DATE FINISHED: OCT, 3, 1993 | SCALE: 1" TO 10'

INCLINATION: -51° | BEARING: 200° | TOTAL DEPTH: 299' | LOGGED BY: SJH

ALTERATION: SERICITE | EPIDOTE | CHLORITE | CARBONATE | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
60				BQTK			
	<1%		100				
70		69					
	0.5%						
	TRACE		100				
	0.5 - 1.0%	79					
80							
	0.5 - 1.0%		100				
90		89					
	TRACE		100				
		99					
100	TRACE		100				
	Py 2-3%	109					
	Py 2-3%						
110	3-5%		100				
	1-2						
	2-3	119			119.0'		19574
	1.0						

57.5' - 72.2' GRANODIORITE

AS IN 26.5' - 45.4' BUT WITH CARBONATE VEINLETS (0.5 - 1cm) @ 50 - 55°. CHLORITIC ALTERATION IN CONTACT ZONES AND ALONG FRACTURES

72.2 - 74.2 MAFIC VOLCANIC

AS IN 5.0' - 20.1'

74.2' - 88.5' GABBRO

AS IN 26.5' - 45.4'

88.5' - 102.0' MAFIC VOLCANIC

AS IN 5.0' - 20.1' LOWER CONTACT APPEARS TO BE A FAULT ZONE 1 - 2% SUBHEDRAL PYRITE

102.0' - 107.0' HYBRIDIC GABBRO

DARK GREEN, MEDIUM GRAINED, PORPHYRITIC, FOLIATED @ 47°, MODERATE PERVASIVE CHLORITIC VEINS - MODERATE CARBONATE IN PART, 2 - 3% FINE DISSEMINATED PYRITE

107.0' - 112.3' GRANITOID GNEISS

DARK BLACK GRAINS, MEDIUM GRAINED, PORPHYRITIC, FOLIATED @ 47°, MODERATE PERVASIVE CHLORITIC VEINS - MODERATE CARBONATE IN PART, 2 - 3% FINE DISSEMINATED PYRITE

112.3 - 116.2 PORPHYRITIC GABBRO

AS IN 102.0' - 107.0'

116.2' - 123.1' SILICIFIED GABBRO

AS IN 107.0' - 112.3' EXCEPT MORE STRONGLY FOLIATED @ 50°, ONLY SLIGHTLY MAGNETIC, 1 - 2% Po

HOLE NO. ML-93-89 | PROJECT: 1446 | PAGE NO: 3 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 2, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 24 25 S N. 5+78 W E. | DATE FINISHED: OCT. 3, 1993 | SCALE: 1" TO 10'

INCLINATION: -51° | BEARING: 270° | TOTAL DEPTH: 277' | LOGGED BY: [illegible]

ALTERATION: SERICITE | EPIDOTE | CHLORITE | CARBONATE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

116.2' - 123.1' SILICIFIED GRAPHITIC [illegible] CONT.

123.1' - 124.0' QUARTZ VEIN (SHELLOW) SMOKEY BLACK/WHITE, BRECCIATED, SERICITE INFILL, 1% BY FRACTURE FACE

SHEAR CAST @ 90°

124.0' - 130.2' MAFIC TUFF / MAFIC VOLCANIC

MEDIUM TAN-GREEN, FINE-MEDIUM GRAINED, WEAK-MODERATELY FOLIATED @ 44°, WEAK BRECCIATION, MODERATE PERVASIVE SERICITE, WEAK-MODERATE CARBONATE INFILL, SMALL <1mm FRAGMENTS, OCCASIONAL 0.5-1cm QUARTZ/CARBONATE VEINS, TRACE-0.5% DISSEMINATED PY

SHEAR CAST @ 46°

130.2' - 136.0' FELDSPAR PORPHYRY

AS IN 20.4' - 26.5'

GRAD CAST.

136.0' - 196.3' MAFIC TUFF / MAFIC VOLCANIC

AS IN 124.0' - 130.2' SERICITE DEPLETION ZONE - HOLE CHANGES COLOUR FROM TAN-GREEN TO GREY-GREEN

143.5' - 145.0' MAFIC [illegible] SHEARED/FOLIATED @ 36°

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
120	2-3% Py			BQ	121.0	2.0	18594
					123.1'	2.1	18595
	0.5%				124'	0.9	18596
	-		100		126.0	2.0	18697
130	0.5%	129			130.0	4.0	18598
	0.5%						
	-		100				
	-	139					
140							
	-		100				
		149					
150							
	-		100				
160		159					
	-		100				
		169					
170	-		100				

HOLE NO. ML-93-89 | PROJECT: 1446 | PAGE NO: 4 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT. 2, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2+25 S N. 5+78 W E. | DATE FINISHED: OCT. 3, 1993 | SCALE: 1"=10'

INCLINATION: -51° | BEARING: 207° | TOTAL DEPTH: 279' | LOGGED BY: TM

SECTION	ALTERATION: SERICITE	ALTERATION: EPIDOTE	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
180								DESCRIPTIVE GEOLOGY					BQWL			
190								136.0' - 196.3' MAFIC TUFF / MAFIC VOLCANIC CONT....		-	189	100				
200								196.3' - 212.5 MIXED FELDSPAR PORPHYRY / MAFIC TUFF PORPHYRITIC PORTIONS AS IN 20.0' 25.5' MAKES UP ~60% OF UNIT TUFF UNIT AS IN 124.0' - 130.2' UNIT IS WEAKLY BRECCIATED WITH WEAK CARBONATE INFILL CONTACTS BETWEEN MEMBERS OF UNIT IS FAIRLY SHARP BUT VARIABLE		-	199	100				
210								212.5' - 223.5' MAFIC TUFF / MAFIC VOLCANIC AS IN 124.0' - 130.2'. OCCASIONAL CARBONATE PATCHES.		-	209	100				
220								223.5' - 254.5' GABBRO DARK GREEN - BLACK MEDIUM - COARSE GRAINED WITH PHENOCRYSTS UNIT CONTAINS SOMEWHAT MAFIC BANDS WITH OTHERWISE 60% MAFIC, 40% FELDSPARS, MASSIVE - WEAKLY FOLIATED. 253.5' - 254.5' MODERATELY - WELL BRECCIATED, MODERATE EPIDOTE ALTERATION OF FELDSPARS, WEAK CARBONATE INFILL, OCCASIONAL QTZ / CARB VEIN (UP TO 2cm). NIL - TRACE PY		-	219	100		223.5 227.5 228.5 230.5	 2.0 1.0 2.0	 18599 18600 18601
230										-	229	100				
										-	239					

Diamond cut

DIP TEST @ 47°

Diamond cut

Diamond cut

HOLE NO. ML-93-89 | PROJECT: 1446 | PAGE NO: 5 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT. 6, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 2425 S ft. 5178 W ft. | DATE FINISHED: OCT. 3, 1993 | SCALE: 1" TO 10'

INCLINATION: -51° | BEARING: 270° | TOTAL DEPTH: 299' | LOGGED BY: JM

ALTERATION: SERICITE | EPIDOTE | CHLORITE | CARBONATE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240				BQTW			
	-		100				
250	-	249					
	-		100		252.5'		
	-				261.0'	3.5'	18602
260	-	259			264.5'	3.5'	18603
	-		100				
270	-	269					
	-		100				
280		279			279.0'		
	1%		100		296.0'	4.0'	18604
290	1-2%	289					
	1-2% PO, PY TRACE PY		100				
299		299					

223.5' - 254.5' GABBRO.

CONT. . . .

254.5' - 257.5' MAFIC TUFF

DARK GREY BLACK, MEDIUM GRAINED, MASSIVE, WEAK CARBONATE FRACTURE FILL.

257.5' - 266.5' BLEACHED GABBRO

AS IN 223.5' - 254.5' EXCEPT MODERATELY BLEACHED, WITH MODERATE CARBONATE INFILL, MODERATE PERVASIVE SERICITE

266.5' - 282.0' GABBRO

AS IN 223.5' - 254.5'

282.0' - 299.0' SILICIFIED GABBRO

MEDIUM GRAINED - GREY, FINE - MEDIUM GRAINED, 60% MAFIC 40% FELDSPAR, MASSIVE, MODERATE [illegible] CARBONATE VEINLETS (<1mm) MODERATE PERVASIVE SILICIFICATION, MODERATE EPIDOTE ALTERATION OF FELDSPARS, 1-2% FRACTURE FILL PY, 1% TRACE CPY

END OF HOLE

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 1 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82 S / 4+26 W | DATE FINISHED: OCT 6, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 549' (167.3m) | LOGGED BY: CSW

ALTERATION: CHLORITE | SERICITE | SILICIFIED | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

0.0'-15.0' OVERBURDEN

CASING REMAINS

15.0-20.0' SILICIFIED MAFIC TUFF

MEDIUM BEIGE GREY-GREEN, FINE GRAINED, WEAKLY FOLIATED @ 90° TCA. WEAKLY TO MOD. BRECCIATED AS NOTED BY COLOUR VARIATIONS AND CARBONATE INFILLING. MINOR SERICITE PATCHES SILICIFICATION ALSO APPEARS PATCHY. NIL TO TRACE PYRITE.

20.0'-23.5' GABBRO

DARK GREY GREEN, MASSIVE, MEDIUM GRAINED, MINOR CARBONATE, CHLORITE VEINLETS. NIL TO TRACE PYRITE

23.5'-55.0' SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0'

55.0'-55.5' FELDSPAR PORPHYRY

MEDIUM GREY GREEN, MASSIVE, MEDIUM TO COARSE GRAINED. SUBHEDRAL PLAGIOCLASE 2-5mm, 1-3mm ROUNDED GREEN PHENOS (CHLORITE/SERICITE?) SET IN A MEDIUM TO DARK GREY, FINE TO MEDIUM GRAINED GROUNDMASS. NO SULPHIDES NOTED.

55.5'-60.0' GABBRO

AS IN 20.0'-23.5'

IRREGULAR CONT

BROKEN CONT.

IRREGULAR CONT, QTZ VN

BROKEN CONT

SECTION	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
0				BW			
10							
15.0				BBGm			
20	tr 0.1	19	90		23.5'		
	—		100				
	tr 0.5				57.0	3.5'	1860$
30		29					
	tr 0.5		100				
40		39					
	—		100				
50	0.5	49					
	—		100				
	—						
55.0		59					

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 2 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82 S N. 4+26W E | DATE FINISHED: OCT 6, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 549' | LOGGED BY: CTW

ALTERATION: CHLORITE | SERICITE | SILICIFIED | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60	–		100	3.005cm			
70	–	69	100		77.5'		
80	–	79	100		80.5'	3.0'	18606
90	TR TO 0.1	89	100				
100	–	99	100				
110	–	109	100				
	–		100				
	–	117		V			

60.0'-107.0' SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0', FROM 88.5'-107.0' THE COLOUR IS BREENISH FROM 60.0' TO 63.0' IT IS MIXED GABBRO AND MAFIC TUFF. SEVERAL AREAS SHOW STRONG SILICIFICATION. MINOR BLEACHED PATCHES (<1cm) USUALLY ASSOC. WITH VEINLETS

SHR @ 55°TCA

107.0'-115.5' QUARTZ GABBRO

MEDIUM GREY GREEN, MASSIVE, MEDIUM GRAINED, WEAKLY BRECCIATED.

IRREGULAR CONT

115.5'-124.5' SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0' WITH MINOR FRAGMENTS OF QUARTZ GABBRO FROM 115.5' TO 118.0'

IRREGULAR CONT

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 3 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82 S / 4+26 W | DATE FINISHED: OCT 6, 1993 | SCALE: 1:10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 319' | LOGGED BY: CJW

ALTERATION: CHLORITE | SERICITE | SILICIFIED | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

115.5'-124.5' SILICIFIED MAFIC TUFF

CONT...

124.5'-129.5' SHEARED SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0' BUT MODERATELY TO STRONGLY SHEARED @ 45° TCA. MODERATE SERICITE DEVELOPMENT AND MOD. CARBONATE. NIL TO TRACE PYRITE

129.5'-138.5' SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0'

138.5'-140.7' SHEARED SILICIFIED MAFIC TUFF

AS IN 125.5'-129.5', SHEARED @ 30° TCA, 1-2% PYRITE

140.7'-145.0' SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0'

145.0'-150.5' GABBRO

AS IN 20.0'-23.5'

150.5'-199.7' SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0' WITH SEVERAL PATCHES CONTAINING MORE CARBONATE AND CHLORITE. NIL TO TRACE PYRITE.

SECTION	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
120	-			PQ/HQ/NQ	124.5'		
			100		127.0	2.5'	18607
130	0.1	129			129.5'	2.5'	18608
	tr-0.1		100		138.5		
140	1-2	139			140.7'	2.2'	18609
	-		100				
		149					
150	-		100				
		159					
160	-		100				
		169					
170	-		100				
		179		V			

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 4 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82 S / 4+26 W | DATE FINISHED: OCT 6, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 349' | LOGGED BY: CTW

ALTERATION: CHLORITE | SERICITE | SILICIFIED | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

150.5' - 199.7' SILICIFIED MAFIC TUFF

CONT...

199.7' - 202.7' FELDSPAR PORPHYRY

AS IN 53.0' - 55.5' BUT FELDSPARS ARE LESS WELL DEVELOPED AS ARE CHLORITE/SERICITE TRENDS. NIL SULPHIDES

DIP TEST @ 57°

CONTACT

202.7' - 228.6' SHEARED MAFIC TUFF

MEDIUM GREY GREEN, MEDIUM GRAINED, MODERATELY SHEARED @ 45° TCA. STRONG DEVELOPMENT OF CHLORITE/SERICITE FOLI, WEAK TO MODERATE CARBONATE. MINOR CM-SCALE BROKEN QUARTZ VEINS. ONE-TWO SMALL SPECKS AGM. TRACE TO 1% PYRITE.

BROKEN QTZ VNT

2CM QTZ VN

CONTACT

228.6' - 240.0' SILICIFIED MAFIC TUFF

AS IN 15.0' - 20.0'

SECTION	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180	-		100				
		189					
190	-		100				
		199					
200	-		100		209.0'		
		209			211.5'	2.5'	18610
210	0.1 TO 0.5		100		214.0'	2.5'	18611
					217.0'	3.0'	18612
		219			220.0'	3.0'	18613
220					223.0'	3.0'	18614
	- TO 0.1		100		226.0'	3.0	18615
		229			228.6'	2.6'	18616
230					231.6'	3.0'	18617
	- TO 0.1		100				
		239					

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 5 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1482 S N 426 W E | DATE FINISHED: OCT 6, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 549' | LOGGED BY: CTW

ALTERATION: CHLORITE | SERICITIC | SILICIFIED | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

240.0'-267.0' MIXED SILICIFIED MAFIC TUFF, QUARTZ GABBRO

MEDIUM GREEN TO GREY, FINE TO MEDIUM GRAINED, MASSIVE, APPROX. 80% TUFF, 20% QUARTZ GABBRO, IRREGULAR GRADATIONAL CONTACTS BETWEEN UNITS, MINOR CARBONATE FILLED VEINLETS, NIL TO TRACE PYRITE.

267.0'-279.0' MAFIC VOLCANIC

DARK GREEN, MASSIVE, FINE GRAINED, MINOR CARBONATE VEINLETS, SEVERAL QUARTZ-PLAGIOCLASE-ORTHOCLASE VEINS UP TO 15cm, AVG. 5-10cm CONTAINING UP TO 1% PYRITE PATCHES.

279.0'-282.3' GABBRO

AS IN 20.0'-23.5' WITH SOME PORTIONS BEING MAGNETIC

282.3'-295.5' SILICIFIED MAFIC TUFF

AS IN 15.0'-20.0'

295.5'-305.5' FELDSPAR PORPHYRY

AS IN 53.0'-55.5', SOME AREAS CONTAIN LESS WELL DEVELOPED FELDSPAR PHENOS.

SECTION	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240	—		100	ROBAN			
249		249					
250	—		100				
259		259					
260	—		100				
269		269					
270	— TO 0.5		100		275.0'		
						4.0'	18LIB
279		279			279.0'		
280	—		100				
289		289					
290	—		100				
299		299					

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 6 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82 S N 4+26 W E | DATE FINISHED: OCT 6, 1993 | SCALE: 1" = 10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 549' | LOGGED BY: CTW

SECTION	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: SILICIFIED	ALTERATION: CARBONATE	FRACTURING	STR. MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES (Py)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300								**295.5'-305.5' FELDSPAR PORPHYRY**					BQNQ			
								CONT...								
							BROKEN CNT.	**305.5'-331.5' GABBRO (MAGNETIC)**				100				
								DARK GREEN TO BLACK, MASSIVE, MEDIUM TO COARSE GRAINED, MINOR CARBONATE VEINLETS. 3-5% DISS. MAGNETITE GRAINS UP TO 1mm. NIL TO TRACE PYRITE WITH UP TO 5% Po FROM 329.5'-331.5' ASSOC WITH MINOR QUARTZ VEINS.			309					
310										- TO 0.1		100				
											319					
320										-		100				
											329			329.5'		
330							GRADATIONAL CNT.	**331.5'-347.0' SHEARED GABBRO (MAGNETIC)**						331.5'	3.0'	18619
								DARK GREEN TO BLACK, FINE GRAINED, WEAKLY TO MODERATELY SHEARED @ 40°-50° TCA. MINOR TO MOD. CARBONATE DEVELOPED ALONG SHEAR PLANES. 2-3% DISS. SHEARED MAGNETITE GRAINS NIL TO TRACE PYRITE, Po.		0.1 TO 0.5		100				
														337.5'		
340											339			340.5'	3.0'	18621
										- TO 0.1		100				
							GRADATIONAL CNT.	**347.0'-354.5' GABBRO (MAGNETIC)**								
								AS IN 305.5'-331.5'								
350											349					
							GRADATIONAL CNT.	**354.5'-374.0' SHEARED GABBRO (MAGNETIC)**						354.5'		
								AS IN 331.5'-347.0'		- TO 0.1		100				
														357.5'	3.0'	18621
											359					

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 7 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1182 S 426 W | DATE FINISHED: OCT 6, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: [illegible] | LOGGED BY: CJW

ALTERATION: CHLORITE | SERICITE | SILICIFIED | CARBONATE | FRACTURING | QTZ-MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION

DESCRIPTIVE GEOLOGY

% SULPHIDES (PY) | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

360

354.5' - 374.0' SHEARED GABBRO (MAGNETIC)

CONT...

370

374.0' - 381.5' SHEARED QUARTZ GABBRO (MAGNETIC)

MEDIUM GREEN AND GREY, COARSE GRAINED, WELL FOLIATED TO SHEARED @ 35°-40° TCA. CHLORITE FLOWS AROUND ROUNDED QUARTZ GRAINS. TRACE TO 3% NETWORK-TYPE PYRITE. MINOR TO STRONG CARBONATE ALONG SHEAR PLANES.

380

381.5' - 400.5' QUARTZ GABBRO (MAGNETIC)

MEDIUM GREEN AND GREY, COARSE GRAINED (2-5mm) MASSIVE, WEAK CARBONATE VEINLETS. NIL TO TRACE PYRITE

390

DIP TEST @ 55°

400

400.5' - 405.5' SHEARED QUARTZ GABBRO (MAGNETIC)

AS IN 374.0' - 381.5'

405.5' - 437.0' QUARTZ GABBRO (MAGNETIC)

AS IN 381.5' - 400.5' WITH SMALL PORTION WEAKLY FOLIATED @ 30°-50° TCA

410

% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
—	369	100	374.0'		
TR TO 0.1		100	377.0'	3.0'	18622
1 TO 2%	379		380.0'	3.0'	18623
—	389	100			
—		100			
—	399		405.5'		
0.5 TO 2		100	408.5'	3.0'	18624
	409		409.0'	3.5'	18625
0.1 TO 1		100	416.0'		
—	419	—	419.0'	3.0'	18626

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 8 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82 S / 4+26 W | DATE FINISHED: OCT 6, 1993 | SCALE: 1"=10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 549' | LOGGED BY: CTW

SECTION	ALTERATION: CALCITE	ALTERATION: SERICITE	ALTERATION: SILICIFIED	ALTERATION: CARBONATE	FRACTURING	QTZ-MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
420								**405.5'- 437.0' QUARTZ GABBRO (MAGNETIC)** cont...		0.1 to 0.5		100	BQ+	422.5'	3.5'	18627
430											429			426.0'	3.5'	18628
							IRREGULAR CONT	**437.0'- 444.0' GABBRO** MEDIUM GREEN, MASSIVE, FINE GRAINED (<1mm), MINOR CARBONATE FILLED FRACTURES. NO SULPHIDES. SMALL UNIT OF COARSE FELD. PORPHYRY @ 439.5'		0.1 to 0.5		100				
440							FELD. PORPH				437					
							SHARP CONT @ 50° TCA	**444.0'- 459.3' MIXED SILICIFIED MAFIC TUFF, QUARTZ GABBRO** AS IN 240.0'- 267.0'				100				
450											447					
												100				
							SHARP CONT @ 60° TCA	**459.3'- 478.0' GABBRO (MAGNETIC)** AS IN 20.0'- 23.5' WITH SOME SECTIONS BEING MAGNETIC			459					
460												100				
											469					
470								**478.0'- 495.0' SHEARED GABBRO, MAFIC TUFF** AS IN 331.5'- 347.0' BUT ALSO APPEARS TUFFACEOUS IN SECTIONS, MOD. TO STRONG CARB. IN SECTIONS. TRACE PYRITE.				100				
											471					

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 9 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82 S / 4+26 W | DATE FINISHED: OCT 6, 1993 | SCALE: 1:10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 549' | LOGGED BY: CSW

ALTERATION: CHLORITE | SERICITE | SILICIFIED | CARBONATE | FRACTURING | QTZ-MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

478.0' - 495.0' SHEARED GABBRO, MAFIC TUFF

CONT...

495.0' - 500.5' QUARTZ GABBRO

AS IN 381.5' - 400.5'

500.5' - 504.0' SILICIFIED MAFIC TUFF

AS IN 15.0' - 20.0'

504.0' - 513.8' GABBRO

AS IN 437.0' - 444.0', WITH MINOR SHEARING AT UPPER AND LOWER CONTACTS, MINOR BROWN QTZ VEINS.

513.8' - 514.7' QUARTZ VEIN (CHELLOW)

MILKY WHITE QUARTZ VEIN, HOMOGENEOUS WITH TRACE TO TRACE WIDTH 22cm

514.7' - 524.5' GABBRO

AS IN 504.0' - 513.8'

524.5' - 540.0' MIXED FELDSPAR PORPHYRY, SILICIFIED MAFIC TUFF

MEDIUM GREEN GREY, MASSIVE, FINE TO MEDIUM GRAINED. NIL TO TRACE PYRITE.

SECTION	% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
480					480.0'		
					481.0'	2.0'	18629
					483.0'	1.0'	18630
			100		485.0'	2.0'	18631
	tr to 0.1				488.0'	3.0'	18632
490		489			491.0'	3.0'	18633
			100		494.0'	3.0'	18634
	tr to 0.1						
		497					
500					504.0'		
	tr to 0.5		100		507.0'	3.0'	18635
		507			509.5'	2.5'	18636
	tr to 0.1				511.5'	2.0'	18637
					513.8'	2.3'	18638
	0.1 to 0.5		100		515.8'	1.0'	18639
					517.8'	3.0'	18640
520	tr to 0.1	519					
			100				
		529					
530			100				
		539		V			

1-2 cm SMOKY QTZ VN

IRREGULAR CONT.

IRREGULAR CONT

IRREGULAR CONT

SHARP CONT @ 60° TO CA MILKY QTZ VN

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 10 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 4, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 1+82.5 N 4+26 W E | DATE FINISHED: OCT 6, 1993 | SCALE: 1" = 10'

INCLINATION: -60° | BEARING: 200° | TOTAL DEPTH: 549' | LOGGED BY: CJW

SECTION	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: SILICIFIED	ALTERATION: CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
540								540.0' - 545.5' CARBONATE AS IN 20.0' - 23.5'								
								545.5' - 549.0' SILICIFIED MAFIC TUFF AS IN 15.0' - 20.0'		0.1%		100				
								DIP TEST @ 85° END OF HOLE @ 549'			549					

HOLE NO. ML-93-91 | PROJECT: 1446 | PAGE NO: 1 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT, 6, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+70' S N; 5+26 W E. | DATE FINISHED: OCT, 7, 1993 | SCALE: 1" to 10'

INCLINATION: -45° | BEARING: 20° | TOTAL DEPTH: 389' (118.6m) | LOGGED BY: CM

SECTION	ALTERATION: CHLORITE	ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL OR	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0							DESCRIPTIVE GEOLOGY					CW			
10							0.0' - 20.0' OVERBURDEN CASING REMAINS			9					
20							20.0' - 49.3' MAFIC VOLCANIC / MAFIC TUFF MEDIUM GREY - GREEN, FINE - MEDIUM GRAINED, MASSIVE - LOCALLY FOLIATED @ 51° TCA, MODERATE QTZ - CARB NETWORK ... QUARTZ - CARB VEINS (UP TO 0.7cm) MINOR - MODERATE CHLORITE IN ... MINOR DISSEMINATED PY IN RECRYSTALLIZED QUARTZ CARB ..., UNIT APPEARS MODERATELY FRACTURED WITH MANY HIGH ANGLE ... @ 47.0', MIC - TRACE PY		TRACE	19	95				
30									TRACE	29	70				
40									TRACE	39	85				
50							49.3 - 71.8' SILICIFIED MAFIC TUFF DARK BLACK GREEN, FINE MEDIUM GRAINED, MASSIVE - VERY HOMOGENEOUS TEXTURED, MODERATE PERVASIVE SILICIFICATION WEAK - MODERATE CARBONATE VEINING (1 - 2 mm) TRACE - 0.1% PY		TRACE	49	100				
										57					

HOLE NO. ML-93-91 | PROJECT: 1446 | PAGE NO: 2 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT, 6, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+70 S & 5+25 W | DATE FINISHED: OCT, 7, 1993 | SCALE: 1" = 10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 389' | LOGGED BY: SM

ALTERATION | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES Py | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

49.3' - 71.8' SILICIFIED MAFIC TUFF

CONT . . . .

71.8' - 119.5' SILICIFIED MAFIC VOLCANIC

MEDIUM GREY - (GREEN), FINE - [illegible], PERVASIVELY FOLIATED, @ 46°, MINOR TO MODERATE PERVASIVE SILICIFICATION, MINOR - MODERATE QTZ - CARB NET WORK (WITH OCCASIONAL QTZ - CARB VEINS (0.5 - 4cm). [illegible] QTZ-CARB NETWORK VARY [illegible] THE [illegible] FROM WEAK TO FAIRLY INTENSE, MINOR - 20% Py, CPy ASSOCIATED WITH QTZ - CARB VEINS

Py	DRILLING INTERVAL	% CORE RECOVERED
TRACE		
0.1	69	100
0.1	79	100
0.1	89	100
0.1	99	100
0.1	109	100
0.1	119	100

GRAD CNT

QTZ/CARB VN

SHAR CNT @ 26°

HOLE NO. ML-93-91 | PROJECT: 1446 | PAGE NO: 3 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT. 7, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+70 S N 5+25 W E | DATE FINISHED: OCT. 6, 1993 | SCALE: 1" TO 10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 399' | LOGGED BY: S.M.

ALTERATION: SERICITE | CHLORITE | SILICIFIED | CARBONATE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

119.5' - 155.5' MAFIC VOLCANIC

LIGHT - MEDIUM GREY - GREEN, FINE - MEDIUM GRAINED MASSIVE - LOCALLY FOLIATED, SECTIONS OF UNIT MODERATE PERVASIVE SILICIFIED, MINOR CARBONATE NETWORK, MINOR CHLORITE IN PATCHES AND ASSOCIATED WITH QTZ - CARB NET WORK. QTZ - CARB VEINS (0.5 - 3.3 cm) (0.5 - 5% Po, Py), MILKY - GREY WHITE QTZ VEIN (4.7cm) (7 - 10% Po, Py, CPY). SALMON PINK FELDSPAR CARB VEIN (5cm) NO SULPHIDES.

155.5' - 161.7' GABBRO

DARK GREY - GREEN, MEDIUM - COARSE GRAINED, 50% MAFIC 50% FELDSPAR, MASSIVE, MINOR CARBONATE, NO SULPHIDE.

161.7' - 170.7' SILICIFIED MAFIC VOLCANIC

AS IN 71.8' - 119.5'

170.7' - 189.8' LEAN IRON FORMATION

DARK BLACK - GREEN, FINE GRAIN, MASSIVE, IRREGULAR BANDS OF MAGNETIC, SUBORDINATE CHLORITE, MINOR CARBONATE PATCHES, 2-3% Po, Py ASSOCIATED WITH CARBONATE IN THE MAGNETITE

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
120	Py			BBGM	125.0'		
	-		100		125.0'	2.0'	18641
					129.0'	4.0'	18642
130	0.5%	129					
	2-3% Po, Py				133.0'	4.0'	18643
	0.5%		100		135.0'	2.0'	18644
140		139					
	0.5% - 1.0%		100		142.5'		
					146.5'	4.0'	18645
	2.5% Po				148.5'	2.0'	18646
	-	149			150.5'	2.0'	18647
	-					3.0'	18648
	2.5% Po, Py, CPY				152.5'		
	-		100		155.5'	2.0'	18649
	-				157.5'	2.0'	18650
	-	159					
	-		100				
	-				178.7		
	-	169				4.0	18651
	2-3% Po, Py		100		174.7		
		179					

HOLE NO. ML-93-91 | PROJECT: 1446 | PAGE NO: 4 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT. 6, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+70 S ft. 5+25 W ft. | DATE FINISHED: OCT. 7, 1993 | SCALE: 1" TO 10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 389' | LOGGED BY: [illegible]

ALTERATION: CHLORITE | SILICIFIED | CALCEDONE | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP. INT. | ESTIMATED

DESCRIPTIVE GEOLOGY

SECTION

180

170.7' - 189.8' LEAN IRON FORMATION.

CONT. . . . .

100

189.8' - 219.5' GABBRO.

189

Grad Corr

AS IN 156.5' - 161.7' WITH MINOR QTZ-CARB-FELD VEINS AND SOLITE NIL - TRACE SULPHIDE

FROM 239.0' - 279.5' OCCASIONAL FELDSPAR PHENOCRYST < 1% OF UNIT (0.5 - 1.5 cm)

190

DIP TEST 45°

100

199

200

100

209

210

214.0'

100

214.0' 2.0' 18652

217.0' 1.0' 18653

219.0' 2.0' 18654

219

220

TRACE

100

229

230

TRACE 0.5%

100

239

HOLE NO. ML-93-91 | PROJECT: 1446 | PAGE NO: 5 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT, 6, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+70 S & 5+25 W | DATE FINISHED: OCT, 7, 1993 | SCALE: 1" = 10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 389' | LOGGED BY: S.M

ALTERATION (CHLORITE, SERICITE, CARBONATE) | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP. INT. | ESTIMATED

189.8' - 279.6' GABBRO

CONT. . . .

240

250

260

270

279.5 283.5 IRON FORMATION

DARK BLACK - GREEN, FINE GRAINED, MASSIVE, UNIT IS ALMOST ALL CHERT, 1-2% Py, Po FRACTURE FILL

283.5' - 340.0' GABBRO

AS IN 155.5' - 161.7' WITH MINOR - MODERATE QTZ - CARB VEINLET NETWORK, OCCASIONAL QTZ - CARB VEINS (1.5 - 9cm) 3-5% Py, Po.

280

290

3 QTZ-CARB VNS, 2-3% Py, Po

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
240	-		100			
		249				
250	-		100			
		259				
260	-		100			
		269				
270	-		100			
		279		279.0		
280	1-2% Py, Po			283.0	4.0	18655
			100	286.5	3.5	18656
		289		288.5	2.0	18657
				290.5	2.0	18658
290	3-5% Py, Po			292.5	2.0	18659
			100	294.5	2.0	18660
		299		299.0		

HOLE NO. ML-93-90 | PROJECT: 1446 | PAGE NO: 6 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT. 6, 1993. | REP. TO CLAIM CORNER:

COORDINATES: 3+70 S N 5+25 W E | DATE FINISHED: OCT. 7, 1993 | SCALE: 1" TO 10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 389' | LOGGED BY: FM

SECTION	ALTERATION: CHLORITE	ALTERATION: SILICIFIED	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300							283.5'- 340.0' GABBRO						300.0'	4.0'	18661
							CONT....		-		100		304.0'	4.0'	18662
310									-	309	100				
320									-	319	100				
330									-	329	100				
340							340.0'- 353.0 BANDED IRON FORMATION. DARK BLACK GREEN, FINE GRAINED, ALTERNATING BANDS OF CHERT AND MAGNETITE, MINOR PERVASIVE CHLORITE MINOR CARBONATE, OCCASIONAL CARBONATE VEINS (0.5- 1.5cm) 2-3% Py, Po		2-3% Py Po	339	100		340.0'	----	----
													344.0'	4.0'	18663
350										349			348.0'	4.0'	18664
							353.0'- 369.5' FELDSPAR PORPHYRY MEDIUM GREY, MASSIVE, FINE - MEDIUM GRAINED GROUNDMASS WITH COARSE GRAINED SUBHEDRAL PLAGIOCLASE, 2-7mm 20-25% OF TOTAL UNIT		1% Py		100		352.0'	4.0'	18665
									TRACE	359					

OR CARB 2-3% Py, Po

MAFIC DYKE

GRAD CONT

HOLE NO. ML-93-91 | PROJECT: 1446 | PAGE NO: 7 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT, 6, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+70S & 5+25W. | DATE FINISHED: OCT, 7, 1993 | SCALE: 1" TO 10'

INCLINATION: -45 | BEARING: 200° | TOTAL DEPTH: 389' | LOGGED BY: S.M.

SECTION	ALTERATION: CHLORITE	ALTERATION: SILICIFIED	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
360						V O L V O	353.0' - 369.5' FELDSPAR PORPHYRY 1-2 mm ROUNDED DARK GREEN PHENO'S (2-3% OF UNIT) VERY MINOR CARBONATE.	TRACE		100	EDRM	369.5'		
370							369.5' - 379.0' GABBRO AS IN 55.5' - 161.7' MINOR - MODERATE CARBONATE NETWORK	TRACE -0.5%	369	100		370.5' 379.5'	1.0 2.0	18666 18667
380							379.0' - 381.7' IRON FORMATION. AS IN 279.5' - 283.5'	1-2% 0.6	379			329.0' 381.7'	2.7'	18668
							381.7' - 383.7' CHLORITIZE MUDSTONE DARK GREEN, FINE GRAIN, MASSIVE, MODERATE POROUS CHLORITE, MINOR - MODERATE CARBONATE FRACTURE FILL	—						
							383.7' - 389.0' GABBRO AS IN 155.5' - 161.7'	—		100				
							DIP TEST 45° 389.0' E.O.H							

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 1 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REP. TO CLAIM CORNER:

COORDINATES: 4+25 S N 5+00 W E | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 429' (130.8m) | LOGGED BY: CTW

ALTERATION: CHLORITE, CARBONATE | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES (PY) | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

0

0.0' - 35.0' OVERBURDEN

CASING REMOVED

BW

35.0' - 59.0' BANDED IRON FORMATION

DARK GREEN - BLACK, 2-10mm BEDS, MODERATELY PLANAR, BLACKY. CHLORITIC UNITS FRIABLE. MODERATELY TO STRONGLY MAGNETIC. 46.0'-47.0' UP TO 15% SULPHIDIZED BIF (PYRITE) FROM 47.0'-59.0' 65% RECOVERY. MINOR CHLORITE.

PY

59.0' - 64.0' DARK YELLOW-BUFF MUD

DARK YELLOW-BUFF, EXTREMELY FRIABLE MUD WITH A SILTY TEXTURE.

SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
44.0'		
46.0' - 47.0'	2.0'	18669
47.0' - 49.0'	1.0'	18672
49.0'	2.0'	18671

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 2 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 4+25 S N: 5+80W E: | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 429' | LOGGED BY: CTW

SECTION	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	ORT. MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60						**59.0'-64.0' DARK YELLOW BUFF MUD**		—		50				
						CONT...								
						64.0'-69.0' WHITISH-GREY MUD			69'					
70						LIGHT WHITISH-GREY MUD, EXTREMELY FRIABLE, CLAY-LIKE TEXTURE.		—		40				
						69.0'-89.0' BANDED IRON FORMATION AND BLOOD-RED MUD								
						DARK BLOOD-RED, 69.0'-71.0' BIF, VERY WEAKLY MAGNETIC. EXTREMELY FRIABLE FROM 71.0'-89.0'			79'					
80								—		40				
									89'					
90						**89.0'-99.0' GREEN GREY MUD**								
						MEDIUM GREEN GREY, FROM 98.0'-99.0' POSSIBLY HIGHLY WEATHERED GABBRO. VERY FRIABLE FROM 89'-98'.		—		50				
						99.0'-132.0' GABBRO			99'					
100						DARK GREY-GREEN, MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 40° TCA. WEAK CARBONATE/CHLORITE FILLED FRACTURES. NO SULPHIDES.		—		95				
									109'					
110								—		95				
									119'					

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 3 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 4+25 S N 5+00 W E | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 429' | LOGGED BY: CPV

SECTION	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	MINERAL: PYRITE	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
120						**99.0' - 132.0' GABBRO** CONT...		—		95	BQTK			
130					BROKEN CONT.	**132.0' - 141.2' SILICIFIED MAFIC TUFF** MEDIUM BROWNISH-GREY GREEN, MEDIUM TO COARSE GRAINED (UP TO 5mm). WEAKLY FOLIATED @ 50° TCA. PATCHY WEAK TO MODERATE SILICIFICATION (IRREGULAR 5-15mm). ALMOST CHERTY IN APPEARANCE. NO SULPHIDES NOTED.		—	129'	95				
140					GRADATIONAL CONT.	**141.2' - 152.0' GABBRO** AS IN 99.0' - 132.0'		—	139'	100				
150					CONT @ 35° TCA	**152.0' - 169.0' MAFIC TUFF** DARK GREY GREEN, FINE TO MEDIUM GRAINED (UP TO 2mm) WEAKLY FOLIATED @ 60°-65° TCA. MINOR CHLORITIC FRACTURES. NO SULPHIDES NOTED.		—	149'	95				
160								—	159'	95				
170					BROKEN CONT.	**169.0' - 179.0' BANDED IRON FORMATION** DARK GREY BLACK, FINE GRAINED, CHERTY, 1-3mm CONTORTED BEDS. MODERATELY BROKEN WITH 45% RECOVERY. CONTAINS UP TO 15% FRACTURE CONTROLLED FINE GRAINED PYRITE. LAST 15 cm IS DARK GREEN MASSIVE MAFIC VOLCANIC OR MAFIC TUFF.		3 TO 5	169'	45		169.0'	10.0 (9.5)	18672
					BROKEN CONT.			—	179'	—		179.0'	—	

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 4 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 425 S 5+80 W | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 270° | TOTAL DEPTH: 429' | LOGGED BY: CTW

SECTION	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	QTZ-MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180						DESCRIPTIVE GEOLOGY		—		70				
190								—	189'	90				
200						DIP TEST @ 45°		0.1	199'	95				
210								—	209'	100				
220								—	219'	100		223.0'		
230						BROKEN CORE		1 TO 2	229'	100		227.0' 230.0' 233.0' 236.0'	4.0'	18673
								1 TO 2	239'	100		239.0'	4.0' 3.0'	18674 18675

179.0' - 223.0' GABBRO

DARK GREY GREEN, MASSIVE, FINE TO MEDIUM GRAINED, MINOR CHLORITE, FELDSPAR FILLED FRACTURES. TRACE PYRITE. FROM 179.0' - 185.0' VERY BADLY WEATHERED, LIGHT GREY COLOUR, SIMILAR BETWEEN 190.0' AND 200.0'

223.0' - 249.0' BANDED IRON FORMATION

DARK GREEN AND BLACK, 1-15 mm BEDS, STRONGLY MAGNETIC. BEDS NOT CONTORTED BUT WEAKLY BLOCK FAULTED AS WELL AS WEAKLY FRACTURED AND FILLED WITH CARBONATE AND PYRITE. UP TO 2-3% PYRITE.

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 5 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 4+25 S N 5+80 W E | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 429' | LOGGED BY: CTW

SECTION	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240						**223.0'-249.0' BANDED IRON FORMATION** CONT...		1 TO 2		100	BQTK	248.0'	4.0'	18676
												246.0'	3.0'	18677
					CNT @ 80° TCA	**249.0'-270.0' GABBRO** AS IN 179.0'-224.0' WITHOUT ANY WEATHERIDIGIE. PEGMATTAR GABBRO. CM-SCALE QUARTZ-CARBONATE FRACTURE/VEINS WITH NIL TO TRACE PYRITE. UNIT IS MASSIVE.			249'				243.0'	3.0'	18678
250								1 TO 0.1		100				
												239.5'		
260												263.5'	4.0'	18679
										100				
									259'			270.0'		
					SHARP CNT @ 50° TCA	**270.0'-300.5' BANDED IRON FORMATION** AS IN 223.0'-249.0'						273.0'	3.0'	18680
270								1 TO 2		100				
									279'			286.0'		
280								1 TO 2		100		289.0'	3.0'	18681
									289'					
290								1 TO 2		100		297.5		
									299'	----			3.0'	18682

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 6 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 4+25 S N 5+80 W E | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 429' | LOGGED BY: CTW

ALTERATION | FRACTURING | QTZ MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % PY SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP INT. | ESTIMATED

300

300.5'-302.8' SHEARED MAFIC TUFF

MEDIUM GREY-GREEN, FINE TO MEDIUM GRAINED, MODERATELY TO WELL SHEARED @ 55°-60° TCA. MODERATE CARBONATE FILLED FRACTURES AND PATCHES (BRECCIA FILLING). NIL TO TRACE PYRITE

302.8'-304.8' BANDED IRON FORMATION

AS IN 223.0'-249.0' BUT WITH MAPE CARBONATE FILLED FRACTURES, 1-2% PY, Po. WEAKLY SHEARED ALONG BEDDING (60° TCA)

304.8'-312.0' SHEARED MAFIC TUFF

AS IN 300.5'-302.8'

312.0'-316.4' BANDED IRON FORMATION

AS IN 302.8'-304.8' WITH 1-2% PY, Po

316.4'-321.0' MAFIC TUFF

AS IN 152.0'-169.0' WITH MINOR QUARTZ-CARBONATE PATCHES

321.0'-363.4' BANDED IRON FORMATION

AS IN 300.5'-302.8'

SECTION	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTIMATED
300	0.1 TO 1			BQTK	300.5'		
					302.8'	2.3'	18683
	1-2		100		305.8'	3.0'	18684
	1 TO 0.1	309'			309.0'	3.2'	18685
310					312.4'	4.0'	18686
	1-2		100		316.4'	4.4'	18687
320	—	34'					
	— TO 0.5		100				
		329'			331.8'		
330	1 TO 2		100		335.3'	3.5'	18688
					339.0'	3.7'	18689
		339'			342.0'	3.0'	18690
340	1 TO 2		100				
		349'			349.0'		
					353.0'	4.0'	18691
350	0.1 TO 0.5		100		357.0'	4.0'	18692
		359'	—	V		4.0'	18693

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 7 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 4+25 S N 5+80 W E | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 429' | LOGGED BY: CTW

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

321.0'- 363.4' BANDED IRON FORMATION

CONT...

363.4'- 389.0' SILICIFIED MAFIC VOLCANIC

DARK TO MEDIUM GREY-GREEN, MASSIVE FINE TO MEDIUM GRAINED, PATCHY SILICIFICATION, MODERATE FRACTURE CONTROLLED CARBONATE, FELDSPAR, EPIDOTE ALTERATION. NIL TO TRACE PYRITE.

389.0'-396.0' BRECCIATED MAFIC VOLCANIC

MEDIUM GREEN-GREY, FINE GRAINED, WEAKLY TO MODERATELY BRECCIATED WITH CARBONATE INFILLING. 2cm QUARTZ-CARBONATE VEIN @ 395.0' WITH 2-3% COARSE PATCHES OF PO.

396.0'- 429.0' SILICIFIED MAFIC VOLCANIC

AS IN 363.4'- 389.0'

SECTION	ALTERATION: EPIDOTE	SILICIFICATION	CHLORITE	CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
360								0.2-1				361.0'	4.0'	
							SHARP CONT @ 50° TCA					363.4'	2.4'	18634
								—		100				
370									369'					
								—		100				
380									379'					
								0.2-1						
										100				
390							GRADATIONAL CONT		389'			389.0'		
								0.5-10 Po				393.0'	4.0'	18695
										100		396.0'	3.0'	18696
400									399'					
								— To 0.1		100				
410									409'					
								—		100				
									419'					

HOLE NO. ML-93-92 | PROJECT: 1446 | PAGE NO: 8 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 9, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 4+25 S N. 5+80 W E. | DATE FINISHED: OCT 11, 1993 | SCALE: 1"=10'

INCLINATION: -45° | BEARING: 200° | TOTAL DEPTH: 429' | LOGGED BY: CTW

SECTION	ALTERATION: Epidote	ALTERATION: Silicification	ALTERATION: Chlorite	ALTERATION: Carbonate	FRACTURING	QTZ. MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
420								396.0'- 429.0' SILICIFIED MAFIC VOLCANIC CONT...		PY 0.1		100	BQTK			
								DIP TEST @ 40°								
								END OF HOLE 429'			429'					

HOLE NO. ML-93-93 | PROJECT: 1446 | PAGE NO: 1 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 12, OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 0+83 N. 3+00 W E | DATE FINISHED: 13, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -55° | BEARING: 200° | TOTAL DEPTH: 459' (139.9m) | LOGGED BY: SM

ALTERATION: CHLORITE | CARBONATE | EPIDOTE

FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION

DESCRIPTIVE GEOLOGY

0 - 30.0' OVERBURDEN

CASING REMAINS

30.0' - 46.0' GABBRO

DARK GREEN/WHITE, EQUIGRANULAR, SECTION 31.0 - 32.5' UNIT COARSE GRAINED PLAG CRYSTALS UP TO 1.5cm. FINE - MEDIUM GRAINED MAFICS (50%) MEDIUM - COARSE PLAG 50%. 31.0' - 32.5' SEEMS MODERATELY ALTERATION OF FELDSPARS, TRACE - 0.1% SULPHIDES

46.0' - 60.8' SHEARED GABBRO

DARK GREY - GREEN, MEDIUM GRAINED, 50% MAFIC, 50% PLAG, WELL FOLIATED / SHEARED @ 60-65°, FELDSPARS AND AMPHIBOLES STRETCHED 0.2 - 0.5cm, UNIT IS FAIRLY CHLORITIC BROKEN UP INTO ANGULAR PIECES, WITH SEVERAL SMALL (3.5cm) MUD SEAMS, LOWER PERIDOTITE CONTACT NOT SULPHIDES OBSERVED

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
0				BW			
10		9					
20		19					
30		29		NRW			
40		39	60				
50		49	50				
		59	70				

HOLE NO. ML-93-93 | PROJECT: 1446 | PAGE NO: 2 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: [illegible] 1993 | REF. TO CLAIM CORNER:

COORDINATES: 0+83 N. . 3+00W | DATE FINISHED: [illegible] 1993 | SCALE: 1" = 10'

INCLINATION: -55° | BEARING: 200° | TOTAL DEPTH: 459' | LOGGED BY: [illegible]

ALTERATION | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION

DESCRIPTIVE GEOLOGY

60.8' - 64.3' GABBRO

AS IN 30.0' - 46.0' UPPER AND LOWER CONTACT ARE FELDSPAR BLEACHED (70%), 30% MAFIC

64.3' - 73.5' SILICIFIED GABBRO

AS IN 46.0' - 60.8'

73.5 - 91.0' GABBRO

AS IN 30.0' - 46.0' UNIT BECOMES FINER GRAINED DOWN HOLE.

91.0' - 99.4' BRECCIATED GABBRO

DARK BLACK GREEN, FINE GRAINED, WEAKLY SILICIFIED, UNIT IS VUGGY IN APPEARANCE DUE TO WEATHERING OF CARBONATE, BRECCIATED TEXT, 97.5' - 99.4 IS UNCONSOLIDATED COARSE GRAINED, CHLORITE ALTERATION OF MATRIX, 1-2% Py, Po ASSOCIATED WITH CARBONATE

99.4' - 121.0' GABBRO

AS IN 30.0' - 46.0' BUT WITH DARK-MEDIUM GREEN CARBONATE IN FRACTURES, FINE GRAINED MATERIAL, UPPER CONTACT IS WEAKLY FOLIATED @ 56° 3-5% Py, LOWER CONTACT IS WEAK - MODERATELY FOLIATED @ 30-35°. MODERATE CARBONATE, 3-5% Py.

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
Py			BQ			
-		70				
-	69					
-		85				
-	79					
-		100				
-	89					
1-2%		100		154'		
	99			194'	4.0	18697
3-5%						
-		100		103.4	4.0	18698
-	109					
-		100		117.0		
	119				4.0	18699

HOLE NO. ML-93-13 | PROJECT: 1446 | PAGE NO: 3 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 12, OCT, 1993 | REP. TO CLAIM CORNER:

COORDINATES: 0+83 N. 3+00W E. | DATE FINISHED: 13, OCT, 1993 | SCALE: 1" to 10'

INCLINATION: -55° | BEARING: 200° | TOTAL DEPTH: 457' | LOGGED BY: CM

ALTERATION: SERICITE | CHLORITE | CARBONATE | HEMATITE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
120		994 - 1210 GABBRO cont...				BQWL	120.0'	4.0	18699
	Qtz Cpt	1210 - 1313 QUARTZ GABBRO MEDIUM BLACK-GREY, MEDIUM GRAINED, QUARTZ 20%, FELDSPAR 30% MAFIC 50%, MINERALS, LIGHT CARBONATE 'EYE' FORMING INCL, OCCASIONAL GABBRO FRAG, 0.5 - 1% DISSEMINATED PY	0.5-1.0%	129	100		125.0'	4.0'	18700
							129.0'	4.0'	18701
130	Hem Cpt @ 136° Sericite Schist/Gouge Sharp Cnt	1313' - 1540' SILICIFIED - BRECCIATED GABBRO DARK GREEN, FINE - MEDIUM GRAINED, 50% MAFIC 50% FELDSPAR, MODERATELY FOLIATED, 1520' - 1540' IS STRONGLY FOLIATED @ 50°, UNIT IS MOD WEAK - MODERATELY PERVASIVELY SILICIFIED, MINERALIZED BY SPARSE CHALCOPYRITE IN FRACTURE FILL AND LAYERS, WEAK - MODERATE PERVASIVE CHLORITE, 1-3% PY ASSOCIATED WITH CARBONATE.	0.5-1.0%				131.3'	2.3'	18702
					100		135.3'	4.0'	18703
140			1-2%	139			139.3'	4.0'	18704
					100		143.3'	4.0'	18705
				149			147.3'	4.0'	18706
150	Bedrock Cnt	1540' 1663 TONALITE LIGHT REDDISH WHITE, MEDIUM GRAINED, QUARTZ 50%, FELDSPAR 40% MAFIC 10%, WEAK - MODERATE FOLIATED @ 40°, UNIT IS MODERATELY BLEACHED AND SERICITIZED, MODERATE HEMATITE STAINING, MINOR CARBONATE FRACTURE FILL, NO SULPHIDES OBSERVED	-		90		151.3'	4.0'	18707
							156.0'	27'	18708
				159			158.0'	4.0	18709
160			-				162.0'	4.0	18710
					70		166.3'	4.3'	18711
	Sharp Cnt @ 57°	1663' - 2040 SHEARED BRECCIATED GABBRO AS IN 1313' - 1540' BUT FROM 1663' - 1750' UNIT IS HIGHLY SHEARED AND CONTORTED AND BRECCIATED WITH ROUNDED FRAGMENTS, MODERATE - INTENSE CARBONATE AS FRACTURE FILL, MODERATE SERICITE, MINOR HEMATITE STAINING, UNIT BECOMES LESS FOLIATED MORE MASSIVE AND CONGLOMERATIC DOWNHOLE. NIL - TRACE SULPHIDES. OCCASSIONAL MINOR AGM ALTERATIONAL	-	169			170.3'	4.0	18712
170	AGM				100		174.3'	4.0	18713
	Qtz-Carb.			179			178.3'	4.0	18714
								4.0	18715

HOLE NO. ML-93-93 | PROJECT: 1146 | PAGE NO: 4 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 12, OCT 1993 | REF. TO CLAIM CORNER:

COORDINATES: 0+83 N 3+00 W E. | DATE FINISHED: 13, OCT 1993 | SCALE: 1" TO 10'

INCLINATION: -55° | BEARING: 200° | TOTAL DEPTH: 459' | LOGGED BY: SM

SECTION	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	ALTERATION: EPIDOTE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
180														182.3	4.0'	18715
								166.3 - 206.0 SHEARED - BRECCIATED GRANITE		-		100		186.3	4.0'	18716
								CONT						189.0	2.7'	18717
190											189					
										-		100				
											199					
200								DIP TEST 52°								
								GRAN CNT		-						
								206.0 - 322.0 GRANITE				100				
								INCLUDING QUARTZ-FELDSPAR PORPHYRY, MICROGRANITE, GRANITE, 50% FELDSPAR, 50% MATRIX, MASSIVE, LIGHT		-	209					
210								CONTRASTING IN FINE GRAINED COMPONENT (2 TO 5% OF UNIT), MODERATE PERVASIVE EPIDOTE ALTERATION, SLIGHT-								
								MODERATE CHL-CARB VEINLETS (0.01 - 2.0 cm), LIGHT		-		100				
								ALTERATION ASSOCIATED WITH AT LEAST TWO GENERATIONS,								
								0.5 - 1.0% DISSEMINATED PY, ALTERATION OF FELDSPARS			219					
220								CATACLASTIC / DECREASES DOWNHOLE								
										0.5%		100				
											229					
230										0.5%		100				
											239					

HOLE NO. ML-93-93 | PROJECT: 1446. | PAGE NO: 5 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 12, OCT 1993 | REF. TO CLAIM CORNER:

COORDINATES: 0+83 N. 3+00 W E. | DATE FINISHED: 13, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -55° | BEARING: 270° | TOTAL DEPTH: 459' | LOGGED BY: SM

SECTION	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CALCITE	ALTERATION: EPIDOTE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240								204.0 - 322.0' GABBRO								
								CONT		1%		100				
250											249					
										- 0.5%		101				
260											259					
										-		103				
270											269					
										-		100				
280											279					
										-		100				
290											289					
										-		100			298.0	
											271				2.0'	18118

HOLE NO. ML-93-93 | PROJECT: 1446 | PAGE NO: 6 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 12, OCT 1993 | REF. TO CLAIM CORNER:

COORDINATES: 0+83 N. 3+00W | DATE FINISHED: 13, OCT 1993 | SCALE: 1" TO 10'

INCLINATION: -55° | BEARING: 200° | TOTAL DEPTH: 459' | LOGGED BY: S.M

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	ALTERATION: EPIDOTE	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
300						Qtz					BQTW	301.0'	1.0'	18719
												302.4'	2.0'	18720
								-		100				
310				-	-				309					
								-						
								0.5%		100				
320								-	319			319.6		
												322.0'	2.5'	18721
								trace		100		326.0'	4.0'	18722
									329			330.0'	4.0'	18723
								trace		100		334.0'	4.0'	18724
												338.2'	4.2'	18725
340									339					
								0.5%		100		345.3'		
												348.4'	3.1'	18726
350									341					
								0.5%		100				
									351					

DESCRIPTIVE GEOLOGY

204.0 - 322.0' GABBRO

CONT. . . .

322.0' - 338.2' SILICIFIED TONALITE

LIGHT GREENISH - GREY, MEDIUM GRAINED, QUARTZ ... TEXTURE 30% ... 5%, MASSIVE - WEAK SILICIFIED @ 40-45°, MEDIUM ... SILICIFICATION, ... MINERALIZATION ... FINE ... BANDING SEEN, OCCASIONAL QTZ-CARB VEINS (0.5-4.0cm) 1% ... ACCOMPANIED WITH VEINS

338.2 - 365.7' PORPHYRITIC GABBRO

DARK GREEN, FINE - MEDIUM GRAINED ... CHLORITE ... WITH 2-3% EQUIGRANULAR (1-5mm) FELDSPAR PHENOCRYSTS MASSIVE - WEAKLY FOLIATED, PERV. - MODERATE CARBONATE ALT. FRACTURE FILL, TRACE - 1.0% QTZ-CARB VEINS/STRINGERS (VARIES) 345.3' - 348.4' 15-20cm QTZ-CARB-ANKERITE VEIN MINERAL SUB-PARALLEL TO A 356.0' - 362.0' FOLIATION IS BETTER DEVELOPED WITH ... CONTACT INCREASE IN CHLORITE 361.0' - 365.7' PERVASIVE INCREASE TO 5-10% OF UNIT.

Shear cut @ 65°

HOLE NO. ML-93-93 | PROJECT: 1446 | PAGE NO: 7 OF 8

CASING DOLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 12, OCT 1993 | REF. TO CLAIM CORNER:

COORDINATES: 0+83 N. 300W E. | DATE FINISHED: 13, OCT 1993 | SCALE: 1" TO 10'

INCLINATION: -55° | BEARING: 200° | TOTAL DEPTH: 459' | LOGGED BY: S.M

ALTERATION: CHLORITE | SERICITE | CARBONATE | EPIDOTE

FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

338.2' - 365.7' PORPHYRITIC GABBRO

CONT....

365.7' - 459.0' GABBRO

DARK [illegible], FINE [illegible], [illegible] IRREGULAR, WEAK [illegible] CONTACTS [illegible] (1mm - 30cm AVERAGE 1-2mm), EPIDOTE ALTERATION ASSOCIATED WITH CARBONATE VEINLETS, 2-3% CHLORITE OCCURING AS INCIPIENT [illegible] AND PATCHY DISCRIMINATION THROUGHOUT UNIT, 0.5-1% PY AS FRACTURE FILL AND IN VEINLETS, FROM 439.0 - E.O.H UNIT IS COARSE GRAINED WITH PERVASIVE EPIDOTE ALTERATION OF FELDSPARS.

DIP TEST 47°

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED
TRACE		
TRACE		100
	369	
0.5%		100
	379	
0.5%		100
	389	
0.5%		100
	399	
-		100
	409	
1.0%		100
	419	

HOLE NO. ML-93-93 | PROJECT: 1446 | PAGE NO: 8 OF 8

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 12, OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 0+83 N. 3+00W E. | DATE FINISHED: 13, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -55° | BEARING: 200° | TOTAL DEPTH: 459' | LOGGED BY: S.M

SECTION	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	ALTERATION: EPIDOTE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES BY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
420													BQTW	422.5'	—	—
										1-2%		100		426.5'	4.0	18727
430											429			429.5'	3.0	18728
														433.5'	4.0	18729
										1.0%		100		437.5'	4.0	18730
440											439			439.5'	2.0	18731
														443.5'	4.0	18732
										0.5%		100			—	—
450											449					
										0.5%		100				
								459.0' E.O.H.			459					

Drawing notes:
- Fracturing: Irregular; Qtz-Carb; Hematite 1-2% fm
- Qtz-Carb 3-5% fm

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 1 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT. 14 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 21+70 W | DATE FINISHED: OCT. 15 1993 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 40° | TOTAL DEPTH: 499' (152.1m) | LOGGED BY: CTW

SECTION	ALTERATION: EPIDOTE	ALTERATION: AGM	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	QTZ-MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
0								**0.0' - 4.0' OVERBURDEN** CASING REMAINS					BW			
10								**4.0' - 72.3' ANORTHOSITE** MEDIUM GREY GREEN, MASSIVE TO VERY WEAKLY FOLIATED @ 40-50°TCA COARSE GRAINED (3-5mm) UP TO 50% WHITISH-GREY ANORTHOSITE SET IN A DARK GREENISH GREY GROUNDMASS. OCCASIONAL QUARTZ-CARBONATE VEINS AND VEINLETS. NO SULPHIDES NOTED.			9	100	3048.m			
20											19	100				
30											29	100				
40											39	100				
50											49	100				

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 2 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 14, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9100 N. 2170 W E | DATE FINISHED: OCT 15, 1993 | SCALE: 1:10'

INCLINATION: -55° | BEARING: 40° | TOTAL DEPTH: 433' | LOGGED BY: CTW

SECTION	ALTERATION: EPIDOTE	ALTERATION: ALBITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60																
								4.0'-72.5' ANORTHOSITE CONT...		—		100				
70								**72.5'-79.0' SHEARED BRECCIATED ANORTHOSITE** DARK GREEN TO APPLE GREEN, MEDIUM GRAINED, WEAKLY SHEARED @ 80° TCA. WEAK TO MODERATE CM-SCALE CARBONATE VEINS AND VEINLETS @ 80°CA. MODERATE PERVASIVE APPLE GREEN ALTERATION. VERY MINOR SERICITE. NO SULPHIDES NOTED.		—	69	100		72.5' 75.5' 79.0'	3.0' 3.5'	18733 18734
								79.0'-147.5' GABBRO DARK TO MEDIUM GREEN, MEDIUM TO FINE GRAINED (<2mm), MASSIVE BECOMING WEAKLY SHEARED @ 50° TCA DOWN HOLE. MINOR CARBONATE/EPIDOTE VEINLETS @ 50° TCA. VERY MINOR CM-SCALE QUARTZ-CARBONATE VEINS. TRACE Po. FINER GRAINED FROM 117.0'-125.0' AND 130.0'-147.5'		---	79	100				
80											89					
90										— TO 0.1 Po		100				
100											99					
												100				
110											109					
										--		100				
											119					

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 3 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 15, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 21+70 W E. | DATE FINISHED: OCT 16, 1993 | SCALE: 1"=10'

INCLINATION: -55 | BEARING: 40° | TOTAL DEPTH: 477' | LOGGED BY: CTH

ALTERATION: Bio Biotite | Aam | Serpentine | Carbonate | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION | % SULPHIDES py | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

79.0' - 147.5' GABBRO

CONT...

147.5' - 150.3' SHEARED BRECCIATED GABBRO

MEDIUM OLIVE GREEN-GREY, FINE GRAINED MODERATELY SHEARED @ 80° TCA. MINOR CM-SCALE PATCHES OF CARBONATE, TRACE PYRITE.

150.3' - 154.0' SHEARED BRECCIATED ANORTHOSITE

AS IN 72.5' - 79.0' EXCEPT WITH STRONG AAM ALTERATION

154.0' - 172.0' ANORTHOSITE

AS IN 4.0' - 72.5' WITH MINOR AAM ASSOCIATED WITH MINOR SHEARING.

172.0' - 185.5' GABBRO

AS IN 79.0' TO 147.5' BUT FINER GRAINED WITH TRACE PO AND CPY. WEAKLY SHEARED @ 45° TCA DOWN HOLE.

Sample Interval	% Rec'y. Samp. Int.	Estimated
147.5'		
150.3'	2.8'	18735
154.0'	3.7'	18736
165.0'	4.0'	18737
169.0'		

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 4 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT. 14, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 21+70W | DATE FINISHED: OCT. 15, 1993 | SCALE: 1"=10'

INCLINATION: -55 | BEARING: 40° | TOTAL DEPTH: 477' | LOGGED BY: CTW

ALTERATION: EPIDOTE, AGM, SERICITE, CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

172.0'-185.5' GABBRO

CONT...

185.5'-199.4' QUARTZ VEIN

MILKY WHITE, MASSIVE, UP TO 15% CARBONATE AND 10% HOST ROCK INCLUSIONS (AGM). 3cm SECTION OF LIGHT SMOKY GREY QUARTZ @ 198'. SEVERAL mm SIZE LIGHT PINK NEEDLE LIKE TO TABULAR CRYSTALS BETWEEN 186.0'-189.0'. NIL TO TRACE FRACTURE CONTROLLED PYRITE.

199.4'-209.8' SHEARED BRECCIATED ANORTHOSITE

AS IN 150.3'-154.0' WITH TRACE FRACTURE CONTROLLED PYRITE.

209.8'-308.5' ANORTHOSITE

LIGHT APPLE GREEN TO GREY, COARSE GRAINED MASSIVE TO WEAKLY FOLIATED @ 20° TCA. MINOR PATCHES OF BRIGHT AGM ASSOC. WITH CARBONATE FRACTURES. NO SULPHIDES NOTED. ANORTHOSITE GRAINS LIGHT AGM SET IN A MEDIUM GREY GROUNDMASS. FROM 268.0'-281.0' CONTAINS WEAK TO MODERATE FRACTURE CONTROLLED CHLORITE?

IRREGULAR CONT.

DIP TEST @ 52°

SECTION	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180	0.1 Po				182.5'		
			100		185.5'	3.0'	18738
	TO 0.1	189			189.0'	3.5'	18739
190	— TO 0.1		100		193.0'	4.0'	18740
					197.0'	4.0'	18741
		199			199.4'	2.4'	18742
200					203.4'	4.0'	18743
	TO 0.1		100		206.9'	3.0'	18744
		209			209.8'	3.4'	18745
210	—		100		218.0'		
		219			221.0'	3.0'	18746
220	—		100				
		229					
230	—		100		236.0'		
		239			239.0'	3.0'	18747

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 5 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 15, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 2H70 W E. | DATE FINISHED: OCT 16, 1993 | SCALE: 1"=10'

INCLINATION: -55 | BEARING: 40° | TOTAL DEPTH: 477' | LOGGED BY: C.T.

ALTERATION: CHLORITE | AGM. | SERICITE | CARBONATE | FRACTURING | RIL MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240							
	—		100		245.0'		
					248.0'	3.0'	18748
250	—	249					
	—		100				
		259					
260	—		100				
		269			269.0'		
270	—		100		273.0'	4.0'	18749
		279					
280	—		100		284.0'		
					287.0'	3.0'	18750
		289					
290	—		100		293.0'	4.0'	18751
		297					

209.8'- 308.5' ANORTHOSITE

CONT...

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 6 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 15, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 2+70 W | DATE FINISHED: OCT 16, 1993 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 40° | TOTAL DEPTH: 499' | LOGGED BY: C.T.

SECTION	ALTERATION: AGM	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	QTZ. MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300							209.8'-308.5' ANORTHOSITE CONT...		-		100	60mm			
							308.5' - 477.0' GABBRO DARK GREEN, MEDIUM TO COARSE GRAINED, MASSIVE, MINOR CARBONATE VEINLETS. UP TO 3-5% COARSE (2-4mm) DARK BLACK GRAINS (AMPHIBOLE?) THROUGHOUT. SLIGHTLY MAGNETIC TRACE DISSEMINATE PO.		-	309					
310							SHARP CNT @70° TCA		-		100				
										319					
320									TR to 0.1 Po		100				
										329					
330							FINER GRAINED		-		100				
										339					
340									TR to 0.1 Po		100				
										349					
350									-		100				
										359					

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 7 OF 9

CASING DOLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 15, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 21+70 W | DATE FINISHED: OCT 16, 1993 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 48° | TOTAL DEPTH: 499' | LOGGED BY: CTW

ALTERATION: AGM | SERICITE | CARBONATE | FRACTURING | QTZ MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
360	1 to 2%	369	100	BQ	384.6	4.0	18752
370	1 to 2%	379	100		390.6		
380	1	389	100				
390	1 to 2%	399	100				
400	1	409	100				
410	1 to 2%	419	—				

300.5' - 477.0' GABBRO

CONT...

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 8 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: Oct 15, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 21+70 W | DATE FINISHED: Oct 16, 1993 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 40° | TOTAL DEPTH: 499' | LOGGED BY: CSW

SECTION	ALTERATION: AGM	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	Pyz MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
420							308.5'-477.0' GABBRO CONT...						423.0'		
						FINER GRAINED					100		426.0'	3.0'	18753
430									— To 0.1 Po	429			429.0'	3.0'	18754
						FINER GRAINED			— To 0.1 Po	439	100				
440									—		100				
						FINER GRAINED				449					
450									— To 0.1 Po		100				
460									—	459	100				
							477.0'-482.1 ANORTHOSITE AS IN 4.0'-72.5'			469			469.0'		
470									— To 0.1 Po		100		473.0'	4.0'	18755
						2 HARP CUT @ 60°				479					

HOLE NO. ML-93-94 | PROJECT: 1446 | PAGE NO: 9 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: Oct 15, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 9+00 N. 21+70 W | DATE FINISHED: Oct 16, 1993 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 40° | TOTAL DEPTH: 499' | LOGGED BY: CRW

SECTION	ALTERATION: Argillic	ALTERATION: Silicic	ALTERATION: Carbonate	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
480															
							482.1'- 499.0' Gabbro As in 308.5'- 477.0'		1 to 2% Py	489'	100				
490									-		100				
							DIP TEST @ 52° End of Hole @ 499'			499'					

HOLE NO. ML-93-95 | PROJECT: 1446 | PAGE NO: 1 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 16 OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 8+90 N. 72+40W E. | DATE FINISHED: 17 OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 309' (94.2m) | LOGGED BY: CHI

SECTION	ALTERATION: EPIDOTE	ALTERATION: CHLORITE	ALTERATION: AGM	ALTERATION: CALCITE	FRACTURING	MINERAL GR	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
0													BQ			
10													BOB-U			
20																
30																
40																
50																

DESCRIPTIVE GEOLOGY

0.0' - 15.0' CASING (CASING REMOVED)

15.0' - 36.5' GABBRO

INDIGO GREY GABBRO, MASSIVE, WEAKLY FOLIATED @ 50-55°, WEAK CHLORITIC ALTERATION OF FELDSPARS, MINOR (1-2 cm) QTZ-CARB VEINS

FINE GRAINED

34.5 - 46.5 ANORTHOSITIC GABBRO

INDIGO GREY, MEDIUM-COARSE GRAINED (2-8mm), 40-50% WHITISH GREY ANORTHOSITE (?) AS [illegible] CRYSTALLINED GABBROIC MATRIX, MINOR CARBONATE VEINLETS, MINOR 1-2% FLESH COLOURED CLAY LIKE MINERAL IRREGULAR PATCHES < 1mm DIAMETER.

GRAV CONT

46.5' - 119.0' ANORTHOSITE

LIGHT - MEDIUM GREY-GREEN, COARSE GRAINED (2-5mm), MASSIVE, 50-60% WHITISH GREY ANORTHOSITE SET IN A MEDIUM-DARK GREY GREEN FINE GRAINED GABBROIC MATRIX, GRADATIONAL CONTACTS OF CHLORITIC / EPIDOTIC ALTERATION, [illegible]

	19	10	
		90	
	29		
		90	
	39		
		100	
	49		
		100	
	54		

HOLE NO. ML-93-95. PROJECT: Iglig PAGE NO: 2 OF 6

CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED: 16, oct, 1993 REF. TO CLAIM CORNER:

COORDINATES: 8+90 N. 22+40 W E. DATE FINISHED: 17, oct, 1993 SCALE: 1" TO 10'

INCLINATION: -52° BEARING: 40° TOTAL DEPTH: 307' LOGGED BY: S A

SECTION	ALTERATION: EPIDOTE	ALTERATION: CHLORITE	ALTERATION: ACTM	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60				/			QTZ	46.5' - 119.0' ANORTHOSITE. QUARTZ / QUARTZ-CARB VEINS, MINOR QTZ / QTZ-CARB VEINS (1cm - 20cm), MINOR CARBONATE VEINLETS < 1mm		-			BQTK	42.0'		
														46.0'	20	18756
				/			QTZ-CARB ACTM					100		52.0'		
70											69			69.0'	20'	18757
										-						
												100				
80											71					
										-						
							FINE GRAINED					100				
90											89					
							VERY COARSE QTZ VEIN			-						
							QTZ/CARB				99					
100										-		90				
											109					
110										-		100				
								119.0' - 140.7' GNEISS			111					

HOLE NO. ML-93-95 | PROJECT: 1446 | PAGE NO: 3 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 16. OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 8+90 N. 72+40W E. | DATE FINISHED: 17, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 309' | LOGGED BY: [illegible]

COMMENTS:

AVE CORE REC'Y / HOLE

ALTERATION: EPIDOTE | CHLORITE | ACTN | CARBONATE

FRACTURING | MINERAL | GEOLOGY

% SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

DESCRIPTIVE GEOLOGY

SECTION

120

119.0' 140.7' GABBRO

115 10 15.0' - 34.5'

130

140

SHARP CNT @ 45°

140.7 - 178.5' BRECCIATED SHEARED GABBRO

MEDIUM GREY - GREEN, FINE - MEDIUM GRAINED, WEAK - MODERATELY BRECCIATED, CLEAR - INTENSE CARBONATE INFILL, WEAK EPIDOTE ALTERATION ON FELDSPARS.

150

160

INCREASE BRECCIATION

159.0'

163.0'

4.0'

18758

170

178.5' - 192.0' GABBRO

AC 10 15.0' - 34.5'

HOLE NO. ML-93-95 | PROJECT: 1446 | PAGE NO: 4 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 16, OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 8+90 N. 22+40W E. | DATE FINISHED: 17, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 301' | LOGGED BY: CM

ALTERATION: EPIDOTE | SERICITE | AGM | CARBONATE | FRACTURING | % MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

178.5' - 192.0' GABBRO.

CONT.....

192.0' 210.7' BRECCIATED SHEARED GABBRO

AS IN 140.7' - 178.5' BUT MORE INTENSELY BRECCIATED AND ALTERED, MODERATE AGM

210.7' - 230.3' ANORTHOSITE

AS IN 46.5' - 119.0' BUT WITH SERICITE AND AGM ALTERATION 224.0' - 224.9' @ 0. EPIDOTE VEIN

230.3 - 273.3 BRECCIATED, SHEARED GABBRO

AS IN 140.7' - 178.5' BUT WITH MODERATE FRACTURE FILL SERICITE, AGM ALTERATION BELOW LESS INTENSE DOLOMITIC MATRIX - 10% PY

SECTION	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180	Py			BQTK			
	-		100				
190	-	189			192.0'		
	-		100		196.0'	40'	18759
	-				200.0'	40'	18760
200	-	199			204.0'	40'	18761
	-		100		208.0'	40'	18762
	-	209			210.7'	27'	18763
210	-				214.7'	40	18764
	-		110		218.7'	40	18765
220		219			222.7'	40	18766
	-		100		226.7'	40	18767
	=	229			230.3'	36	18768
	trace		100		234.3'	40	18769
		239			238.3'	40	18770
	-	251			242.3'	40	18771

HOLE NO. ML-93-95. PROJECT: 1446 PAGE NO: 5 OF 6

CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED: 16, OCT 1993 REF. TO CLAIM CORNER:

COORDINATES: 8+90 N. 22+40 W E. DATE FINISHED: 17, OCT, 1993 SCALE: 1" = 10'

INCLINATION: -52° BEARING: 40° TOTAL DEPTH: 309' LOGGED BY: CM

SECTION	ALTERATION: EPIDOTE	ALTERATION: SERICITE	ALTERATION: ASH	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY
240						Qz	
250							
260							
270							
280							
290							

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

230.3 - 273.3 BRECCIATED SHEARED GABBRO

CONT . . . .

273.3 - 309.0 GABBRO

AS 150' - 345'

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
			BQTW	242.3	4.0	18771
1%		100		246.3	4.0	18772
	249			250.3	4.0	18773
				251.4	1.1	18780
Trace		130		256.5	5.1	18774
				258.3	1.8	18775
	259			262.3	4.0	18776
-		100		266.3	4.0	18777
	269			270.3	4.0	18778
-				273.3	3.0	18779
-		100				
	279					
-		100				
	289					
-		100				
	299					

HOLE NO. ML-93-95 | PROJECT: 1446 | PAGE NO: 6 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 16, OCT 1993 | REF. TO CLAIM CORNER:

COORDINATES: 8+90 N. 22+40 W | DATE FINISHED: 17, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -52° | BEARING: 90° | TOTAL DEPTH: 309' | LOGGED BY: SM

SECTION	ALTERATION: SILICIFICATION	ALTERATION: SERICITE	ALTERATION: CHLORITE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
30				/				273.3' - 309.0' GABBRO CONT..... 309.0' E.O.H		-	BQ					

HOLE NO. ML-93-96 | PROJECT: 1446 | PAGE NO: 1 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 17, 1993 | REF. TO CLAIM CORNER:

COORDINATES: B157 N. 214 47W E. | DATE FINISHED: OCT 18, 1993 | SCALE: 1"=10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 349' (106.4 m) | LOGGED BY: CTW

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

0.0 - 0.5' OVERBURDEN

No CASEING

0.5' - 124.0' GABBRO

DARK GREEN, FINE TO MEDIUM GRAINED WITH MINOR VERY COARSE GRAINED SECTIONS (cm-SCALE). MASSIVE. GRAIN SIZE VARIABLE ON A METRE SCALE. NIL TO TRACE Po. VERY MINOR CARBONATE FILLED FRACTURES.

SECTION	ALTERATION: AGM	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ	GEOLOGY	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0							—		95	BQW DRILLED			
10							—	9	100				
20							—	19	100				
30							—	29	100				
40							—	39	100				
50							— to 0.1 Po	49	100		49.0'		
							— to 0.1 Po cpy	53			53.0'	4.0'	18781

HOLE NO. ML-93-96 | PROJECT: 1446 | PAGE NO: 2 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 17, 1993 | REF. TO CLAIM CORNER:

COORDINATES: B+57 N. 21+47 W E. | DATE FINISHED: OCT 18, 1993 | SCALE: 1" : 10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 349' | LOGGED BY: CTW

SECTION	ALTERATION: AGM	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	QTZ MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60							0.5'- 164.0' GABBRO CONT...		-		100				
70									-	69	100				
80									-	79	100				
90							← CONTACT LOCATION		-	89	100				
									TR TO 0.1 Po						
100									-	99	100				
110									-	109	100				
									-	117					

HOLE NO. ML-93-96 | PROJECT: 1446 | PAGE NO: 3 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 17, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 8+57 N. 21+47 W | DATE FINISHED: OCT 18, 1993 | SCALE: 1"=10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 349' | LOGGED BY: CJW

ALTERATION: Mica, Sericite, Carbonate | FRACTURING | QTZ MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | DESCRIPTIVE GEOLOGY | % SULPHIDES (PY) | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

0.5'- 124.0' GABBRO

CONT...

124.0'- 140.3' BRECCIATED GABBRO

MEDIUM TO DARK GREEN GREY, FINE GRAINED, WEAKLY TO MODERATELY BRECCIATED WITH APPROXIMATE INFILLING, USUALLY SHEARED @ 70° TCA TRACE TO NIL PYRITE.

GRADATIONAL CONT

GRADATIONAL CONT

140.3'- 220.5' GABBRO

MEDIUM TO DARK GREEN AND WHITE, COARSE TO VERY COARSE GRAINED (4 UP TO 10mm), MASSIVE, MAFICS CONSIST OF PARTIALLY CALCITIZED PYROXENE AND AMPHIBOLE. TRACE PO OBSERVED. VERY LITTLE OTHER NOTED ALTERATION.

SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
124.0'		
128.0'	4.0'	18782
132.0'	4.0'	18783
136.0'	4.0'	18784
140.3'	4.3'	18785

HOLE NO. ML-93-96 | PROJECT: 1446 | PAGE NO: 4 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 17, 1993 | REF. TO CLAIM CORNER:

COORDINATES: B+57 N. 21+47W E: | DATE FINISHED: OCT 18, 1993 | SCALE: 1"=10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 349' | LOGGED BY: CTW

SECTION	ALTERATION: ABSN.	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTIMATED
180							**124.0'-220.5' GABBRO** CONT...		1 TO 0.5 Po	189	100	BQ(36.4mm)			
190									0.1 TO 0.5 Po	199	100				
200									1 TO 0.1 Po	209	100				
210									0.1 TO 0.5 Po	219	100				
220							**220.5'-230.8' BRECCIATED GABBRO** AS IN 124.0'-140.3' BUT IS HIGHLY ALTERED AND BRECCIATED FROM 224.0'-227.0' WITH MINOR ANH ALSO CONTAINS TRACE TO 1% Po, CPY.		1 TO 1% Po CPY	229	100		220.5'		
													224.50'	3.5'	18186
													227.50'	3.0'	18187
230							**230.8'-257.0' GABBRO** AS IN 0.5'-124.0'		—	239	100		230.8'	3.0'	18188

HOLE NO. ML-93-96 | PROJECT: 1446 | PAGE NO: 5 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 17, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 8+57 N. 21+97 W E | DATE FINISHED: OCT 18, 1993 | SCALE: 1"=10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 349' | LOGGED BY: CJW

COMMENTS:

AVE CORE REC'Y / HOLE

ALTERATION | FRACTURING | MINERAL | GEOLOGY

SECTION | ALTERATION: AGM, SERICITE, CARBONATE | % SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP. INT. | ESTIMATED

DESCRIPTIVE GEOLOGY

230.0' - 257.0' GABBRO

CONT...

257.0' - 266.5' SHEARED - BRECCIATED GABBRO

AS IN 124.0' - 148.3' BUT MORE SHEARING AND ALTERATION WITH MODERATE TO STRONG AGM FROM 260.0' - 262.0'. MODERATE CARBONATE INFILLING THROUGHOUT. SHEARING @ 20°-30° TCA. MINOR SMOKY QUARTZ VEINING ASSOCIATED WITH AGM. NO SULPHIDES NOTED, POSSIBLE TRACE PYRITE.

266.5 - 273.8' GABBRO

AS IN 0.5' - 124.0' BUT FINER GRAINED.

273.8' - 279.4' ANORTHOSITE

MEDIUM GREEN GREY AND GREY WHITE, COARSE GRAINED, MASSIVE, NO SULPHIDES NOTED.

279.4' - 289.0' GABBRO

AS IN 0.5' - 124.0'

289.0' - 290.7' ANORTHOSITE

AS IN 273.8' - 279.4'

290.7' - 349.0' GABBRO

AS IN 0.5' - 124.0'

SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
237.0'		
260.0'	3.0'	18789
263.5'	3.5'	18790
266.5'	3.0'	18791

HOLE NO. ML-93-96 | PROJECT: 1446 | PAGE NO: 6 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: OCT 17, 1993 | REF. TO CLAIM CORNER:

COORDINATES: B+57 N. 21+47 | DATE FINISHED: OCT 18, 1993 | SCALE: 1"=10'

INCLINATION: -52° | BEARING: 40° | TOTAL DEPTH: 349' | LOGGED BY: CJW

SECTION	ALTERATION: Ab	ALTERATION: Ser	ALTERATION: Carb	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300							290.7'- 349.0' GABBRO cont...		1 to 2% Po		100				
310									1 to 2% Po	309	100				
320									—	319	100				
330									—	329	100				
340									—	339	100				
							END OF HOLE @ 349'			349					

HOLE NO. ML-93-97 | PROJECT: 1446 | PAGE NO: 1 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 19, OCT, 1993 | REP. TO CLAIM CORNER:

COORDINATES: 3+185 N 44+50 W E | DATE FINISHED: 20, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -47° | BEARING: 180° | TOTAL DEPTH: 299' | LOGGED BY: SJT

SECTION	ALTERATION: EPIDOTE	ALTERATION: CALCITE	FRACTURING	MINERAL %	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES BY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0											PQ			
10									9					
20									19	100				
30								TRACE 0.5%	29	100				
40									39	97				
50									49	91				
								TRACE - 0.5%	59					

DESCRIPTIVE GEOLOGY

0.00' - 10.0' OVERBURDEN

CASING ADVANCED

10.0' - 24.0' GABBRO

DARK BLACK-GREEN, MEDIUM GRAINED, 60% MAFIC, 40% FELDSPAR, MASSIVE, MINOR CARBONATE VEIN - VEINLETS (< 1mm - 1cm), HAIRLINE 1-2 mm, MINOR EPIDOTE ALTERATION ASSOCIATED WITH CARBONATE, TRACE - 0.5% PY ASSOCIATED WITH [illegible] CARBONATE ALTERATION VEINS, OVERALL UNIT IS VERY RESISTIVE

HOLE NO. ML-93-97 | PROJECT: 1446 | PAGE NO: 2 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 19, OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+18S N. 44+50 W E. | DATE FINISHED: 20, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -(1)7° | BEARING: 180° | TOTAL DEPTH: 299' | LOGGED BY: SM

SECTION	ALTERATION: CHLORITE	ALTERATION: EPIDOTE	ALTERATION: CARBONATE	FRACTURING	MINERAL %	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
60							10.0' - 74.0' GNEISS CONT		-		100				
70									-	69			71.0'		
							74.0' - 77.0' QUARTZ VEIN MILKY WHITE [illegible]		-		100		74.0'	3.0	18792
							SHARP CONT @ 80°		-				77.0'	3.0'	18793
							SHARP CONT @ 10°		-				80.0'	3.0'	18794
80							77.0' - 181.0' GNEISS AS (1) 10.0' - 74.0'		-	71					
									Trace		100				
90										89					
									-		100				
100										99					
									-		100				
110										109					
									-		100				
										111					

HOLE NO. ML-93-97 | PROJECT: 1477 | PAGE NO: 3 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 19, [illegible], 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+18S N 44+50W E | DATE FINISHED: 20, [illegible], 1993 | SCALE: 1" TO 10'

INCLINATION: -/17° | BEARING: 180° | TOTAL DEPTH: [illegible]' | LOGGED BY: [illegible]

SECTION	ALTERATION: CHLORITE	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
120							77.0' - 181.0' GABBRO								
							CONT		-		100				
130										129					
									-		100				
140										139					
									-		100				
							312 CHKS								
150										149					
									-		100				
160										159					
									-		100				
170										169					
									-		100				
										179					

HOLE NO. ML-93-97 | PROJECT: 1466 | PAGE NO: 4 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 19, OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+185 N. 44150W E. | DATE FINISHED: 20, OCT, 1993 | SCALE: 1" TO 10'

INCLINATION: -47° | BEARING: 180° | TOTAL DEPTH: 299' | LOGGED BY: SM

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

77.0' - 181.0' GRANITIC

181.0 - 191.5 SHEARED ARGILLITE

DARK BLACK-GREEN, FINE-MEDIUM ARGILLITE, SPHEROIDAL FRACTURED @ 65-75°, MODERATE-INTENSE CARBONATE ALONG SHEAR PLANES, MINOR CALCITE, ASSOCIATED WITH CARBONATE. TRACE - 0.5% PY ASSOCIATED WITH CARBONATE

191.5' - 194.5' QUARTZ VEIN

MILKY WHITE - SMOKY GREY, BRECCIATED, ARGILLITE HOST ROCK INCLUSIONS 0.5 - 1.0% FINE-MED GRAINED PY

194.5 - 245.0' ARGILLITE

DARK BLACK-GREY, FINE GRAINED, LAMINATED - FINELY BEDDED (<1mm) @ 32-35° TCA, OCCASIONAL QTZ VEINS CONFORMABLE WITH BEDDING (0.5 - 15.0 cm), 215.5' - 218.7' AND 224.7 - 225.5' SILICIFIED ALTERATION ZONES OF QUARTZ - SERICITE - EPIDOTE ? - PY - CARB, 231.0' - 245.0' UNIT IS HIGHLY SILICIFIED ALMOST CHERTY, 5-7% PY ALONG BEDDING, TRACE CPY.

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180				77.0 GRANITIC				BQ/BTW			
				181.0 SHEARED ARGILLITE	- 0.5%		100				
190				191.5 QUARTZ VEIN	- 0.5-1.0%	189			191.5		
			MASSIVE				100		194.5	3.0'	18795
				194.5 ARGILLITE	5-7%				198.5	4.0'	18796
200			QTZ 5-8% PY			199			202.5	4.0'	18797
					5%		100		206.5	4.0	18798
						209			210.5	4.0'	18799
210			QTZ 1-2% PY		1-2%		100		214.5	4.0	18800
				ALTERED ZONE 2-3% PY					218.5	4.0	18801
220						219			222.5	4.0	18802
				ALTERED ZONE 5-8% PY	3-4%		100		226.5	4.0	18803
						229			230.5	4.0	18804
230					-		100				
						299					

HOLE NO. ML-93-97 | PROJECT: 1446 | PAGE NO: 5 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: 19, OCT, 1993 | REF. TO CLAIM CORNER:

COORDINATES: 3+185 N 44+50 W | DATE FINISHED: 20, OCT, 1993 | SCALE: 1" = 10'

INCLINATION: -47° | BEARING: 180° | TOTAL DEPTH: 299' | LOGGED BY: CM

SECTION	ALTERATION: EPIDOTE	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240						194.5 - 245.0' ARGILLITE CONT . . . . . 245.0' - 299.0' GABBRO AS IN 10.0' - 74.0'		-						
250								-	249	100				
260								-	259	100				
270								-	269	100				
280								-	279	100				
290								-	289	100				
						DR TEST 47° . . . . . 299.0' E.O.H.		-	299					

APPENDIX II

REPORT OF ANALYSIS (DRILL CORE) - MCVICAR LAKE 1993

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

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Project : McVICAR - 1446
Comments: ATTN: CRAIG WALDIE

Page Number :1
Total Pages :1
Certificate Date: 06-OCT-93
Invoice No. :I9322228
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9322228

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
18501	205	274	< 5	-----
18502	205	274	< 5	-----
18503	205	274	< 5	-----
18504	205	274	< 5	-----
18505	205	274	< 5	-----
18506	205	274	< 5	-----
18507	205	274	< 5	-----
18508	205	274	< 5	-----
18509	205	274	< 5	-----
18510	205	274	20	-----
18511	205	274	165	-----
18512	205	274	5	-----
18513	205	274	< 5	-----
18514	205	274	< 5	-----
18515	205	274	40	-----
18516	205	274	15	-----
18517	205	274	5	-----
18518	205	274	< 5	-----
18519	205	274	< 5	-----
18520	205	274	< 5	-----
18521	205	274	< 5	-----
18522	205	274	< 5	-----
18523	205	274	< 5	-----
18524	205	274	< 5	-----
18525	205	274	< 5	-----
18526	205	274	< 5	-----
18527	205	274	60	-----
18528	205	274	5	-----
18529	205	274	10	-----
18530	205	274	< 5	-----
18531	205	274	< 5	-----
18532	205	274	< 5	-----
18533	205	274	< 5	-----
18534	205	274	< 5	-----

CERTIFIED

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

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Project : McVICAR - 1446
Comments: ATTN: CRAIG WALDIE

Page Number :1
Total Pages :2
Certificate Date: 12-OCT-93
Invoice No. :19322387
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9322387

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
18535	205	274	30	-----
18536	205	274	10	-----
18537	205	274	275	-----
18538	205	274	20	-----
18539	205	274	< 5	-----
18540	205	274	5	-----
18541	205	274	70	-----
18542	205	274	20	-----
18543	205	274	90	-----
18544	205	274	10	-----
18545	205	274	15	-----
18546	205	274	15	-----
18547	205	274	30	-----
18548	205	274	5	-----
18549	205	274	30	-----
18550	205	274	20	-----
18551	205	274	10	-----
18552	205	274	< 5	-----
18553	205	274	< 5	-----
18554	205	274	30	-----
18555	205	274	< 5	-----
18556	205	274	40	-----
18557	205	274	5	-----
18558	205	274	160	-----
18559	205	274	15	-----
18560	205	274	5	-----
18561	205	274	20	-----
18562	205	274	< 5	-----
18563	205	274	< 5	-----
18564	205	274	< 5	-----
18565	205	274	< 5	-----
18566	205	274	5	-----
18567	205	274	25	-----
18568	205	274	10	-----
18569	205	274	300	-----
18570	205	274	25	-----
18571	205	274	15	-----
18572	205	274	< 5	-----
18573	205	274	< 5	-----
18574	205	274	20	-----

CERTIFICATION: Adriana Alexandre

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR - 1446
Comments: ATTN: CRAIG WALDIE

Page Number :2
Total Pages :2
Certificate Date: 12-OCT-93
Invoice No. :19322387
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9322387

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t								
18575	205	274	15	-----								

CERTIFICATION: Adriana Alexandru

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR - 1446
Comments: ATTN: CRAIG WALDIE

Page Number :1
Total Pages :1
Certificate Date: 18-OCT-93
Invoice No. :I9322785
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9322785

SAMPLE	PREP CODE		Au ppb FA+AA
18576	205	226	< 5
18577	205	226	< 5
18578	205	226	10
18579	205	226	15
18580	205	226	70
18581	205	226	< 5
18582	205	226	< 5
18583	205	226	< 5
18584	205	226	< 5
18585	205	226	10
18586	205	226	< 5
18587	205	226	1160
18588	205	226	110
18589	205	226	920
18590	205	226	< 5
18591	205	226	< 5
18592	205	226	< 5
18593	205	226	< 5
18594	205	226	< 5
18595	205	226	145
18596	205	226	< 5
18597	205	226	< 5
18598	205	226	10
18599	205	226	25
18600	205	226	< 5
18601	205	226	15
18602	205	226	< 5
18603	205	226	15
18604	205	226	< 5

CERTIFICATION: Adriana Alexandru

Chemex Labs Ltd.

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5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR - 1446
Comments: ATTN: CRAIG WALDIE

Page Number :1
Total Pages :1
Certificate Date: 18-OCT-93
Invoice No. :I9322940
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9322940

SAMPLE	PREP CODE		Au ppb FA+AA
18605	205	226	< 5
18606	205	226	< 5
18607	205	226	< 5
18608	205	226	< 5
18609	205	226	< 5
18610	205	226	< 5
18611	205	226	< 5
18612	205	226	< 5
18613	205	226	< 5
18614	205	226	< 5
18615	205	226	< 5
18616	205	226	< 5
18617	205	226	< 5
18618	205	226	< 5
18619	205	226	125
18620	205	226	10
18621	205	226	5
18622	205	226	260
18623	205	226	15
18624	205	226	10
18625	205	226	< 5
18626	205	226	< 5
18627	205	226	< 5
18628	205	226	< 5
18629	205	226	< 5
18630	205	226	< 5
18631	205	226	< 5
18632	205	226	< 5
18633	205	226	< 5
18634	205	226	< 5
18635	205	226	< 5
18636	205	226	< 5
18637	205	226	< 5
18638	205	226	< 5
18639	205	226	< 5
18640	205	226	< 5

CERTIFICATION: Adriana Alexander

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR-1446
Comments: ATTN: CRAIG WALDIE

Page Number :1
Total Pages :2
Certificate Date: 25-OCT-93
Invoice No. :I9323257
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9323257

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t								
18641	205	274	< 5	-----								
18642	205	274	< 5	-----								
18643	205	274	< 5	-----								
18644	205	274	< 5	-----								
18645	205	274	< 5	-----								
18646	205	274	< 5	-----								
18647	205	274	< 5	-----								
18648	205	274	< 5	-----								
18649	205	274	25	-----								
18650	205	274	< 5	-----								
18651	205	274	< 5	-----								
18652	205	274	5	-----								
18653	205	274	5	-----								
18654	205	274	< 5	-----								
18655	205	274	< 5	-----								
18656	205	274	< 5	-----								
18657	205	274	< 5	-----								
18658	205	274	< 5	-----								
18659	205	274	10	-----								
18660	205	274	< 5	-----								
18661	205	274	< 5	-----								
18662	205	274	< 5	-----								
18663	205	274	< 5	-----								
18664	205	274	< 5	-----								
18665	205	274	< 5	-----								
18666	205	274	< 5	-----								
18667	205	274	< 5	-----								
18668	205	274	< 5	-----								
18669	205	274	< 5	-----								
18670	205	274	< 5	-----								
18671	205	274	< 5	-----								
18672	205	274	45	-----								
18673	205	274	< 5	-----								
18674	205	274	< 5	-----								
18675	205	274	< 5	-----								
18676	205	274	< 5	-----								
18677	205	274	< 5	-----								
18678	205	274	< 5	-----								
18679	205	274	< 5	-----								
18680	205	274	150	-----								

CERTIFICATE: Adriana Alexandru

Chemex Labs Ltd.

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PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR-1446
Comments: ATTN: CRAIG WALDIE

Page Number :2
Total Pages :2
Certificate Date: 25-OCT-93
Invoice No. : I9323257
P.O. Number :
Account : EEF

CERTIFICATE OF ANALYSIS A9323257

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t								
18681	205	274	< 5	-----								
18682	205	274	< 5	-----								
18683	205	274	< 5	-----								
18684	205	274	10	-----								
18685	205	274	< 5	-----								
18686	205	274	< 5	-----								
18687	205	274	< 5	-----								
18688	205	274	< 5	-----								
18689	205	274	< 5	-----								
18690	205	274	< 5	-----								
18691	205	274	< 5	-----								
18692	205	274	< 5	-----								
18693	205	274	< 5	-----								
18694	205	274	< 5	-----								
18695	205	274	45	-----								
18696	205	274	< 5	-----								

CERTIFICATION: Adriana Alexandru

Chemex Labs Ltd.

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5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR-1446
Comments: ATTN: CRAIG WALDIE

Page Number :1
Total Pages :3
Certificate Date: 01-NOV-93
Invoice No. : I9323529
P.O. Number :
Account : EEF

CERTIFICATE OF ANALYSIS A9323529

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
18697	205 274	< 5	-----
18698	205 274	< 5	-----
18699	205 274	< 5	-----
18700	205 274	< 5	-----
18701	205 274	< 5	-----
18702	205 274	< 5	-----
18703	205 274	< 5	-----
18704	205 274	< 5	-----
18705	205 274	< 5	-----
18706	205 274	< 5	-----
18707	205 274	< 5	-----
18708	205 274	< 5	-----
18709	205 274	< 5	-----
18710	205 274	< 5	-----
18711	205 274	200	-----
18712	205 274	20	-----
18713	205 274	< 5	-----
18714	205 274	< 5	-----
18715	205 274	< 5	-----
18716	205 274	< 5	-----
18717	205 274	< 5	-----
18718	205 274	20	-----
18719	205 274	420	-----
18720	205 274	< 5	-----
18721	205 274	< 5	-----
18722	205 274	< 5	-----
18723	205 274	< 5	-----
18724	205 274	< 5	-----
18725	205 274	< 5	-----
18726	205 274	< 5	-----
18727	205 274	< 5	-----
18728	205 274	< 5	-----
18729	205 274	< 5	-----
18730	205 274	15	-----
18731	205 274	70	-----
18732	205 274	40	-----
18733	205 274	15	-----
18734	205 274	< 5	-----
18735	205 274	< 5	-----
18736	205 274	< 5	-----

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
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PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1Q4

Project : McVICAR-1446
Comments: ATTN: CRAIG WALDIE

Page Number :2
Total Pages :3
Certificate Date: 01-NOV-93
Invoice No. :19323529
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9323529

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
18737	205 274	< 5	-----
18738	205 274	< 5	-----
18739	205 274	< 5	-----
18740	205 274	< 5	-----
18741	205 274	< 5	-----
18742	205 274	< 5	-----
18743	205 274	< 5	-----
18744	205 274	< 5	-----
18745	205 274	< 5	-----
18746	205 274	< 5	-----
18747	205 274	< 5	-----
18748	205 274	< 5	-----
18749	205 274	< 5	-----
18750	205 274	< 5	-----
18751	205 274	< 5	-----
18752	205 274	< 5	-----
18753	205 274	< 5	-----
18754	205 274	< 5	-----
18755	205 274	< 5	-----
18756	205 274	< 5	-----
18757	205 274	< 5	-----
18758	205 274	< 5	-----
18759	205 274	< 5	-----
18760	205 274	< 5	-----
18761	205 274	< 5	-----
18762	205 274	< 5	-----
18763	205 274	< 5	-----
18764	205 274	< 5	-----
18765	205 274	< 5	-----
18766	205 274	25	-----
18767	205 274	< 5	-----
18768	205 274	< 5	-----
18769	205 274	< 5	-----
18770	205 274	< 5	-----
18771	205 274	< 5	-----
18772	205 274	< 5	-----
18773	205 274	10	-----
18774	205 274	< 5	-----
18775	205 274	< 5	-----
18776	205 274	< 5	-----

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR-1446
Comments: ATTN: CRAIG WALDIE

Page Number :3
Total Pages :3
Certificate Date: 01-NOV-93
Invoice No. : I9323529
P.O. Number :
Account : EEF

CERTIFICATE OF ANALYSIS A9323529

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
18777	205 274	< 5	-----
18778	205 274	< 5	-----
18779	205 274	< 5	-----
18780	205 274	30	-----
18781	205 274	< 5	-----
18782	205 274	< 5	-----
18783	205 274	< 5	-----
18784	205 274	< 5	-----
18785	205 274	< 5	-----
18786	205 274	< 5	-----
18787	205 274	< 5	-----
18788	205 274	< 5	-----
18789	205 274	< 5	-----
18790	205 274	120	-----
18791	205 274	< 5	-----
18792	205 274	< 5	-----
18793	205 274	< 5	-----
18794	205 274	< 5	-----
18795	205 274	< 5	-----
18796	205 274	< 5	-----
18797	205 274	< 5	-----
18798	205 274	< 5	-----
18799	205 274	< 5	-----
18800	205 274	< 5	-----
18801	205 274	< 5	-----
18802	205 274	< 5	-----
18803	205 274	< 5	-----
18804	205 274	< 5	-----

CERTIFICATION: Jack Vonk

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR - 1446 F.P.
Comments: ATTN: CRAIG WALDIE

Page Number :1
Total Pages :1
Certificate Date: 08-NOV-93
Invoice No. : I9323768
P.O. Number :
Account :EEF

CERTIFICATE OF ANALYSIS A9323768

SAMPLE	PREP CODE		Au tot g/t	Au - g/t	Au + mg	Wt. - grams	Wt. + grams					
18511	214	--	0.18	0.20	< 0.002	210	17.67					
18537	214	--	< 0.07	< 0.07	< 0.002	372	13.81					
18569	214	--	0.79	0.78	0.024	550	24.81					
18587	214	--	1.10	1.10	0.022	285	20.68					
18588	214	--	0.08	0.08	0.005	691	23.19					
18589	214	--	0.84	0.83	0.017	354	15.68					

CERTIFIC Adriana Alexandru

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BHP MINERALS CANADA LTD.

33 YONGE STREET, SUITE 610
TORONTO, ON
M5E 1G4

Project : McVICAR - 1446 F.P.
Comments: ATTN: CRAIG WALDIE

Page Number : 1
Total Pages : 1
Certificate Date: 08-NOV-93
Invoice No. : 19323768
P.O. Number :
Account : EEF

CERTIFICATE OF ANALYSIS A9323768

SAMPLE	PREP CODE	Au tot g/t	Au - g/t	Au + mg	Wt. - grams	Wt. + grams
18511	214 --	0.18	0.20	< 0.002	210	17.67
18537	214 --	< 0.07	< 0.07	< 0.002	372	13.81
18569	214 --	0.79	0.78	0.024	550	24.81
18587	214 --	1.10	1.10	0.022	285	20.68
18588	214 --	0.08	0.08	0.005	691	23.19
18589	214 --	0.84	0.83	0.017	354	15.68

CERTIFIC Adriana Alexandru

APPENDIX III

LITHOLOGICAL DESCRIPTIONS

Mafic Metavolcanic: Dark green weathers to light grey-green. Fine grained, occasionally medium grained, massive. Moderately to intensely sheared and brecciated in the Bear Head Fault Zone; elsewhere massive and undeformed. Rarely with minor disseminated pyrite.

Gabbro: Mottled dark green and milky white weathers to medium grey. Medium to coarse grained, interlocking igneous texture of amphibole other mafics and feldspars. Massive, rarely weakly sheared. Moderately brecciated in close proximity to Bear Head Fault Zone. Rare minor disseminated pyrite and pyrrhotite.

Tonalite: Light grey-green to pale pink. Massive, medium grained. Composition is quartz and plagioclase with 20% subidiomorphic glassy grey quartz crystals. Rare minor disseminated pyrite.

Granite: Medium pink to light pink, weathers to light grey and pink. Massive. Medium grained potassic feldspar (40%), quartz (50%) and mafics (10%).

Quartz Veins: Milky white to smoky grey quartz veins which vary in width (20 to 60cm) along their length. Contain up to 2% pyrite and minor chalcopyrite and graphite when hosted in iron formation; no visible sulphides when hosted in other lithologies.

Magnetite Iron Formation: Black and dark grey banded, weathers to dark grey. Very fine grained. Thinly bedded; beds are 3-5cm thick. Beds are folded and contorted; bedding planes are regular and continuous. Strongly magnetic.

Argillite: Black, fine grained, finely banded. Minor graphitic sections. Minor sulphides, generally fracture controlled.

Brecciated Gabbro: Patchy dark green, white and grey, weathers to dark to medium grey. Brecciated gabbroic (rarely basaltic) matrix hosts

subrounded to angular clasts of tonalite, gabbro and basalt. Clasts range in size from 5 to 10cm and comprise 30% of the unit. Unit is discontinuous and difficult to trace along its strike length.

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9430.00033

Personal information collected on this form is obtained under the authority of the Mi this collection should be directed to the Provincial Manager, Mining Lands, Mini Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

52O11SW0014 W9430-00033 STOUGHTON LAKE

900

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)		Client No.
BHP MINERALS CANADA LIMITED		
Address		Telephone No.
610 - 33 YONGE ST. TORONTO, ONT. M5E 1G4		416-368-3884
Mining Division	Township/Area	M or G Plan No.
PATRICIA	MCVICAR LAKE	G-2121
Dates Work Performed From: SEPT. 20, 1993	To: OCTOBER 10, 1993	

ONTARIO GEOSCIENCE SURVEY GIS ACCESS

RECEIVED

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
	Physical Work, Including Drilling	DIAMOND DRILLING (W20) (PDRILL)
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

94 APR 8 AM 8:3

RECORDER MINING DIVISION

Total Assessment Work Claimed on the Attached Statement of Costs $ 162,883.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
C.J. WALDIE (author)	610 - 33 YONGE ST. TORONTO, ONT. M5E 1G4
LANGLEY DRILLING	49 JAYFIELD RD. BRAMPTON, ONT. L6S 363

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	APRIL 6/94	Craig Waldie

Certification of Work Report

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

Name and Address of Person Certifying		
C.J. WALDIE 610 - 33 YONGE ST. TORONTO, ONT. M5E 1G4		
Telepone No.	Date	Certified By (Signature)
416-368-3884	APRIL 6/94	Craig Waldie

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
# 162,883	94APRIL08		RECORDED APR - 8 1994 Receipt JK
	Deemed Approval Date	Date Approved: 94APRIL08	
	Date Notice for Amendments Sent		

0241 (02/91)

W9430.00033

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	1144974	16	$37,789.00	$0.00	$0.00	$37,789.00
	1173155	1	$9,773.00	$0.00	$0.00	$9,773.00
	1179805	16	$115,321.00	$0.00	$0.00	$115,321.00
	Total Number of Claims: 3	33 units	Total Value Work Done: $162,883.00	Total Value Work Applied: $0.00	Total Assigned From: $0.00	Total Reserve: $162,883.00

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☑ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9430.00033

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	6060	
	Field Supervision Supervision sur le terrain		6,060
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type DRILLING	150,217	
	ANALYTICAL	4,132	
			154,349
Supplies Used Fournitures utilisées	Type FUEL	830	
	DRAFTING	224	
			1,054
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		161,463

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type AIR CHARTER	246	
	FREIGHT	611	
			857
Food and Lodging Nourriture et hébergement		563	563
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		1,420
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		1,420
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / **Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)**		162,883

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit		Total Assessment Claimed
NA	x 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation		Évaluation totale demandée
	x 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as PROJECT GEOLOGIST (Recorded Holder, Agent, Position in Company) I am authorized

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé

à faire cette attestation.

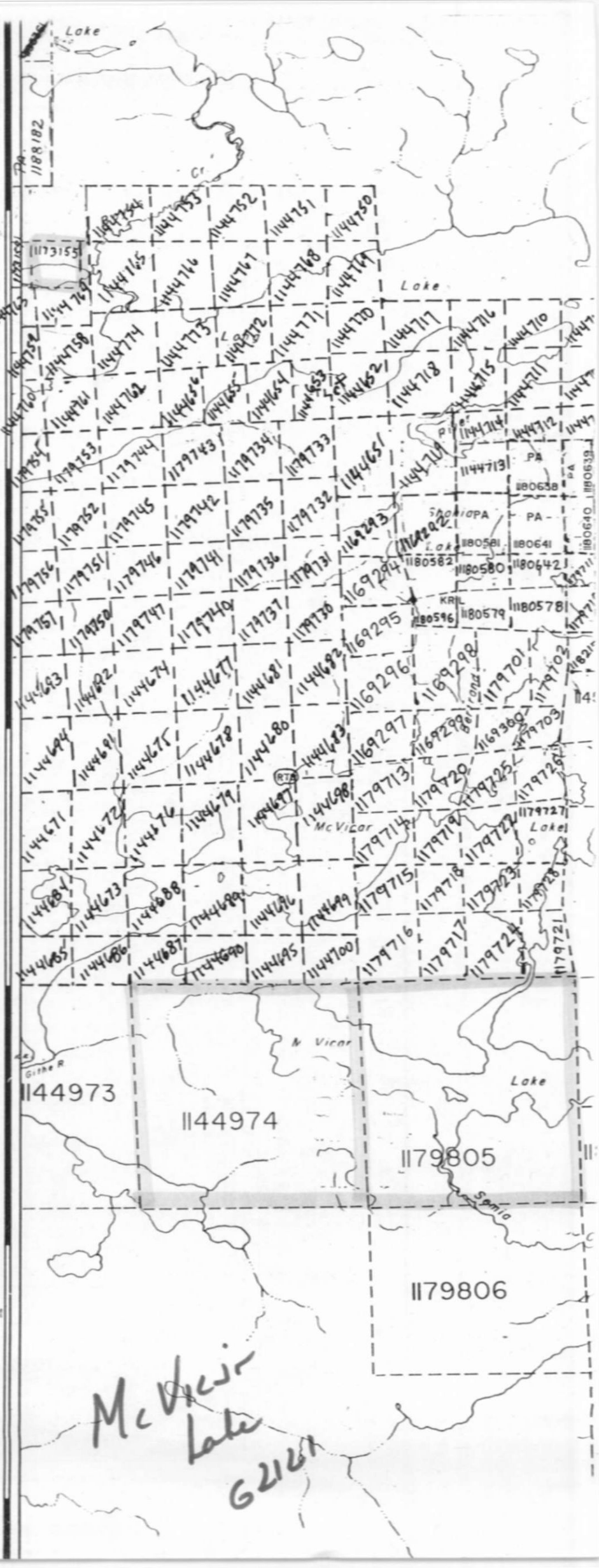
Signature	Date
	APRIL 6/94

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

May 15/90 C
July 4/90 C
July 31/90 C
Apr. 4/91 R
Apr. 5/91 R.
April 10/91 R
May 17/91 C+R
June 10/91 C
Aug 7/91 R
Oct 23 91 R
March 16/92 R
MARCH 17/92 R
April 27/92 R
May 1/92 R
JUNE 11/92 R
June 22C
OCT 5/92 R
94MAR04 REC

STOUGHTON LAKE G-2228



RED LAKE
RECEIVED
AUG - 2 1994
A.M. P.M.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6

McVicar Lake G2228

W9430.00033

SADDLE LAKE G-2197

91°30' 91°15' 51°37'30"

PA. 1194146 PA. 1194147 PA. 1194148 PA. 1194149

Boyes Lake Andy Lake Grohe Lake McVicar Lake Semio Lake

DRILL ASSAY

84MAR04 REC

145280 133787 133786 145282 179810 144973 144974 179805 180603 179807 179806 179808 133789 133783 133784 152007 152004 152005 152010 152008 152003 152002

STOUGHTON LAKE G-2228

CANNON LAKE G-1978

RECEIVED 1984 APR 26 AM 8:33 MINING LANDS SECTION

51°30' 91°30' 29' 28' 27' 26' 25' 24' 23' 22' 21' 20' 19' 18' 17' 16' 91°15'

MEEN LAKE G-2122

515912

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LEGEND

- 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
- REMOTE TOURIST SET-UP

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	OC
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 63 SUBSEC 1

REFERENCES

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

94 JUL 11 PM 3:50
MINING RECORDER
PATRICIA
MINING DIVISION

T.L.C. - TRAP LINE CABIN

SCALE 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 2000
1 KM 2 KM

AREA

McVICAR LAKE

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
KENORA (PATRICIA PORTION).

Ontario Ministry of Natural Resources — Land Management Branch

Date JANUARY, 1984

Number G-2121

McVICAR LAKE

1144688 1144689 1144696 1144699

1144685 1144686 1144687 1144690 1144695 1144700

1144973 1144974

1179714 1179719 1179722 1179727

1179715 1179718 1179723 1179728

1179716 1179717 1179724 1179721

1179805 1179806 1179807 1180603

LOWER McVICAR LAKE

CHIP LAKE

WOODSTOCK LAKE

POND

POND

AGM ZONE

CHELLOW TRENCHES

TL10N

BL0

TL10S

36W 34W 32W 30W 28W 26W 24W 22W 20W 18W 16W 14W 12W 10W 8W 6W 4W 2W 0 2E 4E 6E 8E

LEGEND

LATE INTRUSIVES
- 14 GRANITE
- 13 MAFIC DYKE
- 12 TONALITE

McVICAR TECTONITES
- 10 ALTERED ZONE STRUCTURE
- 10a QUARTZ VEIN
- 8 BRECCIATED/SHEARED GABBRO
- 7 BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 BRECCIATED/SHEARED BASALT

EARLY INTRUSIVES
- 4 GABBRO
- 4a ANORTHOSITE

INTERMEDIATE INTRUSIVE
- 11 MASSIVE
- 11a PORPHYRITIC

FELSIC VOLCANICS
- 2 MASSIVE
- 2a PORPHYRITIC
- 2b TUFF
- 2c BRECCIA

MAFIC VOLCANICS
- 1 BASALT
- 1a PORPHYRITIC
- 1b PILLOWED
- 1c TUFF

- SHEARING
- FOLIATION
- VEIN ORIENTATION
- FAULT (SHEAR BOUNDARY)
- CONTACT
- OUTCROP
- SMALL OUTCROP

- BHP CLAIM POST
- TRENCH
- 3005 SAMPLE #
- (2350) ASSAY (>500 PPB AU)
- DRILL HOLE

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO ONTARIO CANADA

McVICAR LAKE PROPERTY

GEOLOGY & DDH LOCATIONS LOWER McVICAR LAKE AREA

DATE	DRAWN	CHECKED	REVISED	N.T.S.	FILE	MAP
NOV 1993	CJW			52 O/11		1 OF 2

SCALE 0 100 200 300 METRES

PLAN MAP 1A

1144757

1144754

BOYES CREEK

1144753

ML 93-97

TRENCH

1144829

1173154

1173155

1144765

1144766

1144832

1144763

1144764

LANG LAKE

LEGEND

BHP CLAIM POST

TRENCH

DRILL HOLE

PLAN MAP 18

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT

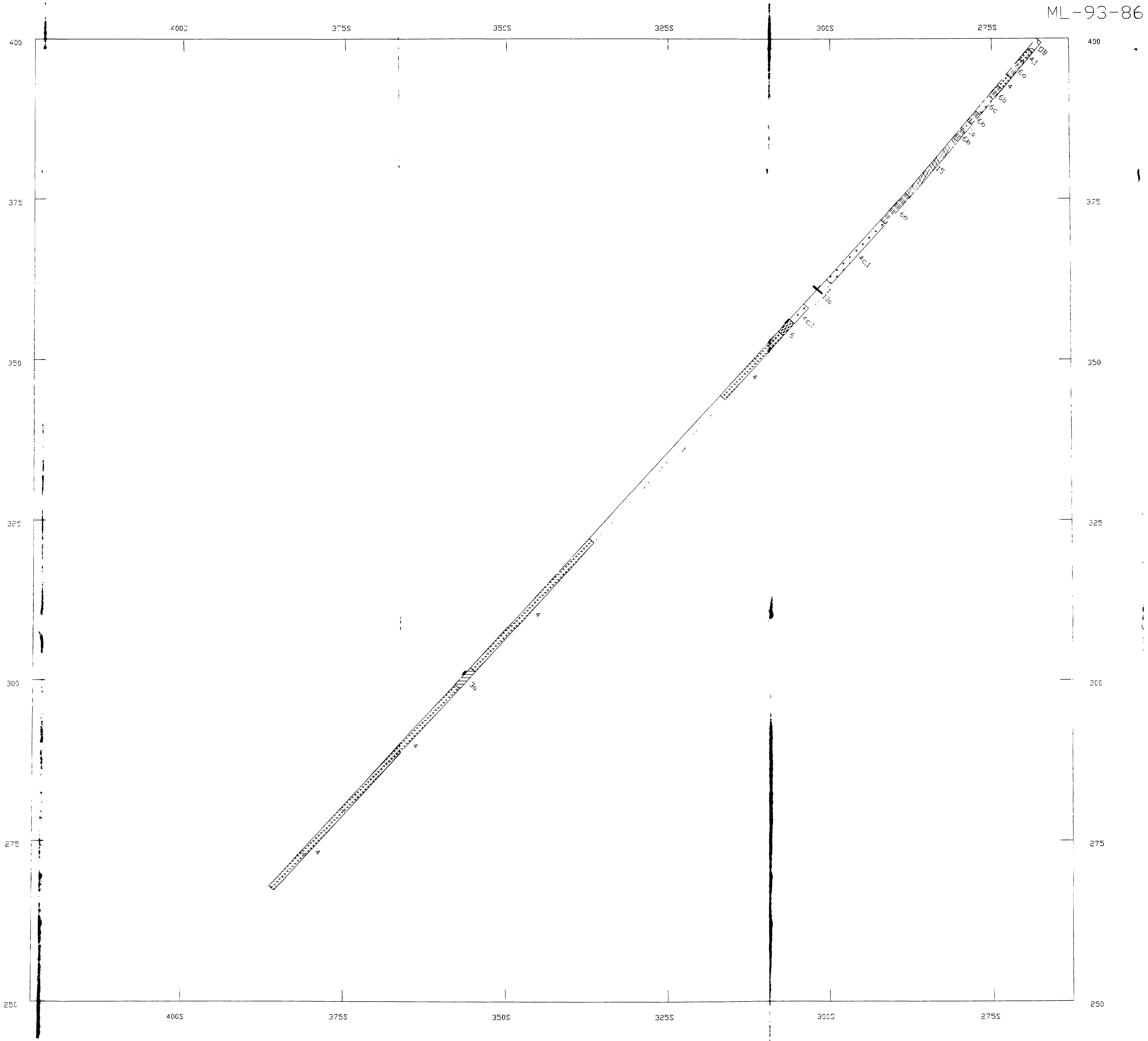
McVICAR LAKE PROPERTY

DDH LOCATION

BELORE/FAIRSERVICE AREA

DATE	DRAWN	CHECKED	REVISED	N.T.S.	FILE	MAP
NOV 93	LJW			52 G/11		2 OF 2

0 100 200 300 M



LEGEND

LATE INTRUSIVES

15 - MIXED UNITS
14 - FELDSPAR PORPHYRY
12 - TONALITE

McVICAR TECTONITES

10a - QUARTZ VEIN
9 - FAULT GOUGE
8 - BRECCIATED/SHEARED GABBRO
8a - SHEARED GABBRO
8b - BRECCIATED GABBRO
7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
6 - BRECCIATED/SHEARED BASALT
6a - SHEARED BASALT
6b - BRECCIATED BASALT
6c - SERICITIC SCHIST
6d - SILICIFIED BASALT

EARLY INTRUSIVE

4 - GABBRO
4b - ANORTHOSITE
4c - QUARTZ GABBRO

SEDIMENTS

3a - IRONSTONE (OXIDE)
3b - MUDSTONE

MAFIC VOLCANICS

1 - BASALT
1a - PORPHYRITIC
1e - TUFF
1f - TUFF (Silicified)
1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

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TORONTO , ONTARIO , CANADA

McVICAR LAKE PROPERTY
SECTION 4+22 W
GEOLOGY, AU
ML-93-86

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
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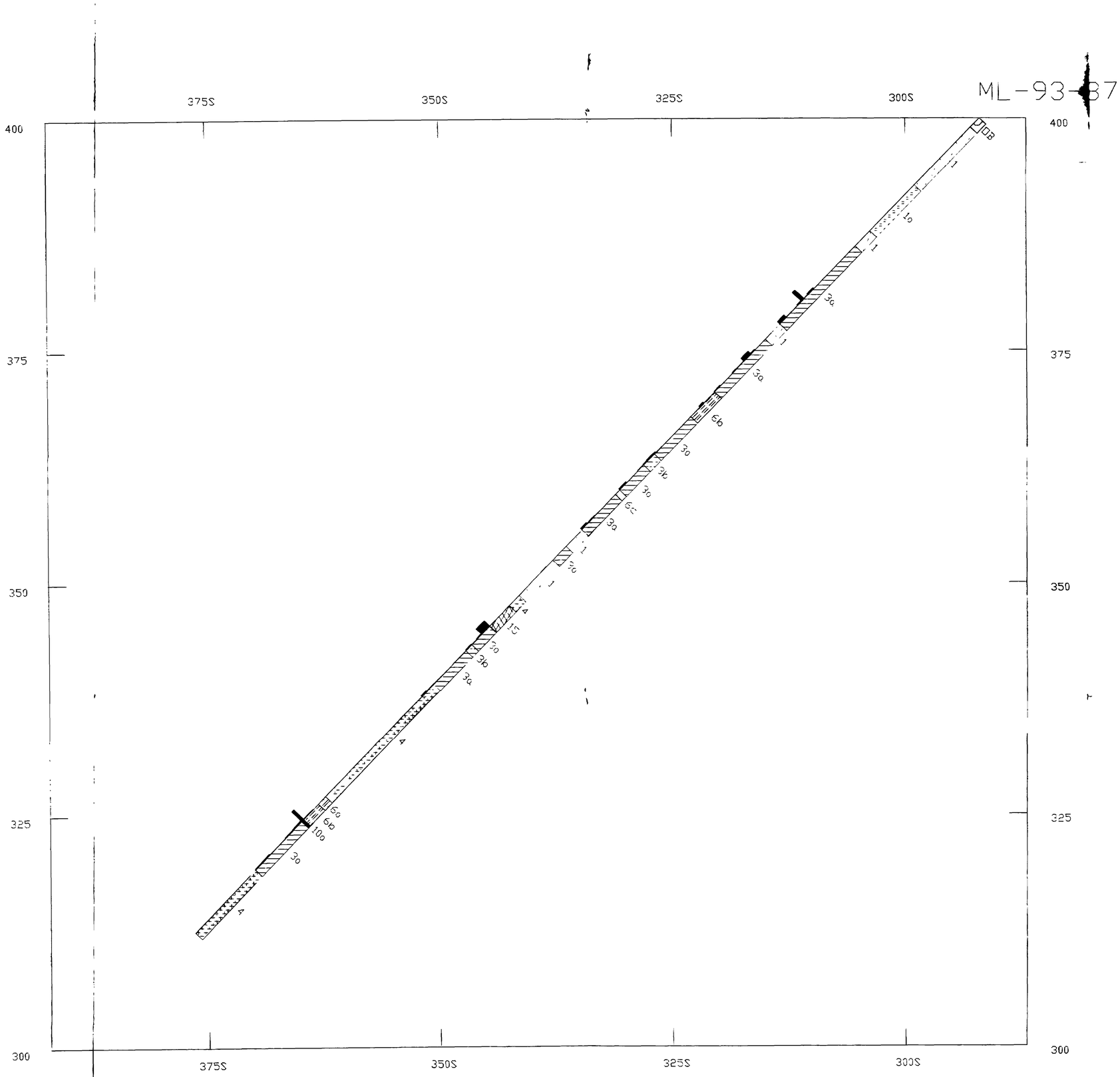

LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
- 9 - FAULT GOUGE
- 8 - BRECCIATED/SHEARED GABBRO
  - 8a - SHEARED GABBRO
  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4a - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1e - TUFF
  - 1f - TUFF (Sheared)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

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TORONTO , ONTARIO , CANADA

McVICAR LAKE PROPERTY
SECTION 4+00 W
GEOLOGY, AU
ML-93-87

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
NOV 93	C.J.W.			52 O/11	1446	2 of 12

1 250 — METRES

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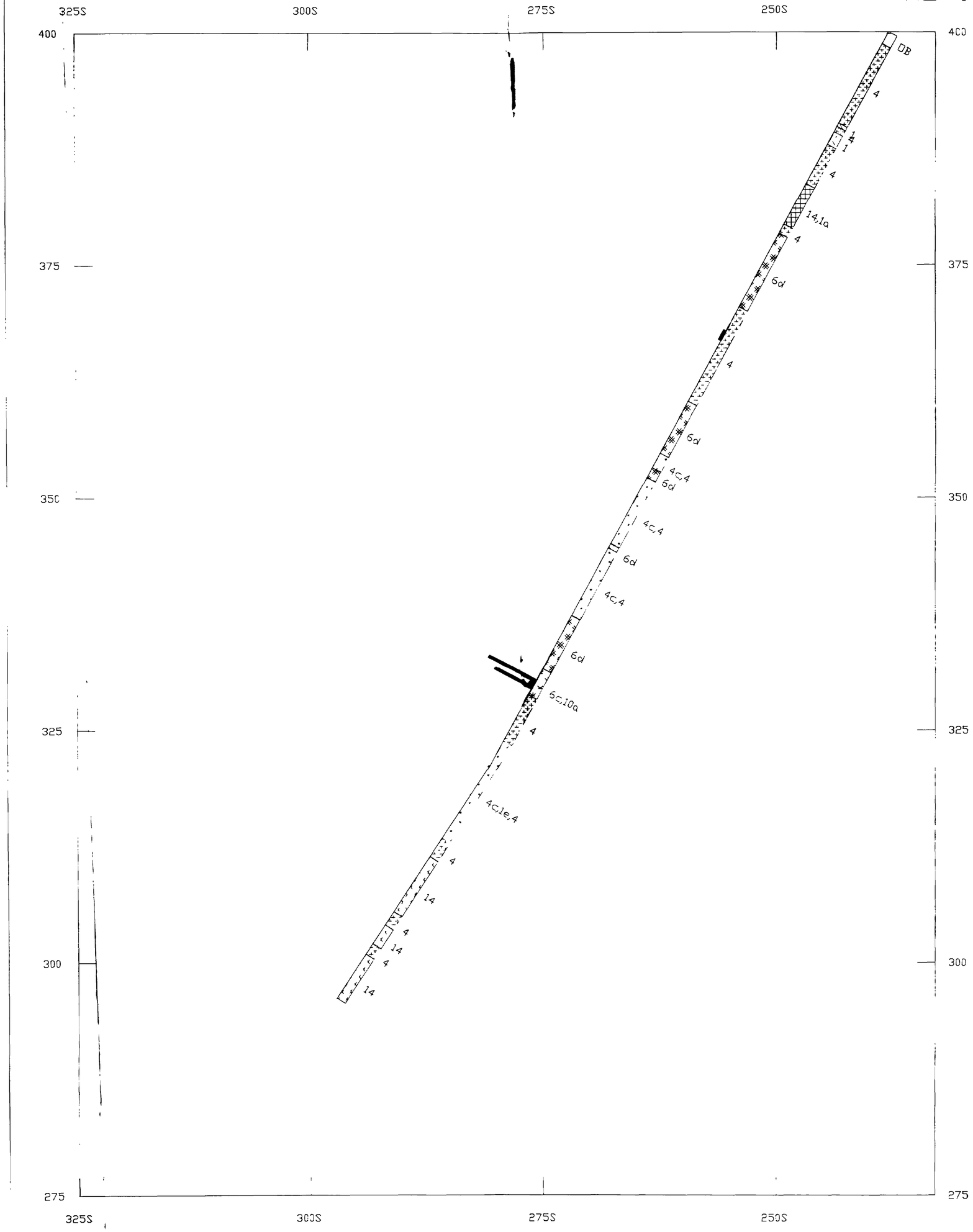
[redacted]
52O11SW0014 W9438-80033 STOUGHTON LAKE

ML-93-88



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
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  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4c - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1e - TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

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McVICAR LAKE PROPERTY
SECTION 4+47 W
GEOLOGY, AU
ML-93-88

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
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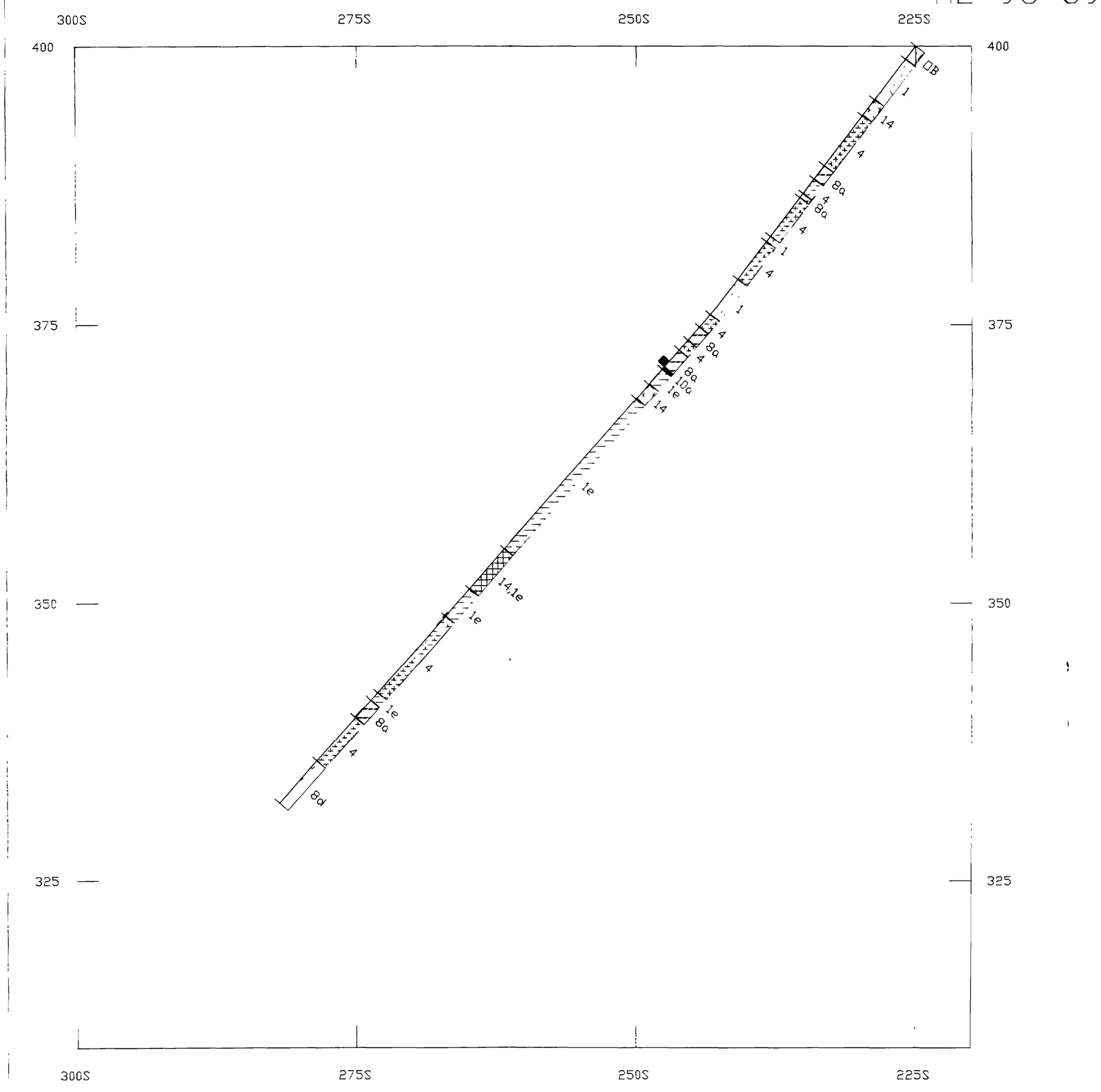
0 7.5 15 22.5 30

ML-93-89



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
- 9 - FAULT GOUGE
- 8 - BRECCIATED/SHEARED GABBRO
  - 8a - SHEARED GABBRO
  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1e - TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

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TORONTO , ONTARIO , CANADA

McVICAR LAKE PROPERTY
SECTION 5+28 W
GEOLOGY, AU
ML-93-89

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
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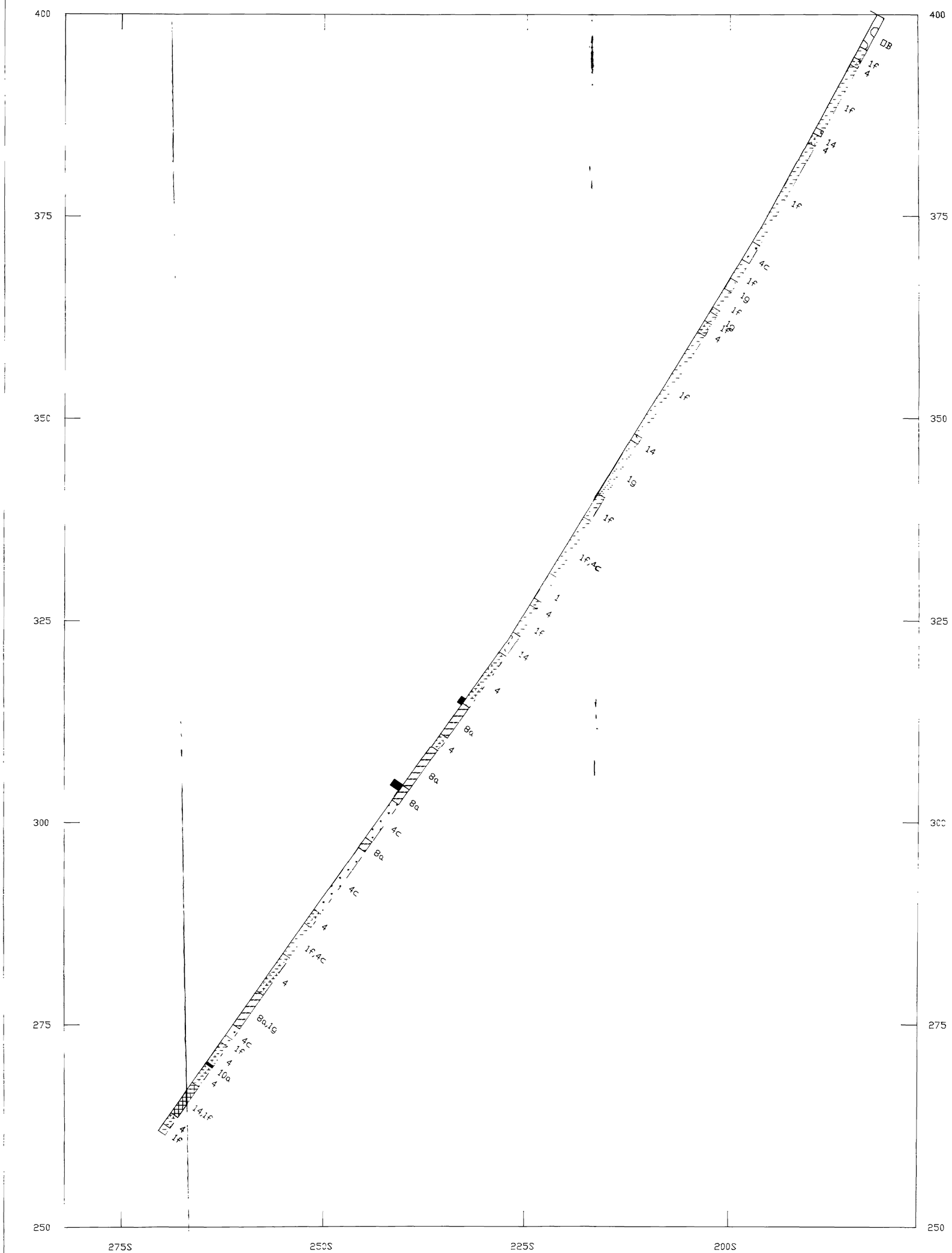
ML-93-90



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
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- 8 - BRECCIATED/SHEARED GABBRO
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  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6c - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
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  - 1e - TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

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EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

McVICAR LAKE PROPERTY
SECTION 4+26 W
GEOLOGY, AU
ML-93-90

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
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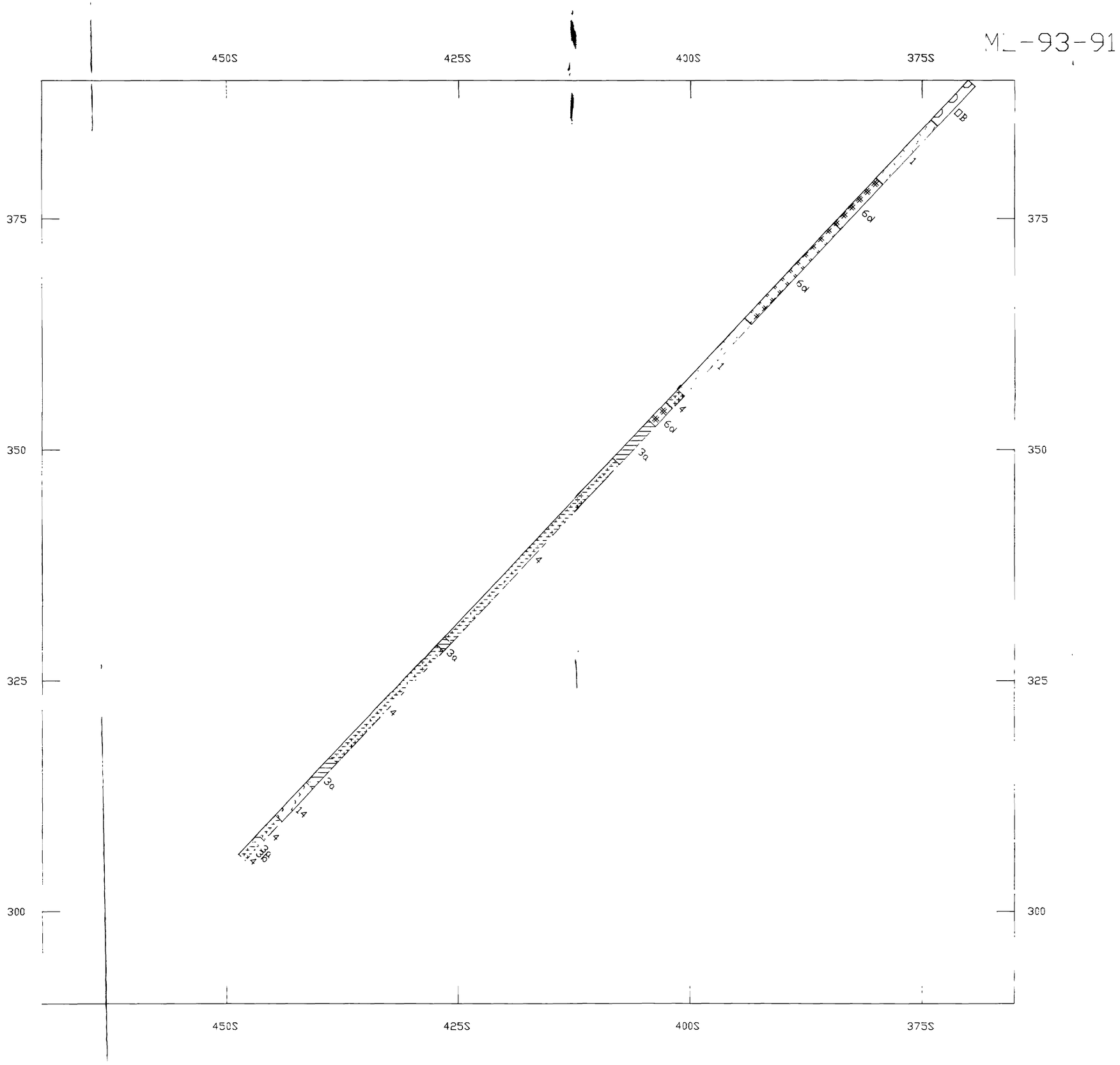
ML-93-91



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
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  - 8a - SHEARED GABBRO
  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

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  - 4a - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3c - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1e - TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

McVICAR LAKE PROPERTY
SECTION 5+25 W
GEOLOGY, AU
ML-93-91

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
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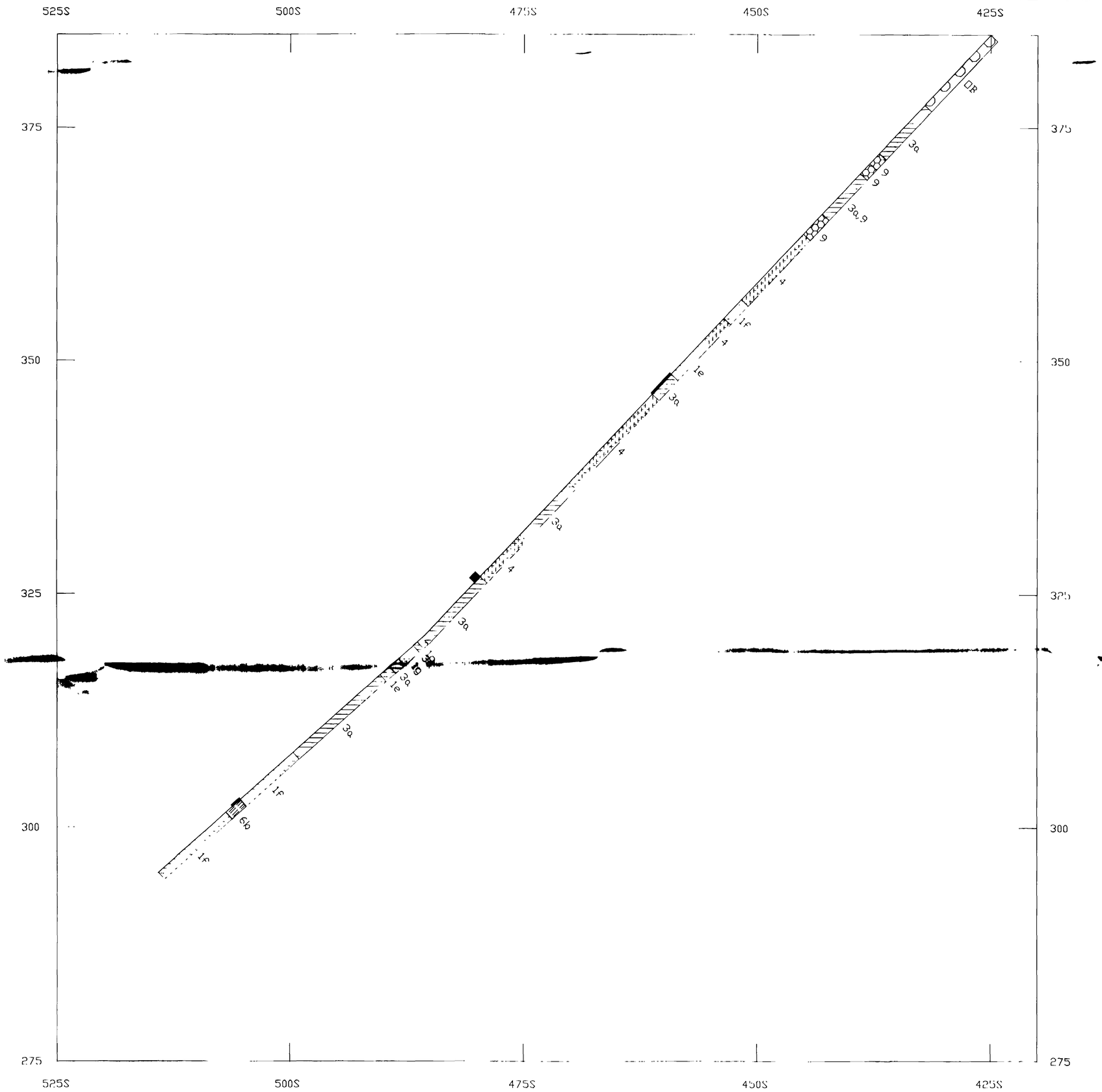
ML-93-92



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
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- 12 - TONALITE

McVICAR TECTONITES

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  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

- DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

McVICAR LAKE PROPERTY
SECTION 5+80 W
GEOLOGY, AU
ML-93-92

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
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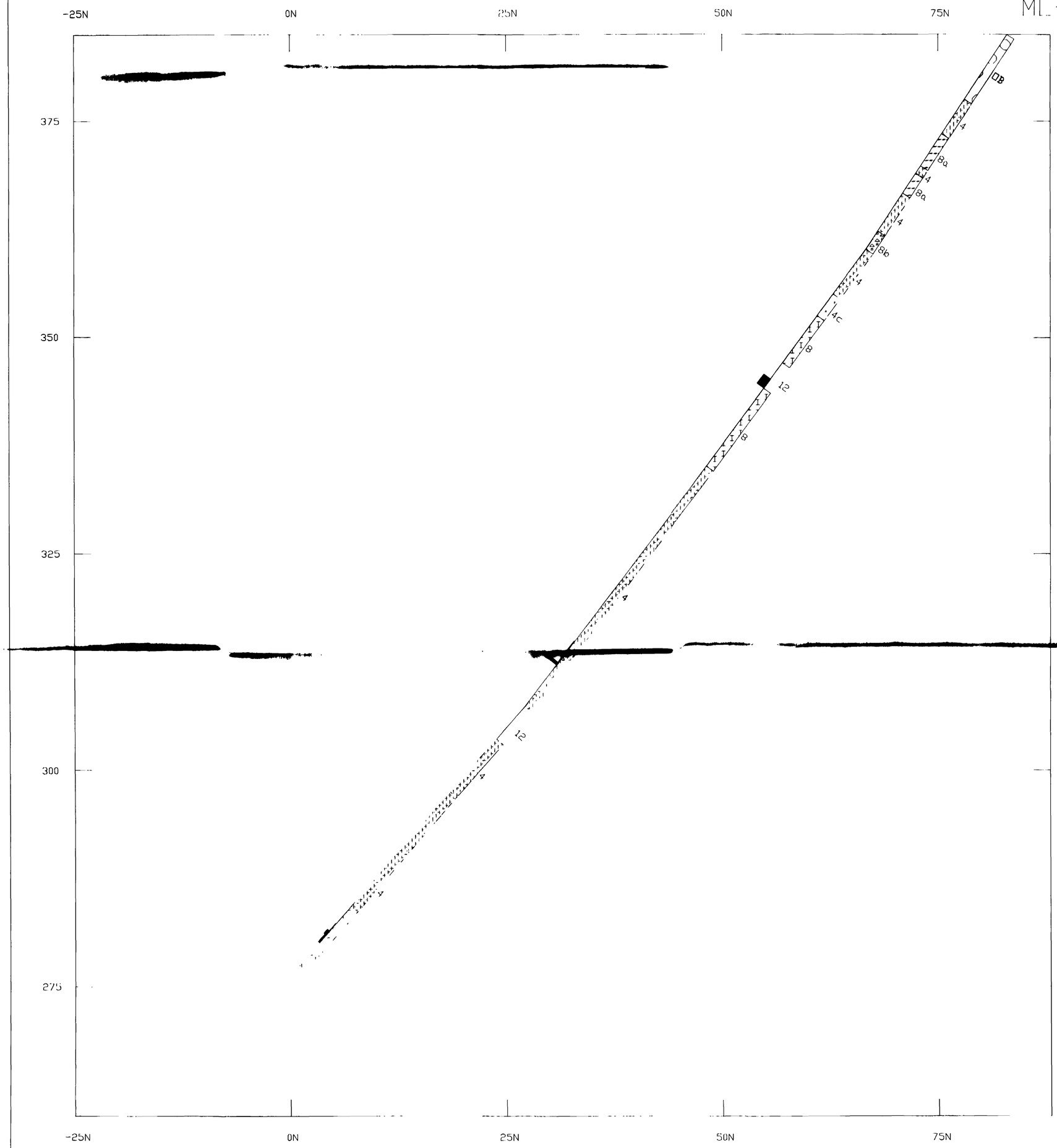
ML-93-93



LEGEND

LATE INTRUSIVES

- 15 MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
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  - 8a - SHEARED GABBRO
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  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 BASALT
- 1b - PORPHYRITIC
- 1e - TUFF
- 1f - TUFF (Silicified)
- 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

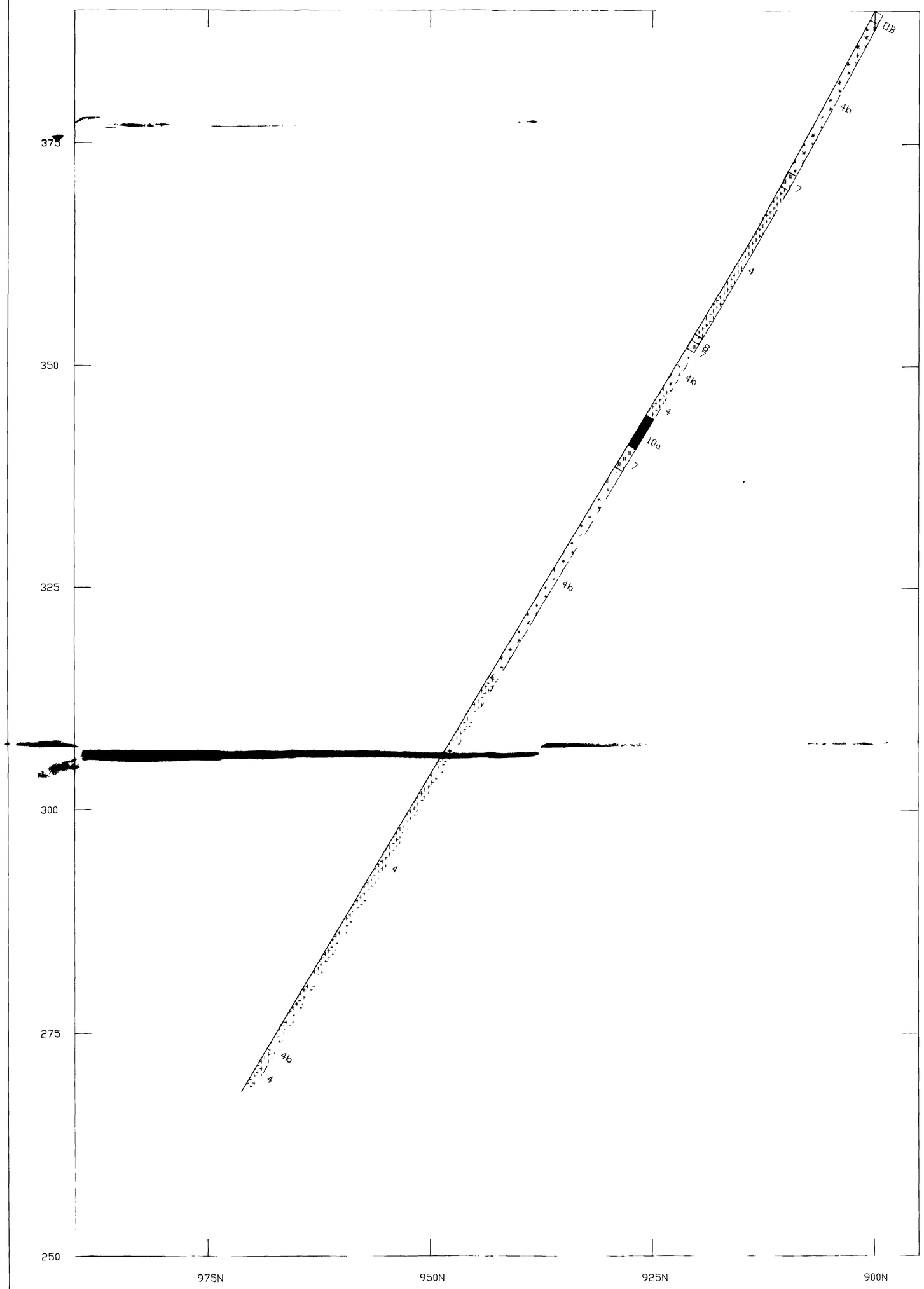
McVICAR LAKE PROPERTY
SECTION 3+00 W
GEOLOGY, AU
ML-93-93

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
NOV. 93	C.J.W.			52 O/11	1446	8 of 12

1:250 - METRES
0 7.5 15 22.5 30

300

ML 93-94



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
- 9 - FAULT GOUGE
- 8 - BRECCIATED/SHEARED GABBRO
  - 8a - SHEARED GABBRO
  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1e - TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

- DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

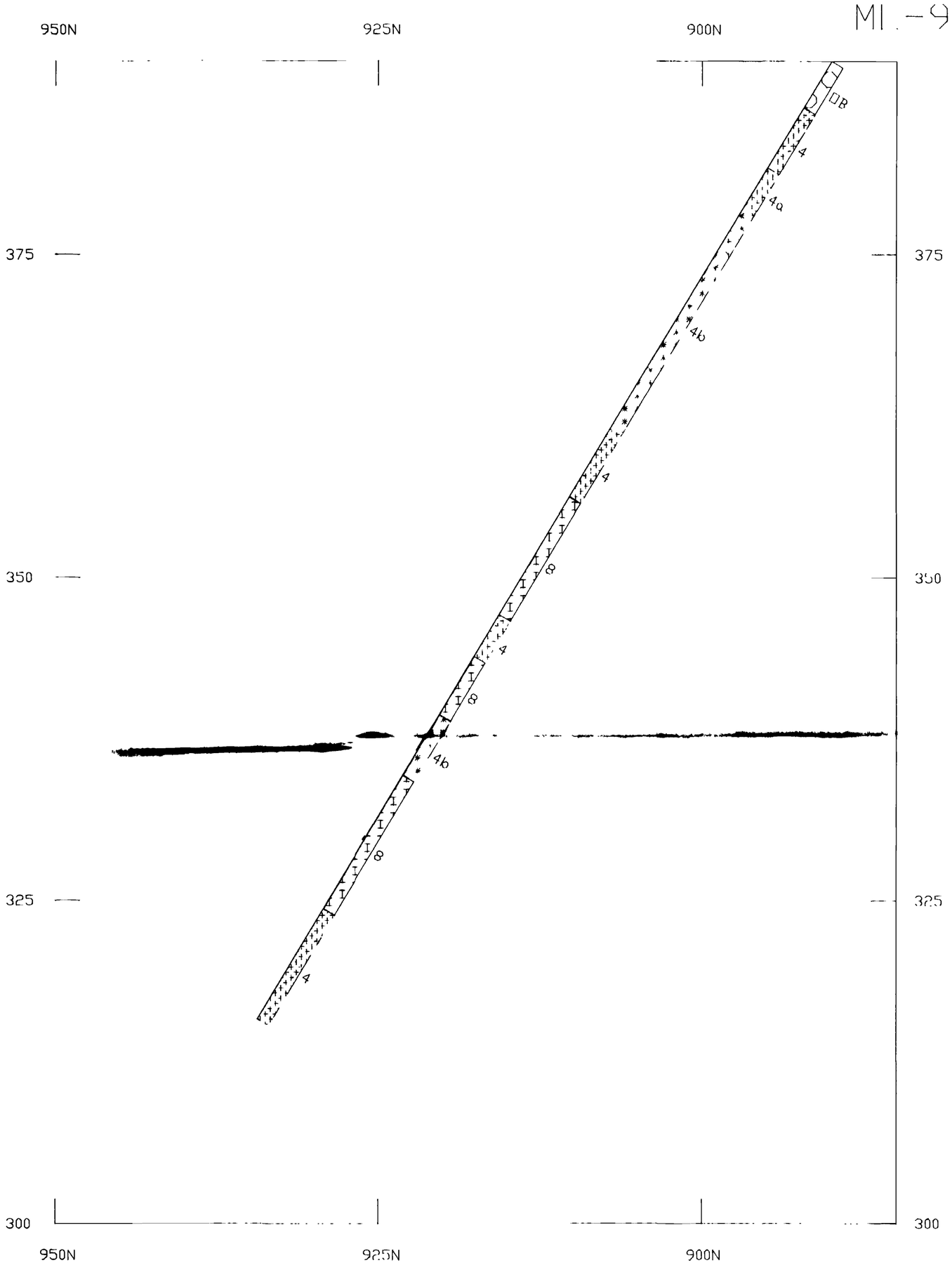
McVICAR LAKE PROPERTY
SECTION 21+70 W
GEOLOGY, AU
ML-93-94

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
NOV. 93	C.J.W.			52 O/11	1446	9 of 12

1:250 - METRES

0 7.5 15 22.5 30

ML-93-95



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
- 9 - FAULT GOUGE
- 8 - BRECCIATED/SHEARED GABBRO
  - 8a SHEARED GABBRO
  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1e TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

BHP MINERALS CANADA LTD.

EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

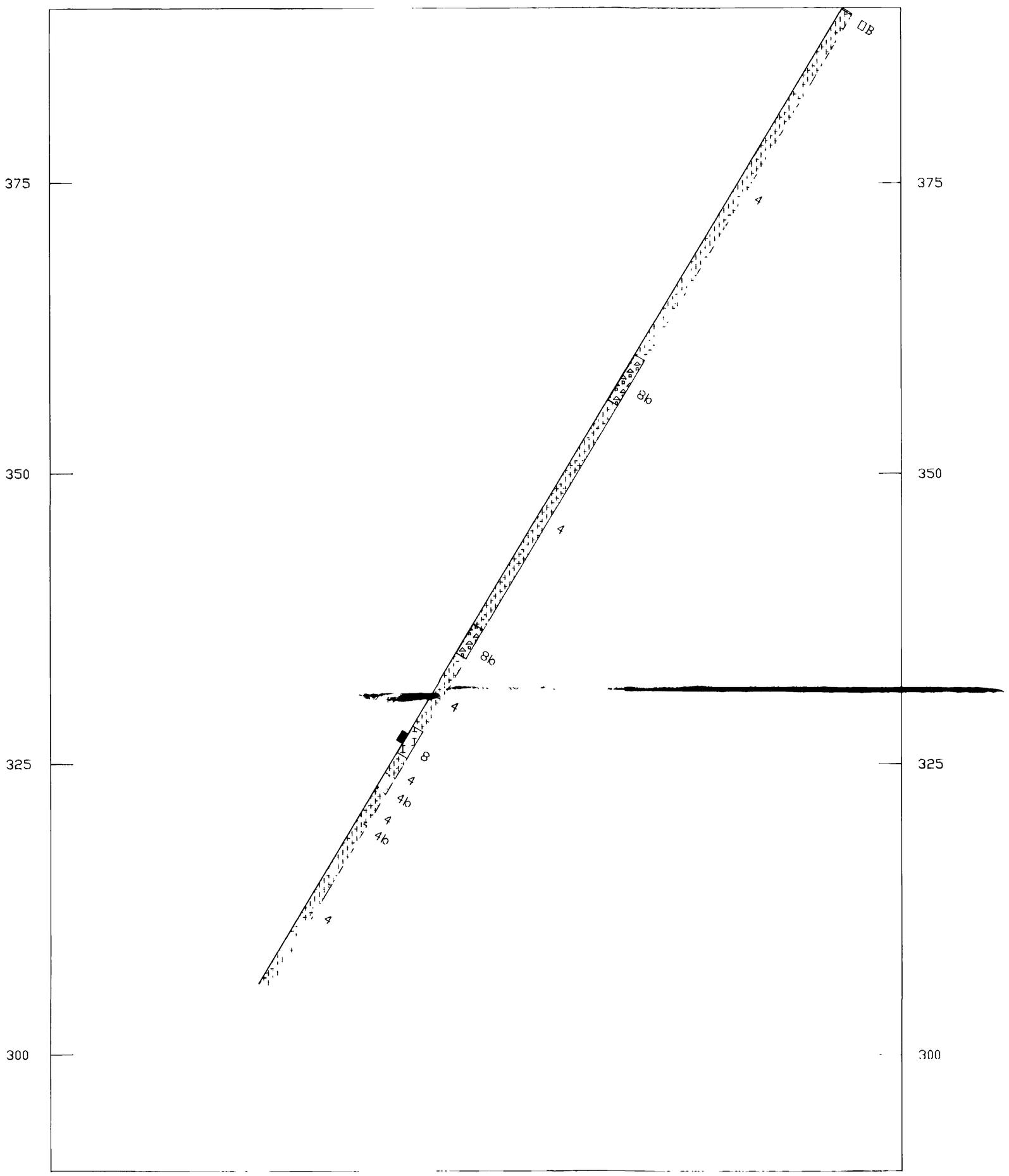
McVICAR LAKE PROPERTY
SECTION 22+40 W
GEOLOGY, AU
ML-93-95

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
NOV. 93	C.J.W.			52 O/11	1446	10 of 12

1:250 – METRES

0 7.5 15 22.5 30

ML-93-96



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
- 9 - FAULT GOUGE
- 8 - BRECCIATED/SHEARED GABBRO
  - 8a - SHEARED GABBRO
  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b MUDSTONE

MAFIC VOLCANICS

- 1 BASALT
  - 1a - PORPHYRITIC
  - 1e TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

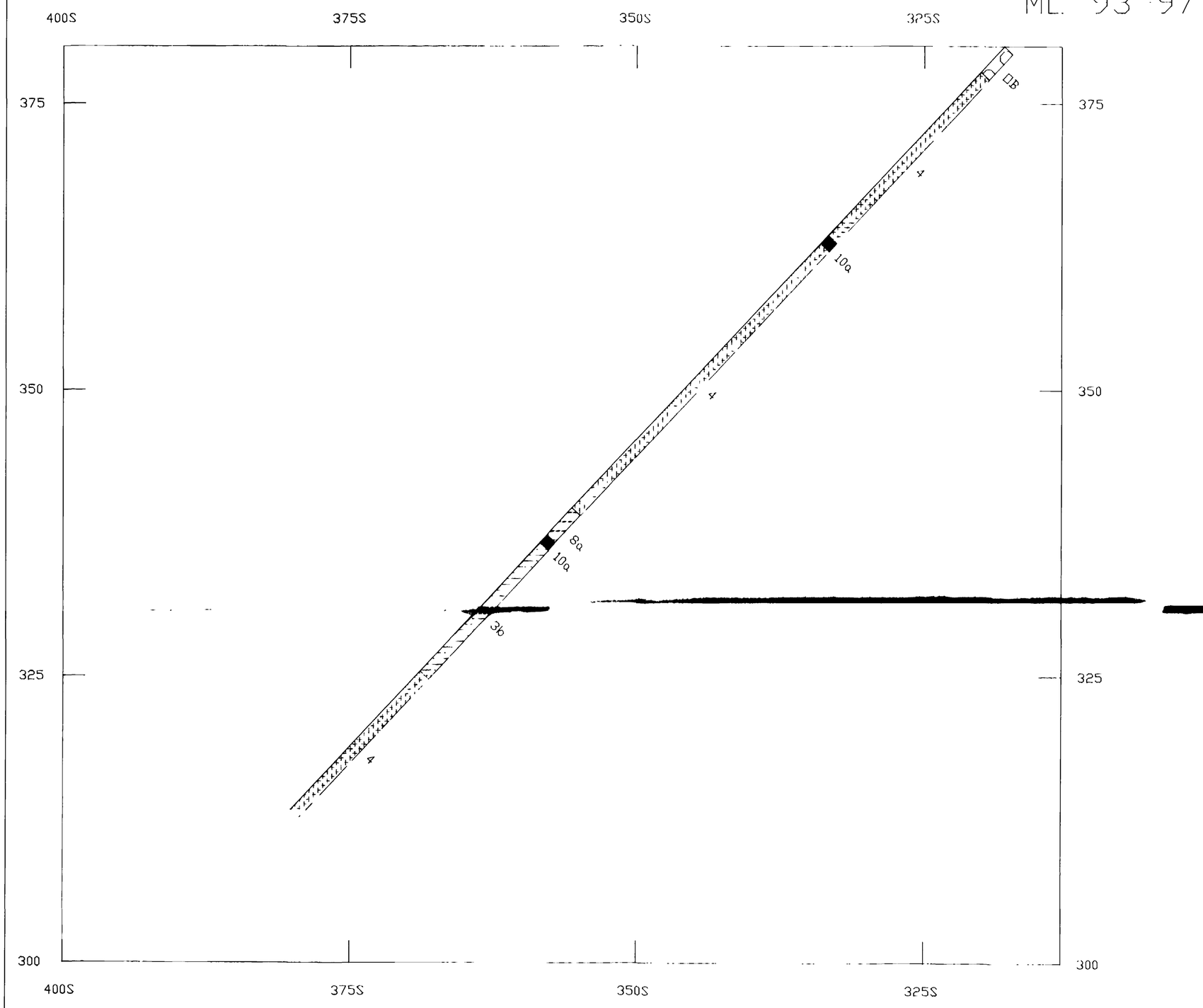
McVICAR LAKE PROPERTY
SECTION 21+47 W
GEOLOGY, AU
ML-93-96

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
NOV. 93	C.J.W.			52 O/11	1446	11 of 12

1:250 – METRES

0 7.5 15 22.5 30

ML. 93-97



LEGEND

LATE INTRUSIVES

- 15 - MIXED UNITS
- 14 - FELDSPAR PORPHYRY
- 12 - TONALITE

McVICAR TECTONITES

- 10a - QUARTZ VEIN
- 9 - FAULT GOUGE
- 8 - BRECCIATED/SHEARED GABBRO
  - 8a - SHEARED GABBRO
  - 8b - BRECCIATED GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
  - 6a - SHEARED BASALT
  - 6b - BRECCIATED BASALT
  - 6c - SERICITIC SCHIST
  - 6d - SILICIFIED BASALT

EARLY INTRUSIVE

- 4 - GABBRO
  - 4b - ANORTHOSITE
  - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

MAFIC VOLCANICS

- 1 - BASALT
  - 1a - PORPHYRITIC
  - 1e - TUFF
  - 1f - TUFF (Silicified)
  - 1g - TUFF (Sheared)

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 1000 ppb

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO , ONTARIO , CANADA

McVICAR LAKE PROPERTY
SECTION 44+50 E
GEOLOGY, AU
ML-93-97

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
NOV. 93	C.J.W.			52 O/11	1446	12 of 12

1:250 - METRES

0 7.5 15 22.5 30