



52011SW9310 40 MCVICAR LAKE

010

DIAMOND DRILLING

Area: McVicar lake

Report No: 40

WORK PERFORMED FOR: BHP MINERALS CANADA

RECORDED HOLDER: SAME AS ABOVE [X]

: OTHER []

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
Pa 1180579	ML 92 64	439	Feb 9 92	(1)
Pa 1180579	ML 92 66	339	Feb 15 92	"
Pa 1180579	ML 92 67	369	Feb 17 92	"
Pa 1180579	ML 92 67X	300	June 10 92	"
Pa 1180579	ML 92 76	399	Mar 5 92	"
Pa 1180579	ML 92 77	229	Mar 6 92	"
Pa 1180579	ML 92 79	419	June 8 92	"
Pa 1180579	ML 92 80	644	June 13 92	"
Pa 1180579	ML 92 81	409	June 16 92	"
Pa 1180579	ML 92 82	399	June 17 92	"
Pa 1180579	ML 92 83	399	June 18 92	"
Pa 1180579	ML 92 84	489	June 22 92	"
Pa 1180579	ML 92 85	379	June 24 92	"

NOTES: (1) Report of work # 9330 00001

Filed April 93



52011SW9310 40 MCVICAR LAKE

020

**SUPPLEMENTARY REPORT OF
DIAMOND DRILL ACTIVITIES
McVICAR LAKE PROPERTY
(1446)**

AN OMIP SPONSORED PROGRAM



by

R.G.BONNER, P.Geol.

BHP Minerals Canada Limited

November 15, 1992



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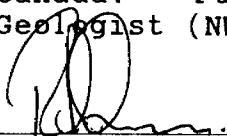
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STATEMENT OF QUALIFICATIONS

R.G. Bonner, B.Sc., P.Geol.

I, R.G. Bonner, completed the requirements for a Bachelor of Science Degree (Geology) at Brock University (1984) at St. Catharines, Ontario. In addition I hold a Geological Technician Diploma from Sir Sandford Fleming College (1978) at Lindsay, Ontario. I have been continuously employed as an Exploration - Project Geologist since 1984 on various projects throughout Canada. Furthermore, I am a licensed Professional Geologist (NWT), a member of the C.I.M. and SEG.



R.G. Bonner, B.Sc., P.Geol.



SUMMARY

The McVicar Lake Property comprises 384 contiguous mining claims located in Northwestern Ontario, NTS 52 O/11 and O/12. The property is an aggregate of approximately 7,936 hectares. The diamond drilling was limited to two mining claims located on the east shore of McVicar Lake and in the Shonia Lake area.

During the period May 31 to June 27, 1992 seven BDEGM diamond drill holes were completed with an aggregate footage of 3,438 feet (1,048 M). This program was designed to test the western extension of the Altered Zone Structure (AZS) in an area of known structural dilation. Secondly, an intense program tested the depth extensions of auriferous quartz veins about the Shonia #1 gold occurrence.

Geologically the area is underlain by Archean basaltic flows with interbedded ironstone tentatively correlated with the Meen-Jackknife Formation. These lithologies are in contact with a late gabbroic intrusive also of Archean age. A subsequent felsic intrusive phase positioned the Shonia Lake stock and the Sor Lake sill. All lithologies have been metamorphosed to greenschist facies. An in-depth discussion of the regional and local geology is available in several previously published reports (see Bonner 1992a).

Gold mineralization at 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 associated with pyrite mineralization although free gold is known to occur within the margins of quartz veins. A second style of mineralization is recognised in association with extensional pyritic quartz veins along the margins of late tonalitic intrusives in the Shonia Lake area and the Sor Lake area.

Two drill holes intersected high grade gold mineralization within quartz-pyrite veins and siliceous pyritic tonalite. Drill hole ML-92-82 intersected 0.342 oz/ton over 4.92 feet (11.7 g/mt over 1.5 m) and drill hole ML-92-83 intersected 1.65 oz/ton over 2.0 feet (56.5 g/mt over 0.6 m). Several additional intervals

reported values in excess of 1000 ppb gold. This supplementary seven hole program successfully intersected gold bearing quartz-pyrite veins now recognised associates of generally east-west trending ductile shears.

Structural measurements support a shallow plunging gold enriched envelope trending southwest from the Shonia #1 vein exposures. Vein continuity is also established notwithstanding a significant "nugget effect". Therefore, the drill hole array has defined a directional model for future targeting about the Shonia #1 gold occurrence.

Drill hole ML-92-79 intersected 2.1 metres of moderately altered and sheared sericite schist with minor apple green mica alteration. This interval represents the western edge of the North Flexure (NF) thus defining a surface expression of approximately 500 X 25 metres. The NF geometry is a mirror image of the Altered Zone dilation (AZ). Thus the NF is consigned to a lower target category.

CONCLUSIONS AND RECOMMENDATIONS

1. Drill hole ML-92-79 intersected the west edge of the North Flexure dilation. The drill hole location indicates a 500 X 25 metre surface expression for this dilation. Geometry, alteration, strike length, and gold distribution are strikingly similar to the Altered Zone dilation. This is an ill-fated likeness due to the limited potential of the AZ dilation. No further work is warranted in the vicinity of the NF.

2. At the Shonia #1 gold occurrence brittle quartz veins are the recognised associates of narrow ductile shear zones (sericite-pyrite schist). Vein geometry indicates a broad shallow plunging auriferous envelope extends to the southwest from the Shonia #1 vein exposures. Favourable dynamic conditions for quartz vein development exists within this envelope. A structural analysis indicates a 263°/33° trend for this envelope.

3. A recently completed IP survey to the south of the Shonia #1 occurrence has located several chargeability peaks within an area of overall elevated signatures. A detailed analysis of the peaks is recommended to define additional drill targets. Furthermore, small IP surveys are recommended to the immediate west and east of the south Shonia area. These surveys will better define the chargeability features associated with the intrusive margins. The specific areas are outlined under separate cover.

4. Drill hole ML-92-82 intersected 0.348 oz/ton gold over 4.92 feet. This intersection occurs at the end of the most northern drill hole and remains open in all directions. Two drill holes recommended to "bracket" this mineable grade - mineable width intersection. The following drill collars are recommended:

Hole #	Line	Picket	Depth	Dip	Azm
ML-93-86	86+00E	31+50S	650'	-45	360
ML-93-87	85+75E	31+50S	650'	-50	360

The first drill hole will intersect the down dip extension of the target and the second will test the west extension approximately 20 metres down dip (accommodating a 33° plunge).

5. A down plunge test of the Shonia #1 gold envelope is also recommended. Drill hole ML-93-86 (see point 4) will intersect the envelope on route to the target.



R.G. BONNER, B.Sc., P.Geol.
TIMMINS, ONTARIO



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 LTD. during the period of May 31 to June 27, 1992. 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:

KRL 886074, PA 1180579

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. Charter services were provided by Goldbelt Air and Winisk Air, both based in Pickle Lake.

1.3 Topography and Vegetation

The topography is generally flat lying and moderately covered by glacial debris. Outcroppings are uncommon and rarely exceed 20 metres in height. There is approximately 5% bedrock exposure.

Vegetation comprises spruce and birch trees in low lying areas with jackpine dominating the sandy ridges.

1.4 Previous Work By BHP MINERALS CANADA LTD.

Previous to June 1992 BHP Minerals completed several phases of diamond drilling with an approximate aggregate footage of 24,000 feet in seventy-eight drill holes. The drill activities were

complimented by geological, geophysical and geochemical surveys. These activities have persisted since 1985.

The bulk of diamond drilling on this property tested the extensions of sub-cropping auriferous mineralization contained within two plunging, intensely sheared and altered dilation zones; the Altered Zone and the North Flexure.

1.5 Current Drilling Objectives

The objectives of the June 1992 supplementary diamond drill program were to test the down dip and strike extensions of the Shonia Lake #1 gold occurrence and the western extension of the North Flexure.

DIAMOND DRILLING

2.1 Introduction

During the period May 31, 1992 through June 27, 1992 a series of seven diamond drill holes were completed to evaluate the Shonia #1 occurrence and the west extension of the North Flexure (NF). Additionally, one previous drill hole was re-entered and extended (ML-92-67X). The aggregate footage drilled during this phase was 3,438 feet (1,048 m).

Diamond drilling services were provided by Langley Drilling Ltd. utilising a JKS 300 diamond drill. Transportation of the diamond drill was provided 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 (UTM XH 6110 57135). Drill collar locations are indicated on Plan 1. Completed diamond drill logs for each hole are included in Appendix I.

The drill core was routinely split and delivered to TSL Laboratories 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 a follow-up free gold analysis on samples reporting in excess of 1000 ppb gold. The Report of Analysis is included for reference in Appendix II. A second series of samples were subjected to a whole rock technique. The Multi-element Report of Analysis is included for reference in Appendix III.

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.

2.2 Section 11+00E (ML-92-79)

One drill hole (ML-92-79) was collared on L11+00W, 3+13S facing south (azimuth 180°), dipping at -51°. This drill hole tested the western extension of the AZS just west of the NF in the area of a weak surficial (?) airborne anomaly (AEM). A lithological summary is presented in Table 2.2a, graphical representations are found in Figure 2.2b and Section Plan 3.

ML-92-79 intersected the target zone through the interval 368.0'-391.0'. This interval consists of moderate apple green altered sericite schist containing minor pyrite.

Nine intervals were selected for gold analysis. The highest value reported is 330 ppb gold from the interval 384.0'-389.0'. This is described as a quartz veined apple green sericite rich interval.

Table 2.2a: LITHOLOGICAL SUMMARY - ML-92-79

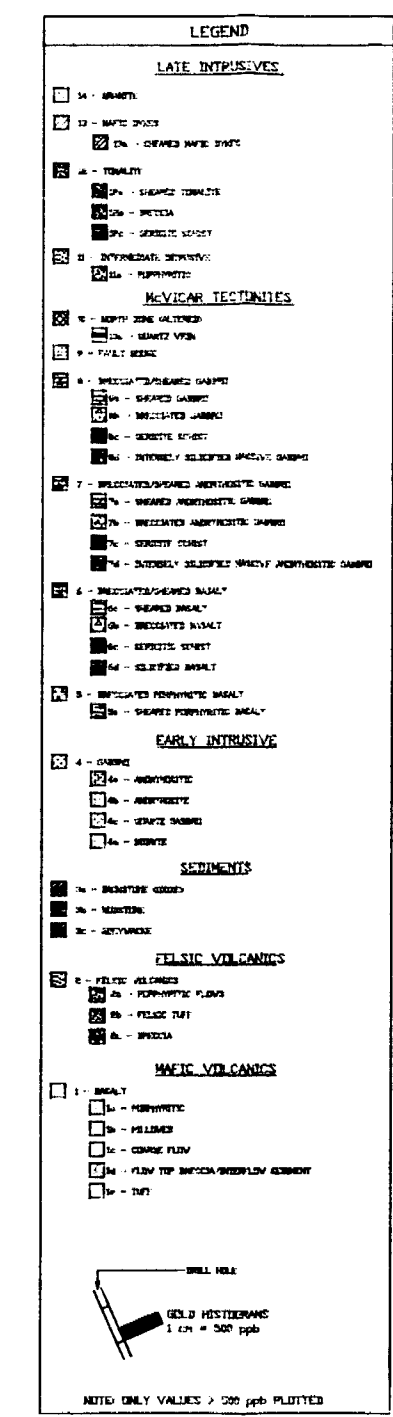
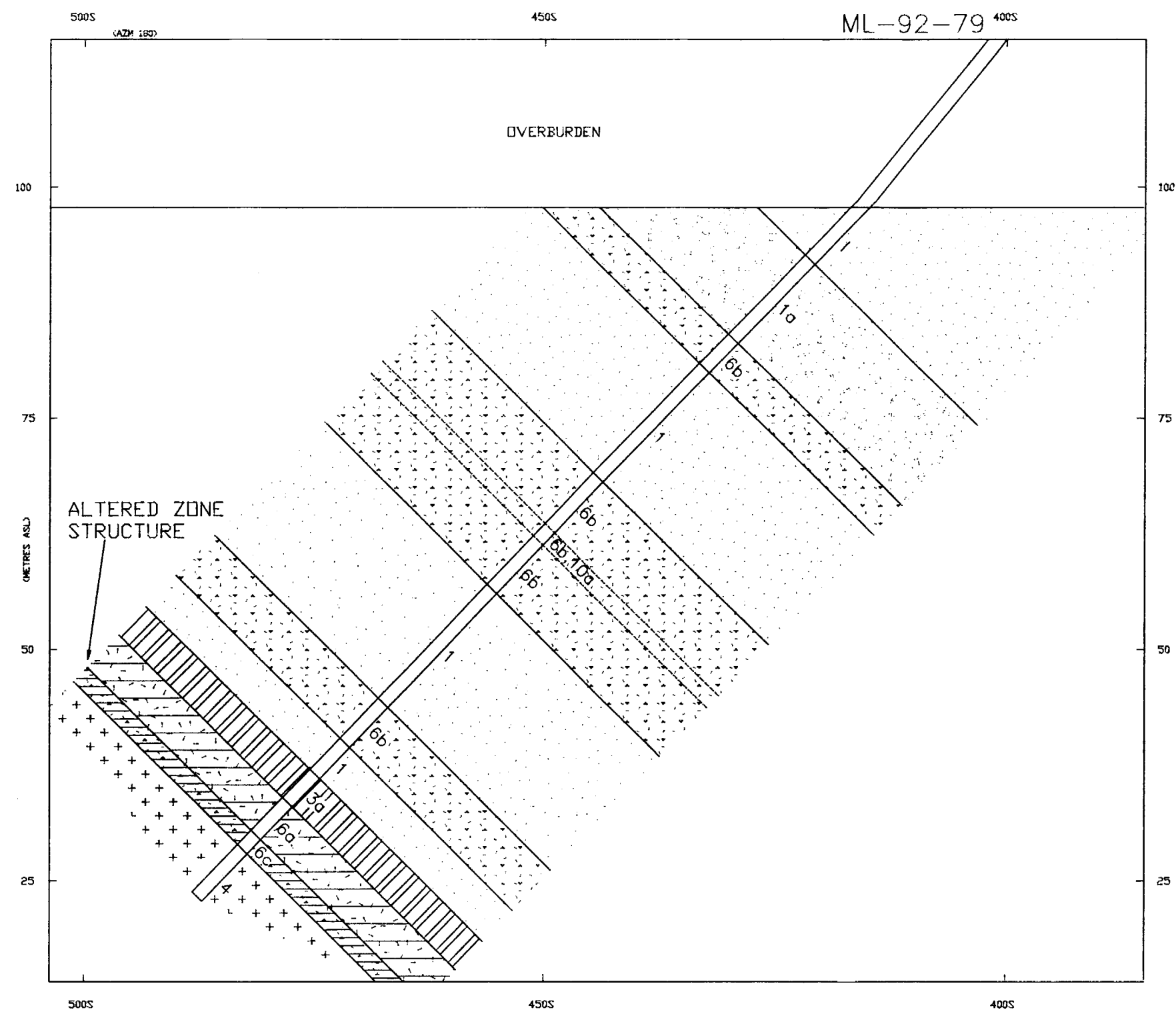
<u>Footage</u>		<u>Lithology</u>
0.0	77.0	Overburden
77.0	100.5	Basalt
100.5	139.5	Porphyritic Basalt
139.5	154.0	Silicified Brecciated Basalt
154.0	182.0	Basalt
182.0	196.0	Silicified Basalt
196.0	208.0	Basalt
208.0	233.0	Carbonate Breccia
233.0	239.0	Carbonate Breccia with Quartz Stockwork
239.0	263.0	Carbonate Breccia
263.0	319.0	Basalt
319.0	338.7	Brecciated Basalt
338.7	354.0	Basalt
354.0	368.0	Ironstone/Chloritic Mudstone
368.0	384.0	Sheared Basalt
384.0	391.0	Sericite Schist
391.0	419.0	Gabbro
419.0		End of Hole

2.3 Section 87+00E (ML-92-67X)

One drill hole (ML-92-67X) was extended from an existing collar located on L87+00E, 31+60S drilling on section (azimuth 360°), dipping at -49°. This drill hole tested the proposed down dip extension of the anomalous gold intervals reported in ML-92-64. A lithological summary is presented in Table 2.3a, graphical representations are found in Figure 2.3b and Section Plan 4. A complete summary is tabulated here for comprehensiveness, it incorporates ML-92-67 and ML-92-67X.

ML-92-67X intersected auriferous quartz veins through the interval 581.0'-621.0'. This interval consists of massive tonalite with scattered narrow quartz-pyrite veins. Minor disseminated pyrite is also associated with the tonalite. No single vein is identified as the down dip extension of the Shonia #1 vein.

Forty three intervals were selected for gold analysis. The highest value reported is 1450 ppb gold from sample 8030. The interval contains an eight centimetre quartz-pyrite vein. Samples



WEST OF NORTH FLEXURE AREA

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, CANADA

McVICAR LAKE PROPERTY
SECTION L 1100
GEOLOGY, AU
DDH ML-92-79

DATE	DRAWN	REVISION	BY	FILE	MAP
1992-07-15	JGP	1	JGP	1100	1100

1:5000 - METRES

Figure 2.2b Section 11+00E (ML-92-79)

8021 and 8025 report 1200 and 1050 ppb gold respectively. Both intervals are characterized by disseminated pyrite in tonalite.

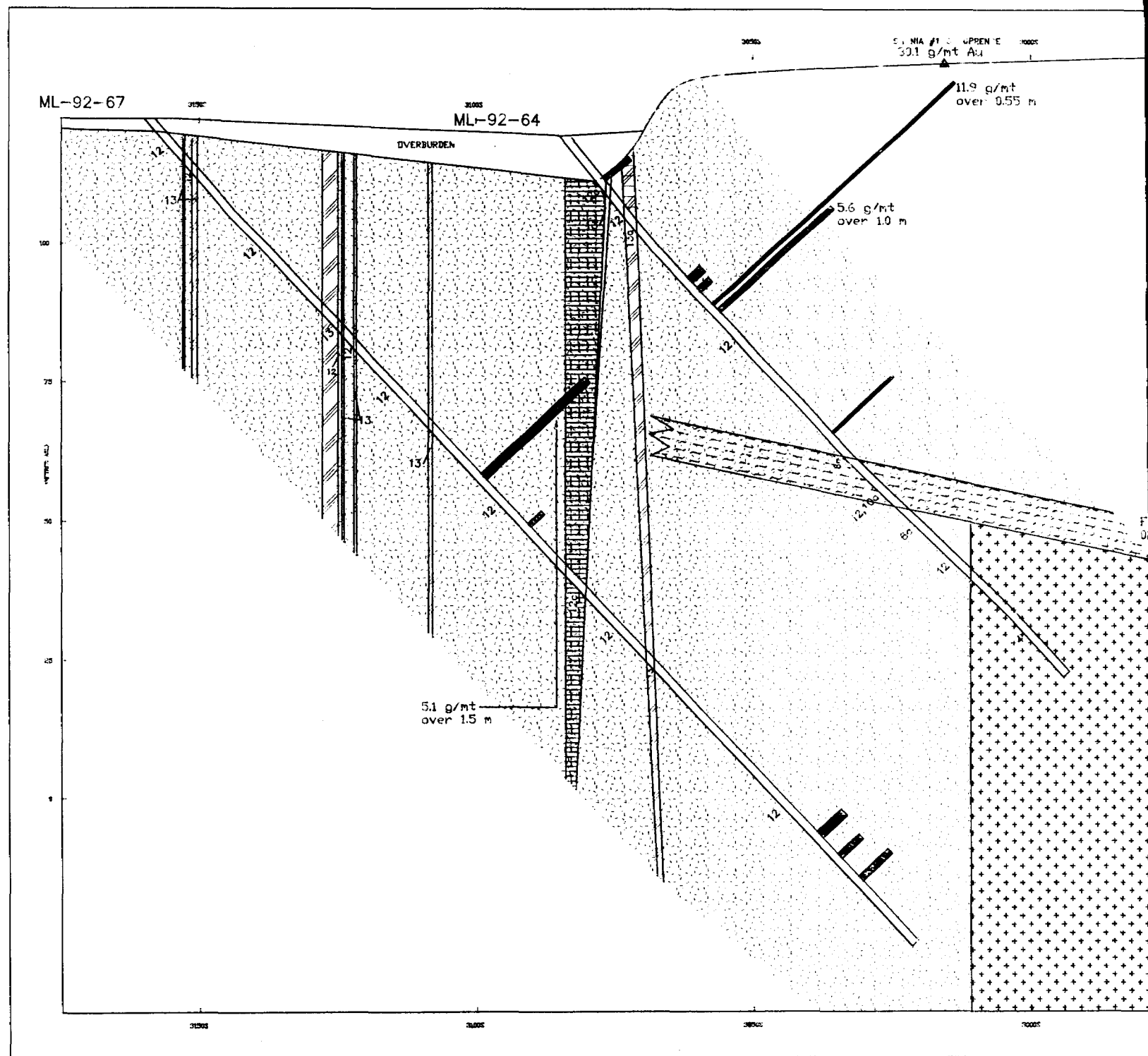
Table 2.3a: LITHOLOGICAL SUMMARY - ML-92-67,67X

<u>Footage</u>		<u>Lithology</u>
0.0	10.0	Overburden
10.0	35.5	Tonalite
35.5	37.0	Mafic Dyke
37.0	43.5	Tonalite
43.5	48.5	Mafic Dyke
48.5	158.5	Tonalite
158.5	172.0	Mafic Dyke
172.0	175.0	Tonalite
175.0	177.0	Mafic Dyke
177.0	185.5	Tonalite
185.5	188.0	Mafic Dyke
188.0	250.4	Tonalite
250.4	254.0	Mafic Dyke
254.0	369.0	Tonalite
369.0		End of Hole (Feb. 92)
 ML-92-67X		
369.0	369.2	Tonalite
369.2	386.5	Sericite Schist
386.5	669.0	Tonalite
699.0		End of Hole (June 92)

Eleven additional follow-up samples were selected from the original ML-92-67 core. The highest assay reported is 5100 ppb gold from a 5.0' interval of tonalite with pyritic-chloritic fractures.

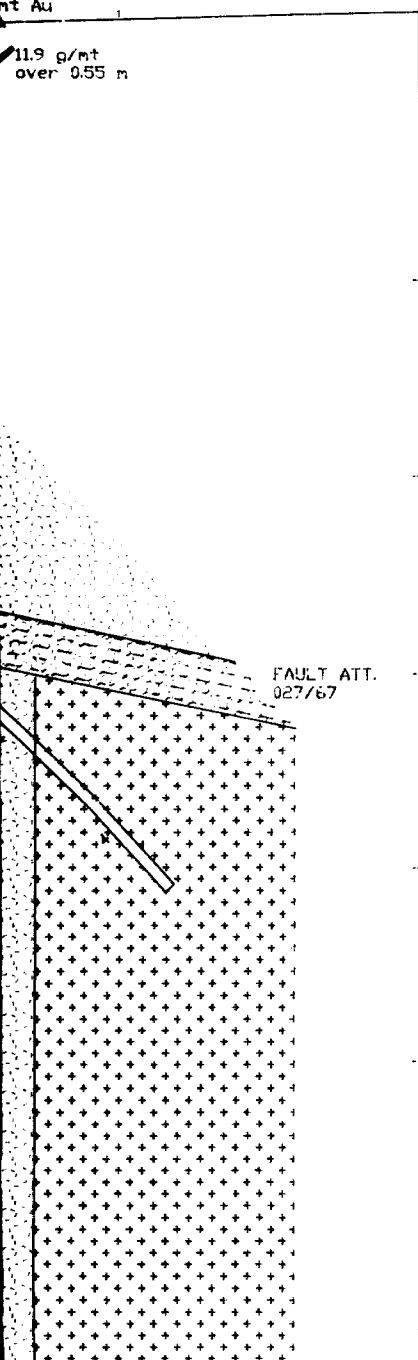
2.4 Section 86+75E (ML-92-83, 84)

Two drill holes ML-92-83 and ML-92-84 collared at 31+00S and 31+20S respectively on L86+75E. Both drill holes faced grid north (azimuth 360°), dipping at -50°. A lithological summary is presented in Table 2.4a, graphical representations are found in Figure 2.4b and Section Plan 5.



COCCURRENCE
mt Au

11.9 g/mt
over 0.55 m



COCCURRENCE #1

LEGEND	
LITHOLOGY	
☐	1. Gneiss
☐	2. Quartzite
☐	3. Metasediments
☐	4. Metavolcanics
☐	5. Metamorphics
☐	6. Metagabbro
☐	7. Metagranite
☐	8. Metadiabase
☐	9. Metasiltstone
☐	10. Metashale
☐	11. Metapelite
☐	12. Metagraywacke
☐	13. Metaglimstone
☐	14. Metagranulite
☐	15. Metagabbro
☐	16. Metagranite
☐	17. Metadiabase
☐	18. Metasiltstone
☐	19. Metashale
☐	20. Metapelite
☐	21. Metagraywacke
☐	22. Metaglimstone
☐	23. Metagranulite
☐	24. Metagabbro
☐	25. Metagranite
☐	26. Metadiabase
☐	27. Metasiltstone
☐	28. Metashale
☐	29. Metapelite
☐	30. Metagraywacke
☐	31. Metaglimstone
☐	32. Metagranulite
☐	33. Metagabbro
☐	34. Metagranite
☐	35. Metadiabase
☐	36. Metasiltstone
☐	37. Metashale
☐	38. Metapelite
☐	39. Metagraywacke
☐	40. Metaglimstone
☐	41. Metagranulite
☐	42. Metagabbro
☐	43. Metagranite
☐	44. Metadiabase
☐	45. Metasiltstone
☐	46. Metashale
☐	47. Metapelite
☐	48. Metagraywacke
☐	49. Metaglimstone
☐	50. Metagranulite
☐	51. Metagabbro
☐	52. Metagranite
☐	53. Metadiabase
☐	54. Metasiltstone
☐	55. Metashale
☐	56. Metapelite
☐	57. Metagraywacke
☐	58. Metaglimstone
☐	59. Metagranulite
☐	60. Metagabbro
☐	61. Metagranite
☐	62. Metadiabase
☐	63. Metasiltstone
☐	64. Metashale
☐	65. Metapelite
☐	66. Metagraywacke
☐	67. Metaglimstone
☐	68. Metagranulite
☐	69. Metagabbro
☐	70. Metagranite
☐	71. Metadiabase
☐	72. Metasiltstone
☐	73. Metashale
☐	74. Metapelite
☐	75. Metagraywacke
☐	76. Metaglimstone
☐	77. Metagranulite
☐	78. Metagabbro
☐	79. Metagranite
☐	80. Metadiabase
☐	81. Metasiltstone
☐	82. Metashale
☐	83. Metapelite
☐	84. Metagraywacke
☐	85. Metaglimstone
☐	86. Metagranulite
☐	87. Metagabbro
☐	88. Metagranite
☐	89. Metadiabase
☐	90. Metasiltstone
☐	91. Metashale
☐	92. Metapelite
☐	93. Metagraywacke
☐	94. Metaglimstone
☐	95. Metagranulite
☐	96. Metagabbro
☐	97. Metagranite
☐	98. Metadiabase
☐	99. Metasiltstone
☐	100. Metashale
☐	101. Metapelite
☐	102. Metagraywacke
☐	103. Metaglimstone
☐	104. Metagranulite
☐	105. Metagabbro
☐	106. Metagranite
☐	107. Metadiabase
☐	108. Metasiltstone
☐	109. Metashale
☐	110. Metapelite
☐	111. Metagraywacke
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☐	113. Metagranulite
☐	114. Metagabbro
☐	115. Metagranite
☐	116. Metadiabase
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☐	134. Metadiabase
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☐	148. Metaglimstone
☐	149. Metagranulite
☐	150. Metagabbro
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☐	152. Metadiabase
☐	153. Metasiltstone
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☐	156. Metagraywacke
☐	157. Metaglimstone
☐	158. Metagranulite
☐	159. Metagabbro
☐	160. Metagranite
☐	161. Metadiabase
☐	162. Metasiltstone
☐	163. Metashale
☐	164. Metapelite
☐	165. Metagraywacke
☐	166. Metaglimstone
☐	167. Metagranulite
☐	168. Metagabbro
☐	169. Metagranite
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☐	174. Metagraywacke
☐	175. Metaglimstone
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☐	185. Metagranulite
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☐	191. Metapelite
☐	192. Metagraywacke
☐	193. Metaglimstone
☐	194. Metagranulite
☐	195. Metagabbro
☐	196. Metagranite
☐	197. Metadiabase
☐	198. Metasiltstone
☐	199. Metashale
☐	200. Metapelite

Figure 2.3b: Section 87+00E (ML-92-67X)

BHP MINERALS CANADA LTD
2000
McVICAR LAKE PROPERTY
SECTION L 8700
GEOLOGICAL
DDH ML-92-64, 67
1992

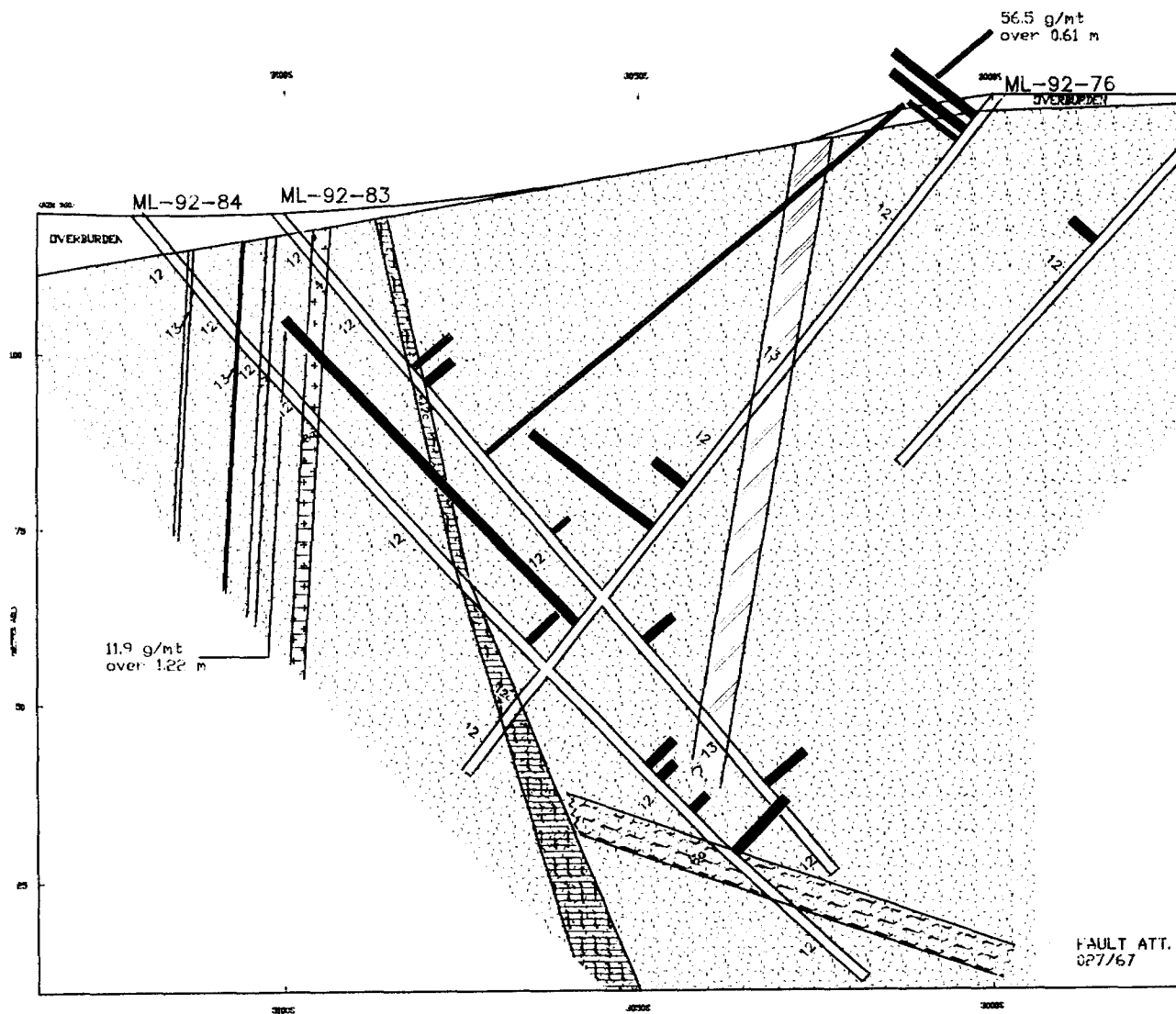
Table 2.4a: LITHOLOGICAL SUMMARY - ML-92-83, 84

<u>Footage</u>		<u>Lithology</u>
ML-92-83		
0.0	11.5	Overburden
11.5	20.5	Tonalite
20.5	32.0	Gabbro
32.0	89.0	Tonalite
89.0	101.0	Sericite Schist
101.0	300.2	Tonalite
300.2	320.0	Mafic Dyke
320.0	399.0	Tonalite
399.0		End of Hole
ML-92-84		
0.0	24.0	Overburden
24.0	32.5	Tonalite
32.5	35.9	Mafic Dyke
35.9	68.5	Tonalite
68.5	70.1	Mafic Dyke
70.1	85.0	Tonalite
85.0	91.0	Mafic Dyke
91.0	115.0	Tonalite
115.0	125.5	Sheared Gabbro
125.5	219.5	Tonalite
219.5	230.0	Sericite Schist
230.0	403.0	Tonalite
403.0	414.5	Quartz-Fe-Carbonate-Chlorite Zone
414.5	428.5	Sheared Gabbro
428.5	489.0	Tonalite
489.0		End of Hole

ML-92-83 and 84 intersected several quartz-pyrite veins throughout the section. Additionally, a narrow pyritic sericite schist (fault zone) was intersected in each of the drill holes.

177 intervals were selected for gold analysis (102 from ML-92-83). The highest values reported is 56,500 ppb gold from the interval 145.0'-147.0' in ML-92-83. This high grade interval features a quartz-pyrite-iron carbonate vein with minor chalcopyrite and visible gold on fractures.

Drill hole ML-92-83 also reports three additional significant intervals. Sample 8923 reports 1400 ppb gold from a 3.0' interval of pyritic sericite schist (fault zone). Sample 8274 reports 1050 ppb gold from a 4.0' interval with a quartz-pyrite veinlet and



sample 8286 reports 1400 ppb gold from a similar 4.0' interval with several quartz-pyrite veinlets.

Drill hole ML-92-84 reports three significant intervals. Sample 8319 reports 1150 ppb gold from a 3.0' interval containing a 10 centimetre quartz-pyrite-chalcopyrite-iron carbonate vein. Sample 8339 reports 1000 ppb gold from a 4.0' interval of tonalite with pyrite-chalcopyrite-chlorite veinlets. Sample 8334 reports 2100 ppb gold from a 4.0' interval of tonalite with disseminated pyrite (<1%).

2.5 Section 86+50E (ML-92-80)

One drill hole (ML-92-80) was collared on L86+50E, 31+27S facing grid north (azimuth 360°), dipping at -45°. This drill hole tested the down dip extension of the +24 g/mt gold-quartz vein intersected in ML-92-66. A lithological summary is presented in Table 2.5a, graphical representations are found in Figure 2.5b and Section Plan 6.

ML-92-80 intersected several quartz-pyrite veins through the section. Quartz veins are characterized by massive pyrite blebs with associate iron carbonate filling. Auriferous veins may or may not have chalcopyrite and visible gold. There is little to no shearing associated with the veins.

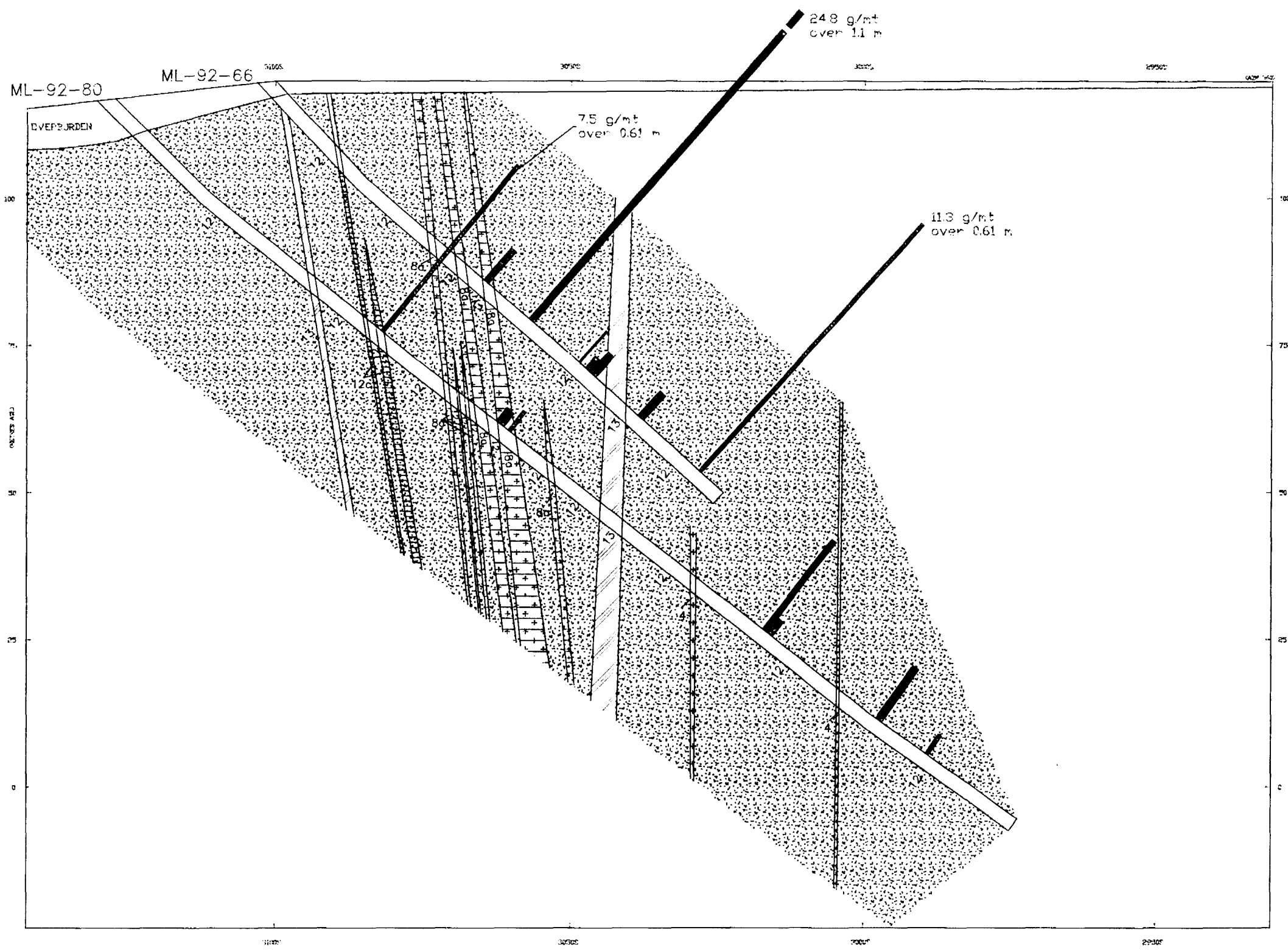
124 intervals were selected for gold analysis. Three significant gold assays are reported. Sample 8055 reports 7250 ppb gold from an interval described as sericite schist with minor quartz-pyrite veining. This interval contains a single quartz veinlet approximately one centimetre wide with pyrite and visible gold. Sample 8106 reports 3850 ppb gold from an 3.0' interval of tonalite with a single minor quartz-iron carbonate-pyrite veinlet. Sample 8119 reports 2150 ppb gold from a 4.0' interval with a one centimetre quartz-pyrite-sericite veinlet. Additionally, numerous intervals report gold assays in excess of 100 ppb gold.

Table 2.5a: LITHOLOGICAL SUMMARY - ML-92-80

<u>Footage</u>	<u>Lithology</u>
0.0	Overburden
25.0	Tonalite
143.4	Mafic Dyke
149.0	Tonalite
183.0	Sericite Schist
186.0	Tonalite
192.3	Sericite Schist
198.5	Tonalite
240.5	Sheared Gabbro
244.5	Tonalite
250.0	Sheared Gabbro
251.5	Tonalite
255.5	Sheared Gabbro
258.0	Tonalite
262.0	Sheared Gabbro
270.7	Tonalite
278.0	Sheared Altered Gabbro
291.0	Tonalite
313.0	Sheared Altered Gabbro
317.5	Tonalite
351.3	Mafic Dyke
367.0	Tonalite
415.0	Gabbro
419.0	Tonalite
519.0	Gabbro
521.0	Tonalite
644.0	End of Hole

2.6 Section 86+25E (ML-92-81)

One drill hole (ML-92-81) collared at L86+23E, 31+03S facing grid north (azimuth 360°), dipping at -50°. This drill hole tested the western extension of the Shonia #1 gold occurrence. A lithological summary is presented in Table 2.6a, graphical representations are found in Figure 2.6b and Section Plan 7.



LEGEND

LATE INTRUSIVES

- 1 - GRANITE
- 2 - DIORITE
- 3 - GABBRO
- 4 - GABBRO
- 5 - GABBRO
- 6 - GABBRO
- 7 - GABBRO
- 8 - GABBRO
- 9 - GABBRO
- 10 - GABBRO

NEOVICAR TECTONITES

- 11 - NEOVICAR TECTONITE
- 12 - NEOVICAR TECTONITE
- 13 - NEOVICAR TECTONITE
- 14 - NEOVICAR TECTONITE
- 15 - NEOVICAR TECTONITE
- 16 - NEOVICAR TECTONITE
- 17 - NEOVICAR TECTONITE
- 18 - NEOVICAR TECTONITE
- 19 - NEOVICAR TECTONITE
- 20 - NEOVICAR TECTONITE

EARLY INTRUSIVE

- 21 - EARLY INTRUSIVE
- 22 - EARLY INTRUSIVE
- 23 - EARLY INTRUSIVE
- 24 - EARLY INTRUSIVE
- 25 - EARLY INTRUSIVE
- 26 - EARLY INTRUSIVE
- 27 - EARLY INTRUSIVE
- 28 - EARLY INTRUSIVE
- 29 - EARLY INTRUSIVE
- 30 - EARLY INTRUSIVE

SEDIMENTS

- 31 - SEDIMENT
- 32 - SEDIMENT
- 33 - SEDIMENT
- 34 - SEDIMENT
- 35 - SEDIMENT
- 36 - SEDIMENT
- 37 - SEDIMENT
- 38 - SEDIMENT
- 39 - SEDIMENT
- 40 - SEDIMENT

PLUTONIC VOLCANICS

- 41 - PLUTONIC VOLCANIC
- 42 - PLUTONIC VOLCANIC
- 43 - PLUTONIC VOLCANIC
- 44 - PLUTONIC VOLCANIC
- 45 - PLUTONIC VOLCANIC
- 46 - PLUTONIC VOLCANIC
- 47 - PLUTONIC VOLCANIC
- 48 - PLUTONIC VOLCANIC
- 49 - PLUTONIC VOLCANIC
- 50 - PLUTONIC VOLCANIC

MAGIC VOLCANICS

- 51 - MAGIC VOLCANIC
- 52 - MAGIC VOLCANIC
- 53 - MAGIC VOLCANIC
- 54 - MAGIC VOLCANIC
- 55 - MAGIC VOLCANIC
- 56 - MAGIC VOLCANIC
- 57 - MAGIC VOLCANIC
- 58 - MAGIC VOLCANIC
- 59 - MAGIC VOLCANIC
- 60 - MAGIC VOLCANIC

SHONIA #1 OCCURRENCE

GOLD HISTOGRAMS

NOTE: ONLY VALUES > 100 g/t PLOTTED

GHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO

McVICAR LAKE PROPERTY
SECTION L 8650
GEOLOGY, AU
DDH ML-92-66,80

DATE	DRAWN	CHECKED	REVISED	BY	FILE	MAP
1992-08-11	J. J.	J. J.			1448	

1:50,000

Figure 2.5b Section 86+50E (ML-92-80)

Table 2.6a: LITHOLOGICAL SUMMARY - ML-92-81

<u>Footage</u>		<u>Lithology</u>
0.0	7.0	Overburden
7.0	126.5	Tonalite
126.5	135.0	Sericite Schist
135.0	140.5	Tonalite
140.5	143.5	Sericite Schist
143.5	174.5	Tonalite
174.5	185.0	Gabbro
185.0	270.0	Tonalite
270.0	287.0	Mafic Dyke
287.0	304.0	Tonalite
304.0	313.0	Sheared Tonalite/Sericite Schist
313.0	409.0	Tonalite
409.0		End of Hole

ML-92-81 intersected the sericite shear zone in addition to numerous quartz-iron carbonate-pyrite veins. The quartz-pyrite veins are evenly distributed throughout the drill hole.

Sixty seven intervals were selected for gold analysis. Two intervals report elevated gold values. The highest assay is 2250 ppb gold (sample 8177) from a 4.0' interval of sheared mafic dyke with minor (<1%) disseminated pyrite and few pyritic stringers. Sample 8144 reports 1150 ppb gold from a 4.0' interval with two quartz-pyrite-iron carbonate veinlets.

2.7 Section 86+00E (ML-92-82)

One drill hole (ML-92-82) collared at L86+00E, 31+00S facing north (azimuth 360°), dipping at -50°. This drill hole tested the western extension of the Shonia #1 gold occurrence. A lithological summary is presented in Table 2.7a, graphical representations are found in Figure 2.7b and Section Plan 8.

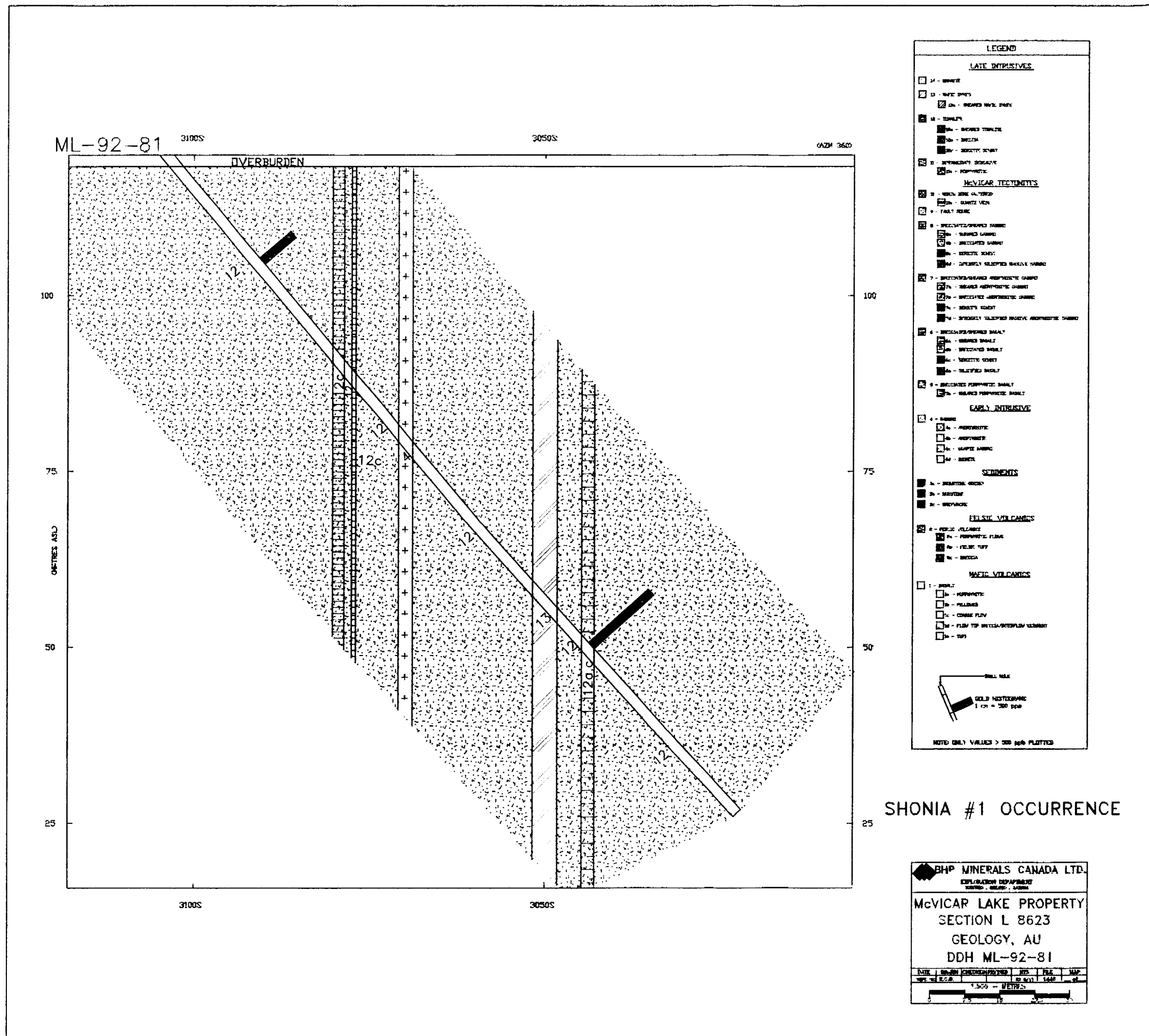


Figure 2.6b Section 86+25E (ML-92-81)

Table 2.7a: LITHOLOGICAL SUMMARY - ML-92-82

<u>Footage</u>		<u>Lithology</u>
0.0	6.0	Overburden
6.0	15.4	Tonalite
15.4	23.4	Sheared Gabbro
23.4	40.5	Tonalite
40.5	46.0	Quartz Vein
46.0	158.0	Tonalite
158.0	178.0	Sheared Gabbro
178.0	189.0	Tonalite
189.0	205.0	Gabbro
205.0	235.0	Tonalite
235.0	249.0	Mafic Dyke
249.0	289.5	Tonalite
289.5	296.0	Mafic Dyke
296.0	377.5	Tonalite
377.5	394.7	Sericite Schist
394.7	399.0	Tonalite
399.0		End of Hole

ML-92-82 intersected numerous quartz-pyrite-iron carbonate veins throughout the section. An unexpected sericite shear zone is featured at the end of the section.

Forty five core intervals were selected for gold analysis. Three significant gold assays are reported from various intervals throughout the drill hole. The highest value reported (21,070 ppb gold) is sample 8223 from 373.5'-374.5'. This interval is characterised by weak sericite alteration with fine chloritic fractures with fine disseminated pyrite. Veining is not present. Immediately adjacent sample 8224 reports 5450 ppb gold from a 3.0' interval of non-descript tonalite. Sample 8218 reports 2850 ppb gold from a 2.0' interval containing a 15 centimetre quartz-pyrite vein.

2.8 Section 85+75E (ML-92-85)

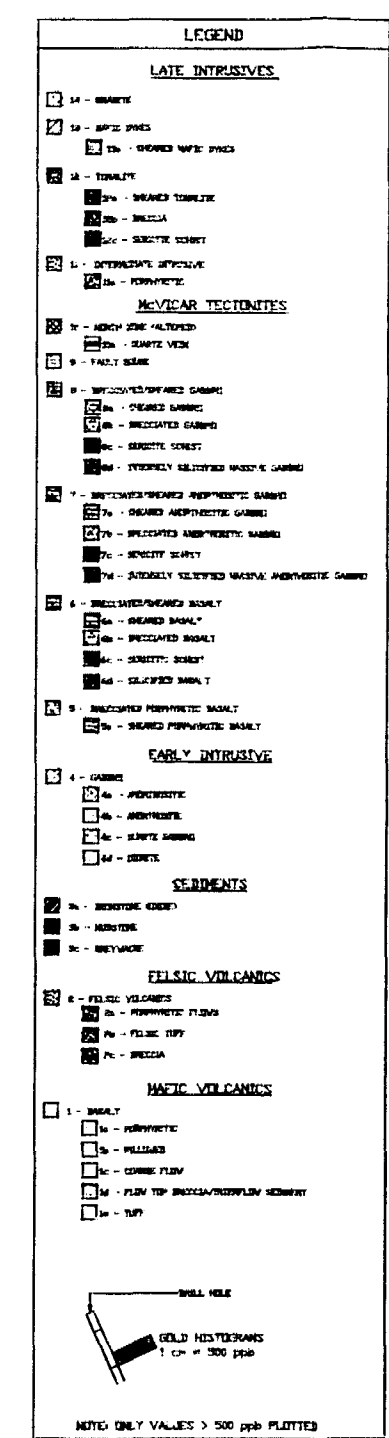
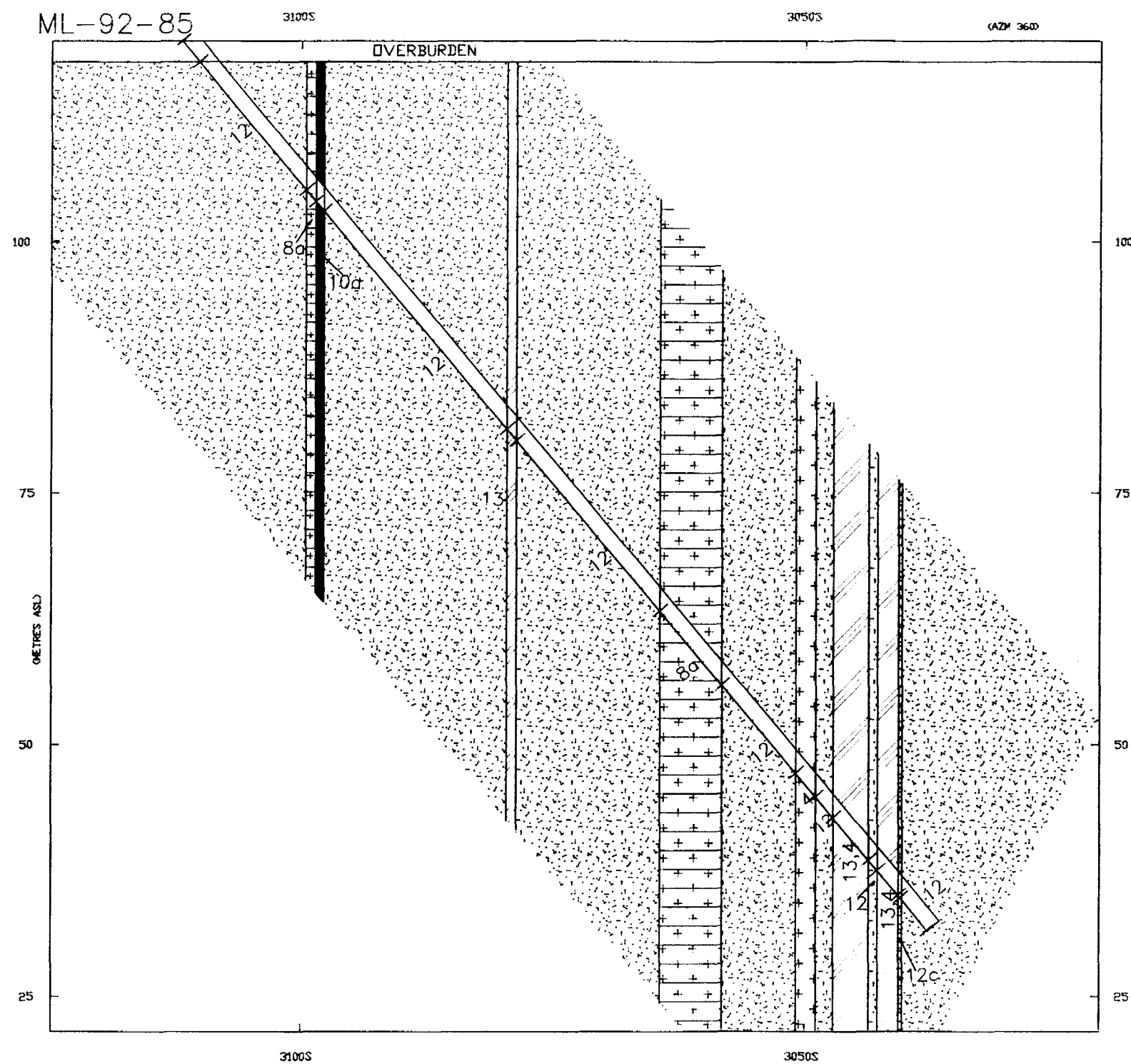
One drill hole (ML-92-85) collared at L85+75E, 31+10S facing north (azimuth 360°), dipping at -50°. This drill hole tested the western extension of the Shonia #1 quartz vein occurrence. A lithological summary is presented in Table 2.8a, graphical representations are found in Figure 2.8b and Section Plan 9.

Table 2.8a: LITHOLOGICAL SUMMARY - ML-92-85

<u>Footage</u>		<u>Lithology</u>
0.0	9.0	Overburden
9.0	63.5	Tonalite
63.5	68.5	Sheared Gabbro
68.5	72.5	Quartz Zone
72.5	165.5	Tonalite
165.5	170.5	Mafic Dyke
170.5	243.0	Tonalite
243.0	274.5	Sheared Gabbro
274.5	312.0	Tonalite
312.0	322.0	Gabbro
322.0	331.0	Tonalite
331.0	349.0	Mafic Dyke
349.0	353.5	Tonalite
353.5	364.0	Mafic Dyke
364.0	365.0	Sericite Schist
365.0	379.0	Tonalite
379.0		End of Hole

ML-92-85 intersected a wide zone of fractured tonalite. Fractures are characterised by the carbonate-chlorite-pyrite fillings and coatings. Within this wide zone numerous quartz and quartz-pyrite veins are observed.

Forty three core intervals were selected for gold analysis. No significant gold assays are reported. The highest value reported is 300 ppb gold (sample 8374) from a 4.0' interval.



RESULTS

Collar elevations are determined from a altimeter. The gently rolling terrain was considered for calculations to target depth and for section plotting. Target attitude is determined from section constructions and structural measurements.

Geological sections with gold histograms have been plotted (1:500) and appended for reference (Section Plans 3-9).

All anomalous gold (>100 ppb) assays reported from the 1992 McVicar Lake drill program are tabulated in Table 3.1a (n=157), a complete report of all the analytical results has been included in Appendix II (n=675). The analytical results for drill holes ML-92-64, 66, 67, 76, and 77 are also included for reporting purposes following the completion of a second pass sampling program. (Note: 5 digit sample numbers were previously reported and are not included in the population totals)

Table 3.1a: ANOMALOUS GOLD INTERVALS - McVICAR LAKE 1991

<u>HOLE #</u>	<u>SAMPLE</u>	<u>INTERVAL (M)</u>	<u>GOLD (PPB)</u>
ML-92-64	59802	10.80 - 11.70	1200
ML-92-64	8436	34.76 - 36.28	620
ML-92-64	59809	37.40 - 38.50	560
ML-92-64	8391	39.79 - 40.70	120
ML-92-64	8392	40.70 - 41.40	110
ML-92-64	59810	41.40 - 41.90	11900
ML-92-64	59811	42.80 - 43.70	5600
ML-92-64	8394	43.70 - 45.24	240
ML-92-64	8439	45.24 - 46.01	100
ML-92-64	59812	46.90 - 48.08	300
ML-92-64	8442	49.30 - 50.52	160
ML-92-64	8443	50.52 - 51.43	120
ML-92-64	59813	52.30 - 53.75	140
ML-92-64	8445	53.75 - 54.57	210
ML-92-64	8447	55.49 - 56.19	130
ML-92-64	8450	57.93 - 58.99	120
ML-92-64	8452	59.91 - 60.88	110
ML-92-64	8453	60.88 - 61.89	100
ML-92-64	8454	61.89 - 62.80	270
ML-92-64	8455	62.80 - 63.72	100

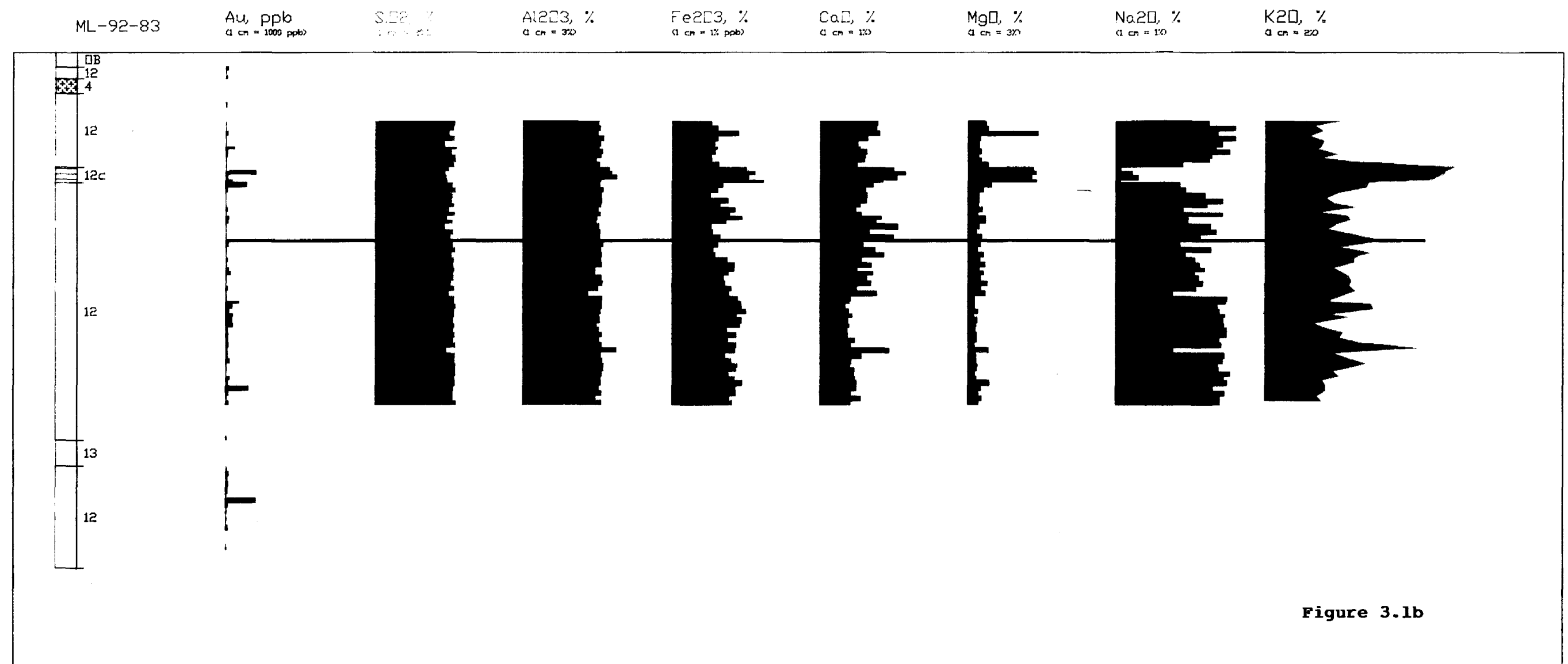
HOLE #	SAMPLE	INTERVAL (M)	GOLD (PPB)
ML-92-64	8456	63.72 - 64.79	180
ML-92-64	59814	72.10 - 72.90	260
ML-92-64	59815	72.90 - 73.40	3000
ML-92-66	8469	4.57 - 5.37	220
ML-92-66	8471	13.72 - 14.63	160
ML-92-66	59853	48.93 - 50.00	1400
ML-92-66	59855	51.10 - 52.53	120
ML-92-66	59856	55.79 - 56.70	350
ML-92-66	59859	59.00 - 60.10	24830
ML-92-66	59860	60.10 - 61.20	160
ML-92-66	59861	61.20 - 62.20	180
ML-92-66	8488	65.55 - 66.77	140
ML-92-66	8489	66.77 - 67.68	270
ML-92-66	8490	67.68 - 68.75	170
ML-92-66	59864	70.20 - 70.50	1400
ML-92-66	59866	71.70 - 72.90	510
ML-92-66	59867	72.90 - 74.12	910
ML-92-66	59868	81.10 - 82.32	450
ML-92-66	8401	82.32 - 83.84	150
ML-92-66	59869	83.84 - 85.06	1100
ML-92-66	8402	85.06 - 86.59	170
ML-92-66	59870	88.11 - 88.72	120
ML-92-66	8404	88.72 - 89.94	180
ML-92-66	8491	90.85 - 91.46	100
ML-92-66	8492	94.51 - 95.79	200
ML-92-66	8495	97.74 - 98.35	11300
ML-92-67	59877	30.80 - 32.01	300
ML-92-67	8408	88.72 - 90.20	5100
ML-92-67	59882	91.20 - 91.77	420
ML-92-67	8410	99.39 - 100.91	260
ML-92-67	59883	100.91 - 101.80	670
ML-92-67	8914	144.21 - 145.43	450
ML-92-67	8919	150.61 - 151.83	130
ML-92-67	8921	153.05 - 154.27	280
ML-92-67	8011	163.70 - 165.20	430
ML-92-67	8013	166.80 - 168.30	140
ML-92-67	8015	169.50 - 171.00	140
ML-92-67	8018	173.20 - 174.10	290
ML-92-67	8021	177.10 - 178.70	1200
ML-92-67	8023	180.20 - 181.10	100
ML-92-67	8024	181.10 - 182.60	260
ML-92-67	8025	182.60 - 183.80	1050
ML-92-67	8030	188.10 - 189.30	1450
ML-92-67	8031	189.30 - 190.20	130
ML-92-67	8034	193.30 - 194.80	120

HOLE #	SAMPLE	INTERVAL (M)	GOLD (PPB)
ML-92-76	60628	3.40 - 4.60	2900
ML-92-76	60630	5.80 - 7.00	2600
ML-92-76	60631	7.00 - 7.90	150
ML-92-76	60632	7.90 - 8.50	1700
ML-92-76	60633	8.50 - 9.80	210
ML-92-76	60634	9.80 - 11.00	350
ML-92-76	60635	11.00 - 11.89	400
ML-92-76	60636	13.57 - 14.60	240
ML-92-76	60637	14.60 - 15.85	360
ML-92-76	60638	25.40 - 26.62	330
ML-92-76	60639	31.71 - 32.90	210
ML-92-76	60640	38.90 - 39.76	230
ML-92-76	8952	63.72 - 64.94	270
ML-92-76	8953	64.94 - 66.16	240
ML-92-76	8954	66.16 - 67.38	130
ML-92-76	8955	67.38 - 68.60	150
ML-92-76	60641	69.82 - 71.04	1100
ML-92-76	8957	71.04 - 72.26	180
ML-92-76	8958	72.26 - 73.48	200
ML-92-76	60642	77.44 - 78.66	4300
ML-92-76	8418	78.66 - 79.57	130
ML-92-76	8419	79.57 - 80.79	170
ML-92-76	8963	83.84 - 85.06	320
ML-92-76	8967	91.16 - 92.38	180
ML-92-76	8970	94.82 - 96.04	11900
ML-92-76	8972	97.26 - 98.48	100
ML-92-76	60647	112.70 - 113.90	350
ML-92-77	60648	26.10 - 27.10	100
ML-92-77	60649	27.10 - 28.40	870
ML-92-77	60656	64.80 - 65.80	170
ML-92-77	60658	66.80 - 67.80	130
ML-92-79	8001	112.20 - 113.70	260
ML-92-79	8005	117.10 - 118.60	330
ML-92-80	8038	17.10 - 18.30	210
ML-92-80	8045	34.10 - 35.20	120
ML-92-80	8052	45.40 - 46.60	130
ML-92-80	8813	57.62 - 58.63	110
ML-92-80	8055	59.91 - 60.50	7250
ML-92-80	8059	68.00 - 69.20	250
ML-92-80	8068	84.80 - 86.30	560
ML-92-80	8070	87.20 - 87.80	830
ML-92-80	8073	89.90 - 91.20	110
ML-92-80	8074	91.20 - 92.50	130
ML-92-80	8079	96.80 - 97.90	160
ML-92-80	8081	99.10 - 100.30	100
ML-92-80	8083	101.50 - 102.70	190
ML-92-80	8084	102.70 - 104.00	110

HOLE #	SAMPLE	INTERVAL (M)	GOLD (PPB)
ML-92-80	8085	104.00 - 105.20	150
ML-92-80	8086	105.20 - 106.10	210
ML-92-80	8092	120.70 - 121.60	110
ML-92-80	8094	122.90 - 123.60	190
ML-92-80	8095	123.60 - 124.70	140
ML-92-80	8097	127.70 - 129.00	330
ML-92-80	8102	133.80 - 135.10	210
ML-92-80	8103	135.10 - 136.30	110
ML-92-80	8106	142.10 - 143.00	3850
ML-92-80	8107	143.00 - 144.20	600
ML-92-80	8108	144.50 - 145.70	180
ML-92-80	8111	151.20 - 152.40	400
ML-92-80	8115	156.10 - 157.30	180
ML-92-80	8117	164.33 - 165.50	100
ML-92-80	8119	166.80 - 168.00	2150
ML-92-80	8126	175.90 - 177.10	150
ML-92-80	8127	177.10 - 177.70	760
ML-92-80	8130	181.40 - 182.60	190
ML-92-80	8134	187.50 - 188.70	100
ML-92-80	8135	188.70 - 189.90	220
ML-92-80	8136	189.90 - 191.20	110
ML-92-80	8137	191.20 - 192.40	290
ML-92-80	8139	193.60 - 194.50	100
ML-92-81	8140	8.20 - 9.50	140
ML-92-81	8144	18.90 - 20.10	1150
ML-92-81	8145	20.10 - 21.30	180
ML-92-81	8146	24.10 - 25.30	170
ML-92-81	8148	26.50 - 27.10	450
ML-92-81	8151	29.60 - 30.80	100
ML-92-81	8157	50.50 - 51.40	240
ML-92-81	8161	56.40 - 57.60	190
ML-92-81	8166	61.60 - 62.70	130
ML-92-81	8170	77.10 - 78.00	240
ML-92-81	8173	88.10 - 89.30	240
ML-92-81	8177	94.20 - 95.40	2250
ML-92-81	8179	96.30 - 97.30	220
ML-92-81	8849	98.48 - 100.00	130
ML-92-81	8181	100.90 - 101.80	200
ML-92-81	8850	108.84 - 110.06	100
ML-92-82	8211	66.80 - 68.00	330
ML-92-82	8218	98.80 - 99.40	2850
ML-92-82	8861	113.11 - 113.57	110
ML-92-82	8223	113.60 - 114.20	21070
ML-92-82	8224	114.20 - 115.10	5450
ML-92-82	8225	118.60 - 119.40	190

HOLE #	SAMPLE	INTERVAL (M)	GOLD (PPB)
ML-92-83	8237	22.30 - 22.90	380
ML-92-83	8923	28.05 - 28.96	1400
ML-92-83	8925	30.18 - 30.79	270
ML-92-83	8926	30.79 - 32.01	960
ML-92-83	8248	38.70 - 39.60	120
ML-92-83	8253	44.20 - 44.80	56507
ML-92-83	8259	50.90 - 51.80	100
ML-92-83	8260	51.80 - 52.70	190
ML-92-83	8929	58.84 - 59.45	600
ML-92-83	8930	59.45 - 60.67	280
ML-92-83	8931	60.67 - 61.89	130
ML-92-83	8932	61.89 - 62.50	300
ML-92-83	8265	62.50 - 64.00	270
ML-92-83	8266	64.00 - 64.90	300
ML-92-83	8934	72.26 - 73.48	150
ML-92-83	8271	76.52 - 77.40	140
ML-92-83	8274	78.70 - 79.90	1050
ML-92-83	8275	79.90 - 81.10	100
ML-92-83	8277	82.30 - 83.20	110
ML-92-83	8280	98.80 - 100.00	100
ML-92-83	8286	105.20 - 106.40	1400
ML-92-84	8296	14.00 - 14.90	120
ML-92-84	8297	14.90 - 15.50	270
ML-92-84	8938	68.14 - 68.90	130
ML-92-84	8317	79.27 - 80.18	230
ML-92-84	8319	81.40 - 82.32	1150
ML-92-84	8328	92.07 - 93.29	100
ML-92-84	8329	93.29 - 94.51	110
ML-92-84	8330	94.51 - 95.73	140
ML-92-84	8337	103.05 - 104.27	120
ML-92-84	8339	105.49 - 106.71	1000
ML-92-84	8945	107.93 - 109.15	580
ML-92-84	8946	109.15 - 110.37	270
ML-92-84	8948	111.59 - 112.50	170
ML-92-84	8949	112.50 - 113.11	200
ML-92-84	8341	113.11 - 114.33	160
ML-92-84	8342	114.33 - 115.55	600
ML-92-84	8836	116.77 - 117.99	300
ML-92-84	8344	122.87 - 124.24	2100
ML-92-85	8357	8.80 - 10.10	110
ML-92-85	8358	10.10 - 11.30	190
ML-92-85	8359	14.00 - 15.20	100
ML-92-85	8869	110.06 - 110.98	120
ML-92-85	8874	114.94 - 115.55	300

Multi-element Comparison Plot, DDH ML-92-83



Gold mineralization is dependent on the presence of pyrite, quartz-pyrite and/or quartz veining. Only two samples (8223, 8224) report significant assays from samples without veining.

The results of a multi-element analysis of 61 contiguous intervals from ML-92-83 is presented in Figure 3.1b. This plot graphically compares geology, gold, and several major elements. These data indicate enrichment and depletion of various components within a narrow sericite schist unit (12c). A complete report of the analytical results has been included in Appendix III.

Vein measurements from oriented core (Table 3.1c) are illustrated in Figure 3.1d. Great circles and pole contours for quartz veins and shear zones are represented. Part B (Figure 3.1d) illustrates the vein-shear relationship in space and defines the intersection lineation of the two planes ($260^{\circ}/33^{\circ}$). Quartz veins trend $100^{\circ}/75^{\circ}$ and $068^{\circ}/76^{\circ}$. The shears trend $260^{\circ}/85^{\circ}$ (on section 86+75E).

Table 3.1c: VEIN ORIENTATIONS

<u>HOLE #</u>	<u>SAMPLE</u>	<u>VEIN</u>	<u>GOLD (PPB)</u>	<u>COMMENT</u>
64	59813	064 66	140	quartz vein
64	8450	071 89	120	quartz vein
66	59853	097 85	1400	quartz pyrite vein
		093 60		quartz pyrite vein
		094 67		quartz pyrite vein
		110 80		quartz pyrite vein
66	59855	027 50	120	quartz vein
66	59859	006 46	24830	quartz pyrite vein
66	59864	240 22	1400	quartz pyrite vein
66	59865	145 52	47	quartz vein
67	-	086 47	-	no sample
76	60645	245 85	5	quartz vein within shear zone
76	60647	097 79	350	quartz vein
		260 85		shear trend from section 86+75E

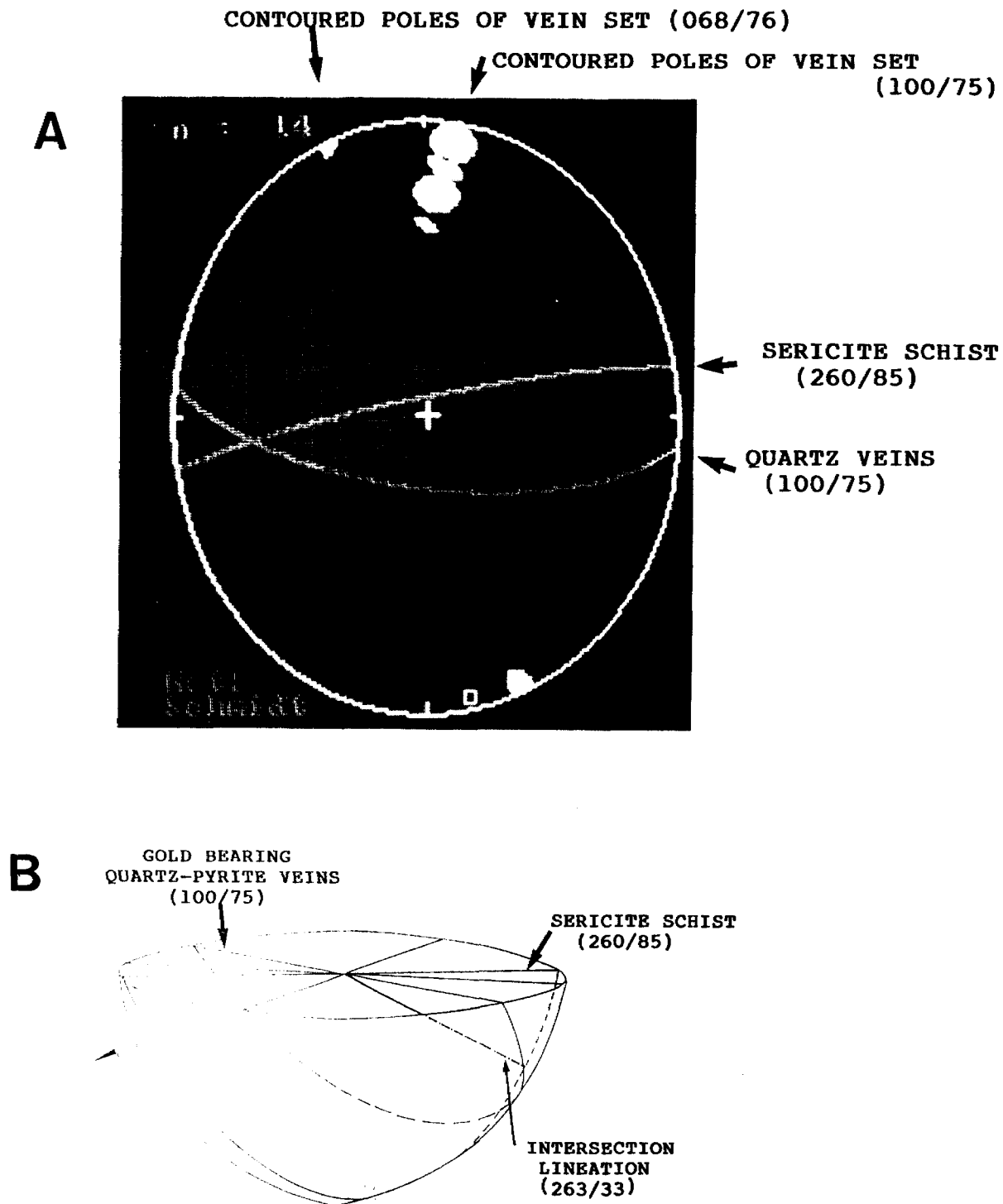


Figure 3.1d: Structural Summary - Shonia #1 Area

DISCUSSION

Previous drill programs, extending back to 1987, have systematically tested the Altered Zone Structure (AZS) north from the contact with the Dobie Lake Batholith. Over its drill-tested length the structure is anomalous with respect to gold. To date the most significant features recognised along the AZS are the two dilation points; the Altered Zone in the vicinity of BL0+00, L0+00N (1987) and the North Flexure (2+00W, L7+25N) (1991). A third significant feature on the McVicar Lake Property is the Shonia Lake #1 gold occurrence (1992).

Lode gold mining occurs approximately 27 kilometres to the southeast at the Golden Patricia Mine (560,000 tons @ 0.55 oz/ton)(MNDM, 1992). The location of this quartz vein deposit is attributable to the development of a splay fault migrating away from the Bearhead Fault Zone (BHFZ). This splay developed as the BHFZ was deflected by the margin of the Meen-Dempster Greenstone Belt (Osmani, I.A., 1989). The AZS is considered by the author to have developed in similar fashion. The BHFZ appears to be refracted away from the Lang Lake Belt in the vicinity of Sor Lake. This does, however, remain unproven due to a concentration of our efforts to the west of Shonia Lake.

Gold also occurs at the margins of late tonalitic intrusives in the Shonia Lake and Sor Lake areas. Exploiting a well established gold-pyrite interdependence Induced Polarization has assisted in the target development at Shonia Lake. Several untested chargeability peaks are recognized in the overburden covered area to the immediate south of the occurrence. Considering the presence of the high grade veins and the AZS each of these peaks deserves our attention.

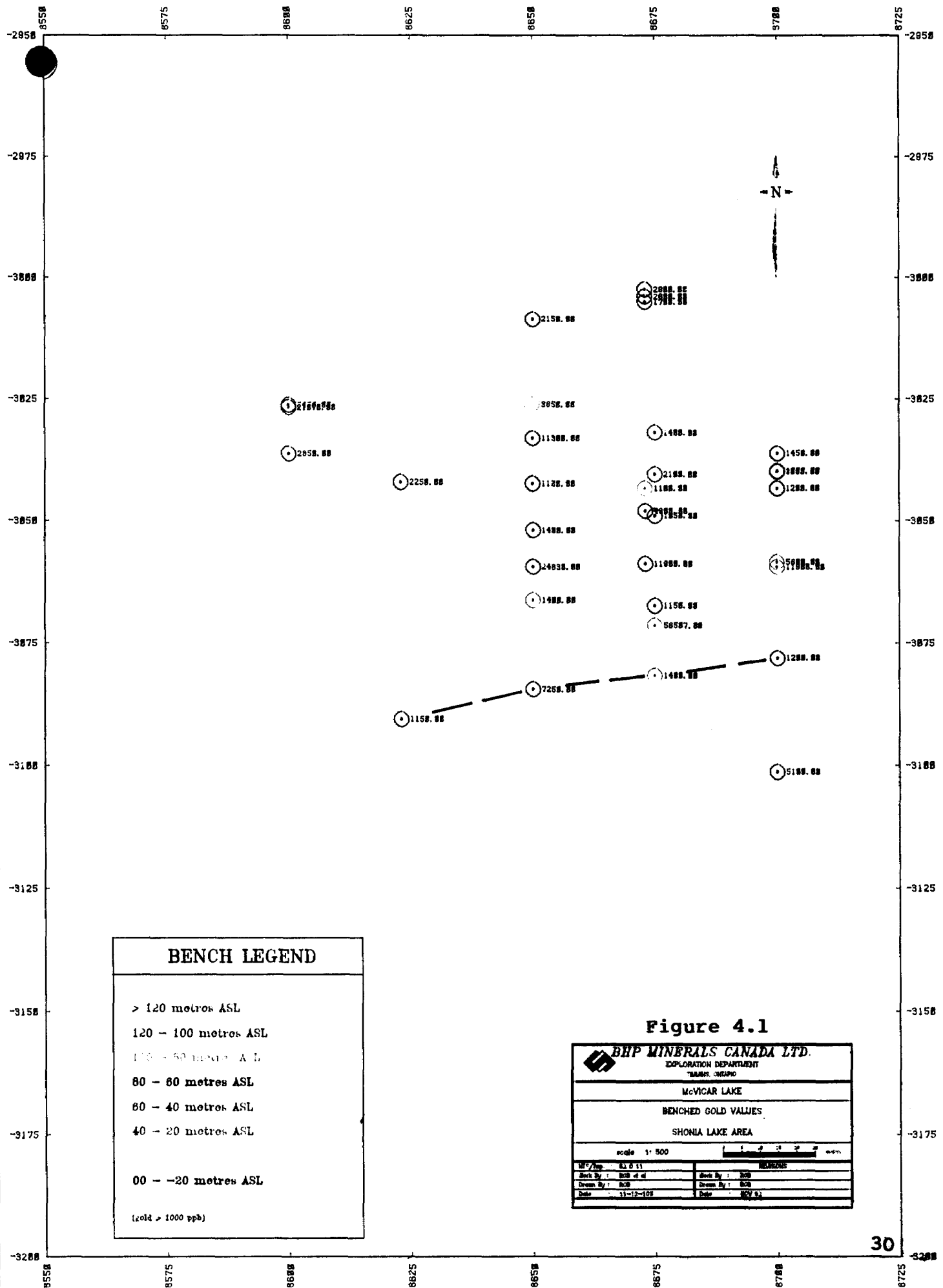
Previously, geological mapping defined a 200 metre quartz vein halo surrounding the Shonia #1 occurrence. Diamond drilling has subsequently defined a smaller high grade quartz vein envelope within this halo. The absence of high grade gold veins on strike to the west of section 86+25E may not be related to the envelope's margin but may in fact be a consequence of a missed plunge. A review of the structural components (veins and shears), measured

on oriented core, supports a "favourable trend" thesis for a quartz vein envelope. The oriented data is presented in Figure 3.1d. The intersection lineation, defined on the Schmidt Net, indicates a shear parallel shallow plunge to the west. Furthermore, Figure 4.1 demonstrates the auriferous vein trend continues in the third dimension. Point clusters of significant intersections from various depths also indicate vein persistence.

The Shonia Lake structural history is further complexed by the presence of a northeast trending chloritic fault. This gold poor, vuggy structure does not appear to offset veins or shears nor have any influence on the gabbro-tonalite contact. At this point it is considered to be a product of a late extension with minor influence on the gold vein distribution.

Just west of the North Flexure the AZS trends under McVicar Lake. The single test hole (ML-92-79) intersected 6.4 metres (true thickness) of moderately altered sericite schist with minor apple green mica. This rapid thinning west of ML-92-78 (22.3 metres of intensely altered material) indicates the intersection of the North Flexure's margin. Therefore, the surface projection outlines an approximate 500 x 25 metre dilation plunging northwest. This geometry mirrors the Altered Zone (AZ) dilation. The NF dilation remains open to depth, however, the structural similarities with the AZ dilation suggest it will pinch out at approximately 250 metres down plunge. Furthermore, like the AZ, sporadic gold values are reported. This is an ill-fated similarity to the Altered Zone dilation.

The May diamond drilling program focused on the North Flexure dilation and an initial investigation of the Shonia #1 gold occurrence. This phase of drilling defined the western edge of the NF and continued an intensive investigation of the Shonia #1 gold occurrence. Systematic drilling at the Shonia #1 intersected high grade extensional quartz-pyrite veins reporting up to 56.5 g/mt gold. The high grade veins are recognised associates of auriferous sericite-pyrite shears. Several mineable grade - mineable width intervals are reported in the eleven Shonia #1 drill holes to date. In addition to the on-going property program, very selective drill targeting at the Shonia #1 occurrence is warranted.



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1991:

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APPENDIX I

DIAMOND DRILL LOGS

Drill Logs for ML-92-64,66,67,76,77 are included for assay sample location. The five drill logs were previously submitted (see Bonner, 1992a).



117M

GROUND ELEV.: 117M

1446

OF E

87400 E.

FEB 5 1992

PA 1180 579

BEARING: 000°

FBI 9, 1992

3

439' (133.8M)

R. G. BONNER

0-15

SECTION	ALTERATION				GEOLOGY	COMMENTS: TARGET IS DIP EXTENSION OF GHONIA #1 VEIN. VEIN SYSTEM INTERSECTED FROM 254' TO 297'. DOWN DIP IS SULPHIDE POOR.	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SERICITE	APPLE GREEN MICA	FRACTURING	MINERAL										
0														
10						0.0' - 35.0' OVERBURDEN CASING REMAINS SAND AND MUD ONLY								
20														
30														
40						35.0' - 44.5' SERICITE ALTERED SCHIST BUFF YELLOW, APHANITIC, MASSIVE TO WELL FOLIATED, SERICITE (70% MODAL), QZ (20%), CHLORITE, SULPHIDE MINOR APPLE GREEN MICA LOCATED WITH INTENSELY SHEARED ZONES, FEW QZ-PY VEINS TO 2 CM THICK MINOR QZ-CARB-PY, CARBONATE, CHLORITE FRACTURE FILLINGS AND COATINGS, FINE IDIOMORPHIC PYRITE UP TO 1% DISSEMINATED, PYRITE UP TO 2MM - UP TO 50MM IN VEINS, VEIN ARE BOTH PARALLEL AND CROSS CUTTING FOLIATION, RARE CHALCOPYRITE		1	39	100		35.5	3.0'	59801
50												38.5	3.0'	59802
												41.5	3.0'	59803
												44.5	3.0'	59804
												43.5	3.0'	59805
												49.0	1.5'	59806
												52.0'	3.0'	59807
												55.0	4.0	59808
												57.0	2.0	59809

HOLE NO. MC 12-67

PROJECT: 1446

PAGE NO: 2 OF 8

CASING COLLAR ELEV.: 117M GROUND ELEV.: 117M

DATE STARTED: FEB 5, 1992

REF. TO CLAIM CORNER:

COORDINATES: N. 87+00 E.

DATE FINISHED: FEB 9, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI- MATED
	HEMATITE	SERICITE	APPLE GREEN	FRACTURING										
60						SHARP								
						INTRUSIVE XENOLITH								
70						SHARP								
80														
90														
100														
110														

DESCRIPTIVE GEOLOGY

44.5' - 49.0' ~~MAFIC DYKE~~
PORPHYRITIC BASALT

DARK GREEN, MASSIVE TO WELL FOLIATED, APHANITIC
WITH UP TO 7% WHITE PHENOCRYSTS (?), PHENO'S
2-3 MM, ELONGATE TO SUBIDIOMORPHIC, WITH
CHLORITIC SHEARS, DOLOMITE REPLACEMENT (?)
PATCHY MAGNETITE, TRACE DISSEMINATED SULPHIDE
SHEARED LOWER CONTACT WITH APPLE GREEN MICA,
SERICITE, QTS URIN AND SULPHIDE

49.0' - 62.8' LATE INTRUSIVE (TONALITE)

GREENISH GREY TO WHITE, MASSIVE, FINE GRAINED,
QUARTZ (80-85% MODAL), SERICITE-CHLORITE (>10%)
MINOR MAGNETITE, TRACE PYRITE BLEBS, OCCASIONAL
FOLIATION, CHLORITIC FRACTURES, PATCHY HEMATITE

SHEARED
MAFIC DYKE
CUT AT 10° TO CA62.8' - 74.8' ~~SHEARED GABBRO~~ SHEARED MAFIC DYKE

DARK GREEN WITH BUFF-WHITE, APHANITIC, SHEARED
CHLORITIC, PATCHY SERICITE, WHITE BAND HAVE
VERY WEAK HCL REACTION - DOLOMITE (?), FEW
HEMATITE FRACTURE COATINGS, FEW CARBONATE FRAC.
TRACE DISSEMINATED SULPHIDE.

74.8' - 247.5' LATE INTRUSIVE (TONALITE)

AS IN 49-62.8'

CASING COLLAR ELEV.: 117 M GROUND ELEV.: 117 M
 COORDINATES: N. 87+00 E.
 INCLINATION: -52° BEARING: 000°

PROJECT: 1446
 DATE STARTED: FEB 5, 1992
 DATE FINISHED: FEB 9, 1992
 TOTAL DEPTH: 439'

PAGE NO: 3 OF 8

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	SERICITE	FE CARB														
120								74.8' - 247.5' LATE INTRUSIVE (TONALITE)								
								CONT...		0.5	100			121	1.8'	59808
130											129			122.8	2.6'	59809
														123.2	4.3	8438
										0.5	100			124.5	3.0	8391
														125.5	2.2	8392
140											139			126.7	1.8'	59810
														127.4	2.9	8393
										0.5	100			128.4	3.0'	59811
150											149			129.4	5.0'	8394
														130.4	2.5'	8439
										0.5	100			131.2	2.8'	8440
160											159			132.3	4.0'	59812
														133.7	4.0'	8441
										0.5	100			134.7	4.0'	8442
170											169			135.7	3.0'	8443
														136.7	2.8'	8444
										0.5	100			137.7	4.8'	59813
											179			138.7	2.7'	8445

74.8' - 247.5' LATE INTRUSIVE (TONALITE)

CONT...

← THIS ZONE IS VERY WHITE, SILICIOUS, SERICITE WITH 4% PYRITE XTALS, 4% CHL BLEBS, MINOR 2-3mm PYRITIC-CHL-FE CARB, INTERVAL HAS 4% FINE SPECKLED FE CARB

↑ VERY WHITE
 VERY SILICIOUS APPEARANCE
 SPECKLED, SHEARED CHLORITE <2%.

↓ TONALITE BECOMES FRACTURED WITH WHITE TO LIGHT ORANGE FE CARB ADD YELLOWISH-GREEN SERICITE MATRIX CHLORITE WITH FRACTURES AND V. XTALS

QTE VEIN

PY-QTE STRINGER
 PY-QTE VEIN

PY-QTE VEIN

QTE-PY VEIN

Pyritic FRACTURES

CHLORITIC FRACTURE WITH COARSE PYRITE INFECTING AT 30° TO CA

P_g-LIMONITE FRACTURES

QTE-PY VEIN
 COARSE PYRITE

QTE VEIN 064/06
 CORE TECH TEST - TRUE DIP = 47°

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED
	CHLORITE	SERPENTINE	FE CARB	VEIN												
180																
								74.8' - 247.5' LATE INTRUSIVE (TONALITE)								
								CONT...		0.1	100			8446	1.7'	8447
														8448	1.3'	8449
														8450	1.4'	8451
														8452	1.5'	8453
														8454	1.6'	8455
														8456	1.7'	8457
														8458	1.8'	8459
														8460	1.9'	8461
														8462	2.0'	8463
														8464	2.1'	8465
														8466	2.2'	8467
														8468	2.3'	8469
														8470	2.4'	8471
														8472	2.5'	8473
														8474	2.6'	8475
														8476	2.7'	8477
														8478	2.8'	8479
														8480	2.9'	8481
														8482	3.0'	8483
														8484	3.1'	8485
														8486	3.2'	8487
														8488	3.3'	8489
														8490	3.4'	8491
														8492	3.5'	8493
														8494	3.6'	8495
														8496	3.7'	8497
														8498	3.8'	8499
														8500	3.9'	8501
														8502	4.0'	8503
														8504	4.1'	8505
														8506	4.2'	8507
														8508	4.3'	8509
														8510	4.4'	8511
														8512	4.5'	8513
														8514	4.6'	8515
														8516	4.7'	8517
														8518	4.8'	8519
														8520	4.9'	8521
														8522	5.0'	8523
														8524	5.1'	8525
														8526	5.2'	8527
														8528	5.3'	8529
														8530	5.4'	8531
														8532	5.5'	8533
														8534	5.6'	8535
														8536	5.7'	8537
														8538	5.8'	8539
														8540	5.9'	8541
														8542	6.0'	8543
														8544	6.1'	8545
														8546	6.2'	8547
														8548	6.3'	8549
														8550	6.4'	8551
														8552	6.5'	8553
														8554	6.6'	8555
														8556	6.7'	8557
														8558	6.8'	8559
														8560	6.9'	8561
														8562	7.0'	8563
														8564	7.1'	8565
														8566	7.2'	8567
														8568	7.3'	8569
														8570	7.4'	8571
														8572	7.5'	8573
														8574	7.6'	8575
														8576	7.7'	8577
														8578	7.8'	8579
														8580	7.9'	8581
														8582	8.0'	8583
														8584	8.1'	8585
														8586	8.2'	8587
														8588	8.3'	8589
														8590	8.4'	8591
														8592	8.5'	8593
														8594	8.6'	8595
														8596	8.7'	8597
														8598	8.8'	8599
														8600	8.9'	8601
														8602	9.0'	8603
														8604	9.1'	8605
														8606	9.2'	8607
														8608	9.3'	8609
														8610	9.4'	8611
														8612	9.5'	8613
														8614	9.6'	8615
														8616	9.7'	8617
														8618	9.8'	8619
														8620	9.9'	8621
														8622	10.0'	8623
														8624	10.1'	8625
														8626	10.2'	8627
														8628	10.3'	8629
														8630	10.4'	8631
														8632	10.5'	8633
														8634	10.6'	8635
														8636	10.7'	8637
														8638	10.8'	8639
														8640	10.9'	8641
														8642	11.0'	8643
														8644	11.1'	8645
														8646	11.2'	8647
														8648	11.3'	8649
														8650	11.4'	8651
														8652	11.5'	8653
														8654	11.6'	8655
														8656	11.7'	8657
														8658	11.8'	8659
														8660	11.9'	8661
														8662	12.0'	8663
														8664	12.1'	8665
														8666	12.2'	8667
														8668	12.3'	8669
														8670	12.4'	8671
														8672	12.5'	8673
														8674	12.6'	8675
														8676	12.7'	8677
														8678	12.8'	8679
														8680	12.9'	8681
														8682	13.0'	8683
														8684	13.1'	8685
														8686	13.2'	8687
														8688	13.3'	8689
														8690	13.4'	8691
														8692	13.5'	8693
														8694	13.6'	8695
														8696	13.7'	8697
														8698	13.8'	8699
														8700	13.9'	8701
														8702	14.0'	8703
														8704	14.1'	8705
														8706	14.2'	8707
														8708	14.3'	8709
														8710	14.4'	8711
														8712	14.5'	8713
														8714	14.6'	8715
														8716	14.7'	8717
														8718	14.8'	8719
														8720	14.9'	8721
														8722	15.0'	8723

HOLE NO. ML-72-64

PROJECT: 1446

PAGE NO: 6 OF 8

CASING COLLAR ELEV.: 117M

GROUND ELEV.: 117M

DATE STARTED: FEB 5, 1992

REF. TO CLAIM CORNER:

COORDINATES:

N. 87400 E.

DATE FINISHED: FEB 9, 1992

SCALE: 1"=10'

INCLINATION: -52°

BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: PG BONNER

SECTION	ALTERATION					COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI- MATED
	SILICIFICATION	SERICITE	APPLE GREEN MICA	FRACTURING	MINERAL VEIN									
300						BROKEN CORE								
310						S ₁ AT 20° TO CA			309	100				
						WHITE ELONGATE PHENO'S → PLAGIOCLASE ?								
						QUARTZ VEINING WITH SERICITE RIBBONS,								
						MINOR APPLE GREEN MICA, TRACE PYRITE			319	100				
320						SHARP								
						MAFIC DYKE								
						1% PY			0.1 to 0.5	100				
						SERICITE PYRITE								
						PATCHY SILICIFICATION								
330						SPECIFIED TONALITE UP TO 10-15% CHLORITE, WHITE MILKY			329					
						SILICIOUS ROCK WITH PATCHY YELLOWISH TO ORANGE FE CARB -								
						QZ FRACTURE FILLING, CHLORITIC FRACTURES			0.1	100				
340						DIP TEST								
						44° TRUE			339					
350									0.1	100				
									349					
									0.1	100				
									359					

CASING COLLAR ELEV.: 1174

GROUND ELEV.: 1174

DATE STARTED: FEB 5, 1992

REF. TO CLAIM CORNER:

COORDINATES:

N. 87+00 E.

DATE FINISHED: FEB 9, 1992

SCALE: 1" = 10'

INCLINATION: -52°

BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: R. G. BONNER

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
420								DESCRIPTIVE GEOLOGY							
								359.3' - 439.0' SHEARED GABBRO		0.1		100			
430								CONT...							
											429				
										0.1		100			
440								DIP TEST 48° TRUE							
								439' END OF HOLE							

HOLE NO. ML-92-66

PROJECT: 1446

PAGE NO: 1 OF 2

CASING COLLAR ELEV.: 117 M

GROUND ELEV.: 117.0 M

DATE STARTED: FEB 13, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S M 86+50 E

DATE FINISHED: FEB 15, 1992

SCALE: 1"=10'

INCLINATION: -47°

BEARING: 000°

TOTAL DEPTH: 339'

LOGGED BY: R.G. BONAVIER

SECTION	ALTERATION				MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORRECTION INTERVAL	CORRECTION INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	FE GR3	SERICITE	CARBONATE	FRACTURING											
0							0.0' - 10.0' OVERBURDEN CASING REMAINS								
10							10.0' - 48.0' TONALITE LIGHT YELLOW TO PINKISH, FINE GRAINED, QUARTZ (80%) SERICITE (15%), MINOR CHLORITE, MAGNETITE, PYRITE K-SPAR, MASSIVE TO WEAKLY FOLIATED, CHLORITIC FRACTURES WITH MINOR PYRITE ASSOCIATED, VERY WEAK CARBONATE AS FRACTURE COATINGS AND FILLINGS, PYRITE PRESENT AS DISSEMINATIONS, FRACTURE ASSOCIATES AND RARE PY-QTZ STRINGER VEINLETS	0.5	19	80		12.0'	3.0'	59851	
20							10.0' - 48.0' TONALITE LIGHT YELLOW TO PINKISH, FINE GRAINED, QUARTZ (80%) SERICITE (15%), MINOR CHLORITE, MAGNETITE, PYRITE K-SPAR, MASSIVE TO WEAKLY FOLIATED, CHLORITIC FRACTURES WITH MINOR PYRITE ASSOCIATED, VERY WEAK CARBONATE AS FRACTURE COATINGS AND FILLINGS, PYRITE PRESENT AS DISSEMINATIONS, FRACTURE ASSOCIATES AND RARE PY-QTZ STRINGER VEINLETS	0.1	29	100		15.0'	2.6'	8469	
30							10.0' - 48.0' TONALITE LIGHT YELLOW TO PINKISH, FINE GRAINED, QUARTZ (80%) SERICITE (15%), MINOR CHLORITE, MAGNETITE, PYRITE K-SPAR, MASSIVE TO WEAKLY FOLIATED, CHLORITIC FRACTURES WITH MINOR PYRITE ASSOCIATED, VERY WEAK CARBONATE AS FRACTURE COATINGS AND FILLINGS, PYRITE PRESENT AS DISSEMINATIONS, FRACTURE ASSOCIATES AND RARE PY-QTZ STRINGER VEINLETS	0.1	49	100		17.0'	2.9'	8470	
40							48.0' - 52.0' RESTIC DYKE OR SHEAR ZONE SERICITE SCHIST LIGHT YELLOW, FINE GRAINED, QUARTZ (70%), SERICITE (25%) MINOR CHLORITE, CARBONATE (2%), PYRITE, WELL FOLIATED, SMALL FAULT NOTED, DISRUPTED QTZ-CARB VEINLET, PYRITE ON FRACTURE-SHEAR PLANES, THIS INTERVAL APPEARS AS ABOVE BUT HAS VERY SHARP CONTACTS AND INCREASED CARB CONTENT	0.1	59	100		20.0'	3.0'	8471	
50							52.0' - 118.7' TONALITE AS IN 10.0 - 48.0, MAFIC DYKES ARE APHANTIC, DARK GREEN, CHLORITIC, WITH WEAK CARBONATE, NO SULPHIDE	0.1		100		22.0'	4.0'	59852	
							52.0' - 118.7' TONALITE AS IN 10.0 - 48.0, MAFIC DYKES ARE APHANTIC, DARK GREEN, CHLORITIC, WITH WEAK CARBONATE, NO SULPHIDE	0.1		100		24.0'	4.0'	8472	
							52.0' - 118.7' TONALITE AS IN 10.0 - 48.0, MAFIC DYKES ARE APHANTIC, DARK GREEN, CHLORITIC, WITH WEAK CARBONATE, NO SULPHIDE	0.1		100		26.0'	3.0'	8473	

HOLE NO. ML-92-66

PROJECT: 1446

PAGE NO: 2 OF 3

CASING COLLAR ELEV.: 117M GROUND ELEV.: 117M

DATE STARTED: FEB 13, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00S N. 86+50 E.

DATE FINISHED: FEB 15, 1992

SCALE: 1" = 10'

INCLINATION: -47° BEARING: 000°

TOTAL DEPTH: 339'

LOGGED BY: R. G. BONNER

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES DRILLING INTERVAL % CORE RECOVERED	SIZE SAMPLE INTERVAL % REC'Y SAMP INT	ESTI- MATED
	SERICITE	CARBONATE	FRACTURING	MINERAL VEIN					
60									
70					FINE CHL-PY FRACTURES ← SERICITE 52.0' - 118.7 TONALITE CONT ...				
80									
90					← SERICITE 7 BULL QZ VEINLET INCREASING CHLORITIC FRACTURE NETWORK (STOCKWORK)				
100									
110					CNT ? CHL-CARB SHEAR 40° TO CA SHARP 118.7' - 124.4' SHEARED GABBRO DARK GREEN, FINE GRAINED, CHLORITE, VERY FINE SIMM WHITISH PHENO'S REACT TO HCL, SHEARING INTENSITY INCREASES TROUGH INTERVAL TO BRECCIA SHARP UPPER, GRADATIONAL LOWER CONTACT, FINE QZ VEINS OFFSET BY CHLORITIC FRACT, NO SULPHIDE				

HOLE NO. ML-92-66

PROJECT: 1446

PAGE NO: 3 OF 6

CASING COLLAR ELEV.: 117M GROUND ELEV.: 117M

DATE STARTED: FEB 13, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00S N 86+50 E

DATE FINISHED: FEB 15, 1992

SCALE: 1"=10'

INCLINATION: -47° BEARING: 000°

TOTAL DEPTH: 339'

LOGGED BY: R.G. BONNIER

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
120								GRADATIONAL		0.1		100				
								118.7' - 124.4' SHEARED GABBRO								
								CONT...								
130								124.4' - 139.1' TONALITE		0.1	129	100				
								AS IN 10.0-48.0								
140								CONTACT 062/88		0.1	139	100				
								TONALITE XENOLITH								
								CONTACT 045/84								
150								CORE TECH 41° TRUE		0.1	149	100				
								139.1' - 146.5' SHEARED GABBRO								
								AS IN 118.7-124.4, SHEARING MORE PRONOUNCED								
								HINT OF CARBONATE								
160								146.5' - 160.5' TONALITE		0.1	159	100				
								AS IN 10.0-48.0								
								160.5' - 167.6' SHEARED GABBRO (?)								
								MAY BE SHEARED TONALITE HOWEVER QUARTZ MATRIX								
								APPEARS LOWER, SERICITE RICH, SMALL (<10cm)								
								QTE-PY VEINS WITH UP TO 10% PY-TRACE CHALCO		0.5	169	100				
								PYRITE ASSOCIATED WITH CHLORITIC FRACTURES								
								IN THE VEIN								
170								167.6' - 251.0' TONALITE		0.5	179	100				
								AS IN 10-48, CHLORITIC FRACTURES COMMON								

HOLE NO. ML-92-66

CASING COLLAR ELEV.: 117M

GROUND ELEV.: 117M

COORDINATES: 31+00S N. 186+50 E.

INCLINATION: -47° BEARING: 000°

PROJECT: 1446

DATE STARTED: FEB 13, 1992

DATE FINISHED: FEB 15, 1992

TOTAL DEPTH: 339'

PAGE NO: 4 OF 6

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	CARBONATE	CHLORITE											
180							CHL FRACTURE 300/85 - SUP LINEA. 300/50		PY			180.3		
							167.6' - 251.0' TONALITE					183.0	2.7	8398
							AS IN 10-48, PATCHY SILICIFICATION WITH FEW		0.5		100	186.0	3.0	59856
							QTZ-PYRITE VEINS, FEW OBSERVATIONS OF					188.0	3.0	59857
190							VERY FINE SILICA VEINLETS CUTTING CHLORITIC			189		188.0	3.0	59857
							FRACTURES, DISSEMINATED AND FRACTURE PYRITE					191.5	4.5	59858
							ACCOMPANYING SILICIFICATION		0.5		100	193.0	3.5	59859
							29.8g/mt over 3.5' is SPECKLED TONALITE WITH			199		200.0	3.6	59860
200							qtz-py vein 2cm thick, INTERVAL IS NORMAL WITH					202.0	3.4	59861
							RESPECT TO PYRITE CONTENT, CHLORITIC-pyritic		0.1		100	204.0		
							FRACTURES INCREASE FROM 185' - 204'							
210							SPECKLED TONALITE (CHL + SIL) WEAK CARB FRACTURE			209		210.0	3.5	8487
							SYSTEM		0.1		100	215.0	4.0	8488
										219		219.0	3.0	8489
220									0.5		100	222.5	3.5	8490
												225.5	3.0	59862
										229		230.1	1.6	59863
230									0.5		100	231.3	1.2	59864
												235.3	4.0	59865
										239		238.2	3.7	59866
												241.1		59867

INCLINATION: -47° BEARING: 000°

PROJECT: 1446

DATE STARTED: FEB 13, 1992

DATE FINISHED: FEB 15, 1992

TOTAL DEPTH: 339'

PAGE NO: 5 OF 6

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: R. G. BONNER

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	ESTIMATED
	SILICIFICATION	CARBONATE	CHLORITE	FRACTURING							
240						QTZ-PY VEIN					
						CHL ↓ Rock DARKENS CONT...	167.6' - 251.0' TONALITE	0.1	249	100	249.1
						P ₂ on CHL FRACTURES					5.0 8399
250						SHARP					249.1
							251.0' - 266.1' MAFIC DYKE	0.1	259	100	251.0
							DARK GREEN, APHANTIC CONTACTS - FINE GRAINED OVERALL, CHLORITIC, <1mm - 5% PLAG PHENO'S → CARB REPLACED; MASSIVE, MODERATE CARB FROM CONTACTS IN, FEW QTZ-CARB VEINLETS, MINOR EPIDOTE WITH VEINLETS, TRACE SULPHIDE				1.9 8400
260						SHARP		0.5	269	100	266.1
							266.1' - 339.0' TONALITE				3.9 59868
270							AS IN 10-48, SPECKLED WITH CHL - SERICITE FADERS IN AND OUT, FADE GRADATIONAL CNTS (HAND SAMPLE) SOME CUT BY CHL-PY FRACTURES, SPECKLED AREAS ARE MORE IGNEOUS TEXTURED - SER MAY ALTER PLAG AND IN PART CHL TO RESULT IN A LIGHTER COLOURED ROCK - CHL IS PROMINATE BY DEFAULT (LOSS OF PLAG	0.5	279	100	275.0
280						QTZ VEIN					5.0 8401
						HAND SAMPLE (CNT)		0.1	289	100	279.9
						QTZ VEIN					4.0 59869
290						PY STRINGERS					5.0 8402
							↓ SILICIOUS (WHITE) LESS CHL, MINOR FRACTURING TO 304'	0.1	289	100	284.0
											5.0 8403
											2.0 59870
											4.0 8404
											3.0 8485
											2.0 8491

HOLE NO. ML-92-66

CASING COLLAR ELEV.: 117M

GROUND ELEV.: 117M

COORDINATES: 314005 N. 186450 E.

INCLINATION: -47°

BEARING: 000°

PROJECT: 1446

DATE STARTED: FEB 13, 1992

DATE FINISHED: FEB 15, 1992

TOTAL DEPTH: 339'

PAGE NO: 6 OF 6

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: R.G. BONNIE

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	SERICITIZATION												
300						FEW CHL-PY FILLINGS (299.7')		P4						
						<u>266.1-339.0' TONALITE</u>								
						K-SPAR ZONE		0.5		100				
310						CONT...			309					
						311.5 THIN SECTION ← PROGRESSIVE ALTERATION		0.1		100				
320						PY FRACTURES			319					
						QZ-PY STRINGER (VEINLET)		0.1		100				
330						K-SPAR ZONE			329					
						QZ-PY VEIN		0.1		100				
340						339' END OF HOLE								

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 1 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122 m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER: PA1180570

COORDINATES: 31+603 N 87400 E

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 369' (112.5 m)

LOGGED BY: CSW

230m

0-150

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITE	SERICITE	CARBONATE													
0								0.0' - 10.0' OVERBURDEN								
10								CASING REMAINS								
20								10.0' - 35.5' TONALITE		0.1	19	100				
30								LIGHT OLIVE GREEN, FINE TO MEDIUM GRAINED WITH VARYING DEGREES OF SERICITE ALTERATION (GENERALLY WEAKLY TO MOD. PERVASIVE TO FRACTURE CONTROLLED), CHLORITE ALTERATION (GENERALLY FRACTURE CONTROLLED), AND SILICIFICATION (GENERALLY MARGINAL TO QUARTZ VEINS TO PATCHY). UNIT. TEND TO BE MODERATELY WELL FRACTURED TO WEAKLY FOLIATED. OCCASIONAL QUARTZ VNLTs PRESENT (<1cm), GENERAL BARREN OF SULPHIDES BUT WITH PATCHY FELDSPAR GRAINS. TRACE TO NIL DISSEMINATED PYRITE THROUGHOUT		0.1	29	100				
40								35.5' - 37.0' MAFIC DIKE			39	100				
50								MEDIUM - DARK GREEN, FINE GRAINED TO PORPHYRITIC (VERY SHARP CONTACTS WITH POSSIBLE CHILLED MARGINS) LIGHT GREEN LAYERS ASSOC. WITH FELDSPAR-QUARTZ VNLTs. TRENDING 11 TO S1 (40° TCA) NO CARBONATE OR SULPHIDES NOTED. UPTO 1% FELDSPAR PHENOS.		0.1	49	100				
								37.0' - 43.5' TONALITE		0.1	59	100				
								AS IN 10.0' - 35.5'								
								43.5' - 48.5' MAFIC DIKE		0.1		100				
								AS IN 35.5' - 37.0'								

SHARP CUNT.
@ 35° TCASHARP
CUNT
@ 35° TCA

S1 @ 40° TCA

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 363'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SILICIFICATION	CALCITE	SERPENTINE	CARBONATE												
60										PY						
70								18.5'-158.5' TONALITE AS IN 10.0'-35.5' BUT TENDS TO BE MORE SERPENTINIC AND MINOR PYRITE SECTIONS		0.1	69	100	BONEW	68.0'	3.0'	59872
80										0.5 TO Z	79	100		72.0'	3.0'	59873
90										0.1	89	100		75.0'	3.0'	59874
100										0.1	99	100		78.0'	3.0'	59875
110										0.1 TO 1	109	100		80.0'	3.0'	59876
										0.1	119	100		90.0'	3.0'	59877
														92.0'	3.0'	59878
														94.0'	3.0'	59879
														96.0'	3.0'	59880
														98.0'	3.0'	59881
														100.0'	3.0'	59882
														102.0'	3.0'	59883
														104.0'	3.0'	59884
														106.0'	3.0'	59885
														108.0'	3.0'	59886
														110.0'	3.0'	59887
														112.0'	3.0'	59888
														114.0'	3.0'	59889
														116.0'	3.0'	59890
														118.0'	3.0'	59891
														120.0'	3.0'	59892

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 314605 N.

87400 E.

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49°

BEARING: 000°

TOTAL DEPTH: 369'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLING INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITE	SERICITE	CARBONATE											
120							MASSIVE 48.5' - 158.5' TONALITE CONT...		0.1	129	100			
130									0.5	139	100	132.0'	3.0'	59878
140									0.1	149	100	139.0'	4.0'	59879
150									0.1	159	100			
160							158.5' - 172.0' MAFIC DIKE AS IN 35.5' - 37.0' BUT WITH 1% 43mm SUBHEDRAL WHITE FELDSPAR PHENOS. VERY SHARP, CHILLED CONTACTS		0.1	169	100			
170							172.0' - 175.0 TONALITE AS IN 10.0' - 35.5'		0.1	179	100			
							175.0' - 177.0' MAFIC DIKE AS IN 35.5' - 37.0'		0.1		100			
							177.0' - 185.5 TONALITE AS IN 10.0' - 35.5'		0.1	179		179.0'		

QZ VN CORETECH
@ 086/47°CORETECH @ 155'
47° TEUWSHARP CNT
@ 10° TEA
CORETECH CNT
@ 178/82°SHARP CNT
CORETECH
@ 145/90°

INCLINATION: -49°

GROUND ELEV.: 122m

87+00 E.

BEARING: 000°

PROJECT: 1441p

DATE STARTED: FEB 15, 1992

DATE FINISHED: FEB 17, 1992

TOTAL DEPTH: 369'

PAGE NO: 4 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CODE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITE	SERICITE	CARBONATE												
180															
							SHARP CNT @ 35' TCA		PY		100				
190							SHARP CNT @ 45' TCA		-						
									-	189					
									-		100				
200									-	199					
									-		100				
210									-	209					
									-		100				
220									0.1	219					
											100				
230									0.1	229					
											100				
										239					

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.: 122m

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+60 S 87+00 E

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 369'

LOGGED BY: CTW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	CHLORITE	SERICITE	CARBONATE												
240							188.0'-250.4' TONALITE								
							CONT...								
						MASSIVE			0.1		100				
250							250.4' - 254.0' MAFIC DIKE		0.1	249					
						SHARP CONTACT @ 45° TCA	AS IN 185.5' - 188.0'		0.1						
							254.0' - 369.0' TONALITE		0.1		100				
						MASSIVE	AS IN 10.0' - 35.5' BUT WITH K-SMALL ALT. FROM 333.0' - 335.5'		0.1	259					
260															
									0.1		100				
270										269					
									0.1		100		271	4	8831
													275	4	8832
280										279			281	4	8833
									0.1		100		283	4	8834
						MASSIVE							287	4	8835
290									0.1	289			291	4	8836
							ALL INTERVAL HAS DISS PY ON CHL FRACTURES AND DISS IN HOST - WEAKLY ELEVATED SULPHIDE %		0.1 0.5		100		293	5.0	8408
													296.0		
										299			299.0	3.0	59881

CORE TECH
@ 47° TRUE

HOLE NO. ML-92-67

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES: 31+60.5 N 87+00 E 122m

INCLINATION: -43° BEARING: 000°

PROJECT: 1446

DATE STARTED: FEB 15, 1992

DATE FINISHED: FEB 17, 1992

TOTAL DEPTH: 369'

PAGE NO: 6 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	K-SPAR	CHLORITE	SEPIOLITE	CARBONATE												
300								DESCRIPTIVE GEOLOGY								
								254.0' - 369.0' TONALITE								
								CONT...								
310										0.1	309	100		309.0	5.0	8409
										0.1		100				
320											319					
										0.1		100				
330											329			329.0	5.0	8410
										0.1		100		331.0	3.0	59083
										0.5		100		334.0	5.0	3411
340											339			339.0		
										0.1		100				
											349					
350												100				
											359					

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 7 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31460 S N 87400 E.

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49°

BEARING: 000°

TOTAL DEPTH: 369'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	CHLORITE	SERICITE	CARBONATE				DESCRIPTIVE GEOLOGY								
360							254.0' - 369.0' TONALITE CONT...		1		100	369			
							END OF HOLE 369'								

INCLINATION. -47°

BEARING: 000

PROJECT: 1446

DATE STARTED: JUNE 9, 1992

DATE FINISHED: JUNE 10, 1992

TOTAL DEPTH: 300' (91.4 m)

PAGE NO: 1 OF 6

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	CHL	QZ	PY												
360							<u>369.0' - 369.2' TONALITE</u> Light grey to light green in color, coarse grained with an average grain size of 2-3 mm. Composition is 75% quartz grains with 25% mafics White carbonate veinlet 1 mm in thickness. Moderate sericite alteration occurs in irregular patches 3-4 mm wide. Trace disseminated pyrite throughout rock. Sharp contact with unit below distinguished by 2-3 mm wide chlorite band 50° to core axis.		Py	ft					
370							sharp contact			369			369.2'	3'	8498
							QZ UM		as		100		372.2	3'	8499
							QZ UM			379			378.2	3'	8500
380							QZ UM						381.2	3'	8901
							CHL FRAC		as		100		389.2	3'	8902
							QZ UM			389			399.2	3'	8903
							sharp contact						409.2	3'	8904
							CHL FRAC		<0.1		100		419.2	3'	8905
400							<u>369.2' - 386.5' SERICITE SCHIST</u> Light green, fine grained, uniform grain size. Sericitic composition. Moderate quartz carbonate stockwork veinlets. Weak chloritic veinlets. Moderate quartz veining with widths up to 5 cm, carbonate in fractures. Moderate pervasive sericite alteration. Microfolding occurs throughout section from 376.0' - 385.5'. Trace disseminated pyrite occurs throughout unit and rarely on fracture surface of quartz / carbonate veinlets. (FE CARB - WEATHERING)			399					
									<0.1		100				
										409					
									<0.1		100				
410										419					

HOLE NO. ML-92-67X

CASING COLLAR ELEV.:

COORDINATES: 31° 60'

INCLINATION: -47°

GROUND ELEV.:

N 87° 00' E

BEARING: 000

PROJECT: 1446

DATE STARTED: JUNE 9, 1992

DATE FINISHED: JUNE 10, 1992

TOTAL DEPTH: 300'

PAGE NO: 2 OF 6

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	CHL FRAC	CARBONATE	SERPENTINE												
420									Py						
							386.5' - 669.0' TONALITE		<0.1		100				
430							As in 369.0' - 369.2'. Moderate iron carbonate veinlets up to 3mm thick. Rare 1mm chlorite bands. Trace disseminated pyrite occurs throughout section as well as in patches throughout some moderate quartz carbonate veins and veinlets.			429					
									<0.1		100				
440							MAFIC DYKE			439					
									<0.1		100		445		
450										449			449	4.0'	8907
							First appearance of quartz pyrite veinlets						453	4.0'	8908
									<0.1		100		457	4.0'	8909
										459			461	4'	8910
									<0.1		100		465	4'	8911
													469	4'	8912
470										469			473	4'	8913
							CHL-QTZ SEAM (VEINS+)		<0.1		100		477	4'	8914
							INCREASING SILICA - PERVASIVE ALT, VEINS WITH FE CARB			479			483	5'	8915

HOLE NO. ML-92-67X

CASING COLLAR ELEV.:

COORDINATES: 31+60

INCLINATION: -47°

GROUND ELEV.:

N 87+00 E

BEARING: 000

PROJECT: 1446

DATE STARTED: JUNE 9, 1992

DATE FINISHED: JUNE 10, 1992

TOTAL DEPTH: 300'

PAGE NO: 3 OF 6

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP INT	ESTI-MATED
480							- PY STRINGER - QTZ-PY VEINLET - QTZ VEINING						482		
							PY-QTZ STRINGER		<1.0	100			486	4'	8910
490										489			490	4'	8912
							QTZ VEIN		<1.0	100			494	4'	8918
500							- QTZ-PY CARB VEINLET			499			502	4'	8919
							QTZ-PY-CARB VEINLET		<1.0	100			506	4'	8921
510							MOTTLED MILKY TONALITE - WITH SERICITE			509			506	3'	8922
									<1.0	100			507		
520							SPECKLED TONALITE - WITH CHLORITE			519			522		
									<1.0	100			529		
530										529			532		
									<1.0	100			537	5.0'	8910
540										539			537		8911
							DIP TEST 45°								
							QPV 1.5-2 cm thick								

HOLE NO. ML-92-67X

CASING COLLAR ELEV.:

COORDINATES: 31+60

INCLINATION: 49°

GROUND ELEV.:

N 87+00 E

BEARING: 000

PROJECT: 1446

DATE STARTED: JUNE 9, 1992

DATE FINISHED: JUNE 10, 1992

TOTAL DEPTH: 300'

PAGE NO: 5 OF 6

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	CARBONATE	SERECITE												
600												600		
								<0.1	100			603	4.0	8025
												606	3.0	8026
												609	3.0	8027
610						moderate QP veining			609			613	4.0	8028
								<0.1	100			617	4.0	8029
620						QPV 8cm wide			619			621	4.0	8030
						Quartz vein 6cm wide		<0.1	100			624	3.0	8031
						QPV 1.5cm wide			629			629	5.0	8032
630												634	5.0	8033
						QPV 2.5cm wide		<0.1	100			639	5.0	8034
640									639			649	5.0	8035
								<0.1	100			659		
650								<0.1	100					

HOLE NO. ML-92-67X

PROJECT: 1446

PAGE NO: 6 OF 6

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 9, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+60

N. 87+00 E.

DATE FINISHED: JUNE 10, 1992

SCALE: 1" = 10'

INCLINATION: -47°

BEARING: 000

TOTAL DEPTH: 300

LOGGED BY: J. PICKSTON

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	CARBONATE	SERECITE												
360														
469						End of hole — 669' DIP TEST 44°		20.1	469	100				

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER: PA1180579

COORDINATES: 30+00 S N. 86+73 E.

DATE FINISHED: MARCH 5, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 399' (121.6m)

LOGGED BY: R.G. BONNE

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTIMATED
	LIMONITE	SILICIFICATION	CARBONATE												
0							0.0' - 10.0' OVERBURDEN CASING REMAINS					30'			
10							10.0' - 147.0' TONALITE					80'			
20							QTB-PY VEIN COPPER PENNY IN CORE BOX - BAD ASSAY		0.5-1		100		11	4.0'	60628
							QTB-PY VEIN (2 CM THICK) 30° TO CA			17			15	4.0'	60629
							QTB-PY VEIN						17	4.0'	60630
							QTB-PY VEIN		0.5-1		100		23	2.9'	60631
							QTB-PY VEINLET 25° TO CA			29			25.9	2.1'	60632
							QTB-PY STRINGER						26	4.0'	60633
							QTB-PY STRINGER		0.5		100		32	4.0'	60634
							CARB-QTB VEIN (VUGY)			39			36	3.0'	60635
							QTB-PY VEINLET		0.1		100		37	5.5'	60636
							QTB-PY VEIN			49			48.5	3.5'	60637
							QTB-PY STRINGER						48	4.0'	60638
50									0.1		100		52	4.0'	60639
										59			57.0	3.0'	8387

↑
INCREASING
QUARTZ
+
PYRITE

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES: 30+005 N. 86+7.3 E.

INCLINATION: -52° BEARING: 180°

PROJECT: 1446

DATE STARTED: MARCH 3, 1992

DATE FINISHED: MARCH 5, 1992

TOTAL DEPTH: 399'

PAGE NO: 2 OF 7

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	SILICIFICATION	CARBONATE												
60						DESCRIPTIVE GEOLOGY								
70						INCREASING CHLORITE ↓ 10.0' - 147.0' TONALITE CONT...		0.1	69	100	80.24			
80						SLIGHT PY INCREASE NEAR DYKE MAFIC DYKE SHARP CHILLED CONTACTS (30° TO CA)		0.1	79	100	77	4.0	8310	
90						PY-CHL FRACTURES		0.5	89	100	83	4.0	60638	
100								0.1	99	100	11	4.0	8324	
110						PY-CHL FRAC. PY-QTZ-CHL FRAC.		0.5	109	100	104	4.0	8310	
						MAFIC DYKE SHARP CHILLED CONTACTS		0.1	109	100	108	4.0	60639	
						QZ-FELDSPAR VEINS			119					

HOLE NO. ML 12-76

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+00S N. 86+73 E.

DATE FINISHED: MARCH 5, 1992

SCALE: 1" = 10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 399'

LOGGED BY: R. G. BONNER

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE	SAMPLE	% REC'Y SAMP. INT.	ESTI- MATED
		CARBONATE													
120							10.0' - 143' TONALITE								
							CONT...		0.5		100			5.0	8417
130							QZ-FELD-PY VEIN WITH CHL-PY FRACTURES			129				2.3	60640
							CHLORITIC - PYRITIC - QUARTZ FRACTURE CONTINUE BUT ARE SCATTERED		0.1		100			5.0	8417
140										139					
									0.1		100				
150							147.0' - 180.1' MAFIC DYKE			149					
							DARK GREEN, APHANITIC WITH UP TO 2% WHITE CARBONATE REPLACED PHENOCRYSTS AND UP TO 2% FINE SUBIDIOMORPHIC MAGNETITE IN PATCHES, MASSIVE, PERVASIVE WEAK TO MODERATE CARBON. CHILLED SHARP CONTACTS, FEW CARBONATE FILLED FRACTURES, NO SULPHIDE		-		100				
160										159					
									1		100				
170										169					
									1		100				
										179					

SHARP 208/82

CORE TECH
52° TRUE

HOLE NO. ML-92-76

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+003 * 86+73 E.

DATE FINISHED: MARCH 5, 1992

SCALE: 1"=10'

INCLINATION: -52

BEARING: 180°

TOTAL DEPTH: 399'

LOGGED BY: R. G. BONNER

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE GAIN	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SILICIFICATION	CARBONATE												
180						SHARP								
						180.1 - 356.8' TONALITE		0.5		100				
						AB IN 10.0 - 147.0'								
150						PY-CHL FRAC		0.1	189	100				
200								0.1	199	100				
210						QTZ VEIN		0.1	209	100				
220								0.1	219	100				
230						MINOR VEIN AND PYRITIC SHEAR AT 70° TO CA		0.1	229	100				
								0.5		100				
									239					

HOLE NO. ML-92-76

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+005 N. 86+73 E.

DATE FINISHED: MARCH 5, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 399'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SILICIFICATION	SERICITE	FRACTURING	MINERAL										
240						180.1' - 356.8' TONALITE								
						CONT...		0.1		100				
250						POPHYRITIC K-SPAR			249				4	8419
						MAFIC XENOLITH		0.5		100		254		
						QTE-PY-PLAG VEINLET							4.0'	60642
260									257			256	3.0	8410
						6" WITH 2% PY		0.1		100		261	3.0	8419
270									267			265	3.0	8420
												272	4.0	8421
								0.1		100		275	3'	8422
280									279			279	4'	8423
						QTE-PY VEIN		0.1		100		282	4'	8424
290						QTE-PY VEINLET			289			289		
								0.1		100		291	4'	8425
						CORE TECH 52° TRUE			299			299	4'	8426

HOLE NO. ML-12-76

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+005M 86+73 E

DATE FINISHED: MARCH 5, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 399'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	SILICIFICATION	CARBONATE	SERICITE												
300		-	-	-	-	-	180.1' - 356.8' TONALITE CONT...		0.1	309	100	300			2968
310	-	-	-	-	-	-	QTE VEIN } RUBBLE		0.1	319	100		4'	9	
320	-	-	-	-	-	-	S ₁ AT 65° TO CA		0.1	329	100		4'	8	
330	-	-	-	-	-	-	S ₁ AT 50° TO CA		0.1	339	100		4'	8	
340	-	-	-	-	-	-	356.8' - 369.6' SERICITE SCHIST BUFF TO GREENISH YELLOW, APHANITIC, SERICITE, SHEARED, WEAK PERVASIVE CARBONATE, STRONG SERICITE IS ALT OF TONALITE - APPROACHING UPPER CONTACT IS A MARKED INCREASE IN SERICITE WITHIN THE TONALITE, AT LEAST TWO QTE VEIN GENERATIONS, THE LAST IS NOT SHEARED, TRACE TO 1% SCATTERED PYRITE		0.1	349	100		4'	8	
350	-	-	-	-	-	-	QTE-PY VEINLET QTE VEINLET		0.1	359	100		4'	8	
	-	-	-	-	-	-	SHARP		0.5		100		56.8		
	-	-	-	-	-	-				359		Y	2.2	60643	

HOLE NO. ML-92-76

PROJECT: 1446

PAGE NO: 7 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+005 N 86+73 E.

DATE FINISHED: MARCH 5, 1992

SCALE: 1" = 10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 399'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES %	DRILLING INTERVAL	% CORE RECOVERED	CORE	SAMPLE	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	CARBONATE	SERICITE												
360							S ₁ AT 078/87						35'		
							LATE QTZ. URIN S ₁ AT 245/85		0.1		100		362	4.0'	60644
							SHARP LATE QTZ URINS AT CONTACT 099/79			369			367	4.0'	60645
370													366	2.6'	60646
									0.1		100		373.6	4.0'	60647
							MAFIC DYKE → CNT AT 269/90						376	24'	8982
380							CORE TECH 52° TRUE			379			377	3'	8990
									0.1		100		380	4'	8990
													381	4'	8990
390										389			382	4'	8990
									0.1		100		383	4'	8990
400							END OF HOLE 399'						384	4'	8990

HOLE NO. ML-92-77

PROJECT: 144L

PAGE NO: 1 OF 4

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR. 5, 1992

REF. TO CLAIM CORNER: PA1180379

COORDINATES: 29+675 N. 86+73 E.

DATE FINISHED: MAR. 6, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 229' (69.8m)

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE RECOVERED	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI- MATED
	RUSTY CARBONATE	CHLORITE	CARBONATE												
0							0.0' - 5.0' OVERBURDEN								
							CASING REMAINS								
10							5.0' - 229.0' TONALITE				100				
							LIGHT TO MEDIUM GREY GREEN, FINE TO MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 65° TCA. MINOR FRACTURE CONTROLLED CHLORITE AND VERY MINOR CARBONATE ALTERATION. UPPER PORTION OF HOLE (60') CONTAINS WEAK TO MODERATE AMOUNT OF FRACTURE CONTROLLED RUSTY BROWN CARBONATE. TRACE DISS. PYRITE. UP TO 1% PYRITE ASSOC. WITH CHLORITE VNLTs. AND PATCHY SALMON PINK (HEMATITE) AREAS. ZONE INTERSECTED @ TOP OF ML-92-76 APPEARS TO BE LOCATED FROM APPROX 213.0' - END OF HOLE (229.0'). UP TO 2-3% MASSIVE PYRITE CONTAINED IN VEINS OF QUARTZ / CARBONATE / FELDSPAR.		0.1	19	100				
20															
30										29					
											100				
40										39					
											100				
50										49					
									0.1		100				
										59					

INCLINATION: -48° BEARING: 180°

PROJECT: 1446

DATE STARTED: MAR 5, 1992

DATE FINISHED: MAR 6, 1992

TOTAL DEPTH: 229'

PAGE NO: 2 OF 4

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJSW

[illegible]

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 5, 1992

REF. TO CLAIM CORNER:

COORDINATES: 29+67.5 N 86+73 E.

DATE FINISHED: MAR 6, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 225'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE GATE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SULFIDED	EARLY CARBONATE	CHLORITE	CARBONATE												
120	///	///	///	///				5.0' - 225.0' TONALITE CONT...						123	4'	8900
											129	100		127	4'	8900
130										0.1		100		127	4'	8900
											139			127	4'	8900
140	///	///	///	///				LT. PINK ALT.						127	4'	8900
											149	100		127	4'	8900
150	///	///	///	///				CORE TECH 45° TRUE		0.1		100		151	4'	8900
											159			153.0	4'	8900
160	///	///	///	///										159.0	4'	60653
											169	100		163.0	4'	60654
170	///	///	///	///				BLEACHED (SERICITE) ALTERED		0.1				171	4'	8900
											179	100		175	4'	9000
								UPPER ZONE OF SERICITE SCHIST (ML BZ ?)						175	4'	8800

CASING COLLAR ELEV.:

GROUND ELEV.:

PROJECT: 1446

PAGE NO: 4 OF 4

COORDINATES:

29+675 N. 86+73 E.

DATE STARTED: MAR. 5, 1992

REF. TO CLAIM CORNER:

INCLINATION: -48°

BEARING: 180°

DATE FINISHED: MAR. 6, 1992

SCALE: 1"=10'

TOTAL DEPTH: 229.0' (69.8m)

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SITE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	RELICIFIED	RUSTY CARBONATE	CHLORITE	CARBONATE												
180																
								5.0' - 229.0' TONALITE								
								BLEACHED								
								CONT...								
190																
								FELD CHLORITIC QUARTZ VEINS								
200																
210																
220																
								ZONE WITH UP TO 2-3% MASSIVE PYRITE ASSOC. WITH QTZ/ CARB/FELD. VEINS @ 15-20% TCA								
								NO TEST								
								END OF HOLE @ 229.0'								

HOLE NO. ML-92-177

CASING COLLAR ELEV.:

COORDINATES: 11100

INCLINATION: 51'

GROUND ELEV.:

N. 4100

BEARING: 180

PROJECT: 1446

DATE STARTED: June 6, 1992

DATE FINISHED: June 8, 1992

TOTAL DEPTH: 419'

PAGE NO: 2 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: S. Sparks

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL FT	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	carbonate	silica												
60														
70														
80														
90														
100														
110														

77.0' - 100.5' Basalt

Dark green, fine grained, uniform grain size, massive except for rare brecciated patches 1 foot long. Moderate pale green to white silica stockwork veinlets. Weak quartz carbonate stockwork veinlets. Rare carbonate alteration in irregular patches 5-7cm wide. Rare 1 foot bands of pale green siliceous matrix breccia. Trace pyrite in quartz-carbonate veinlets.

100.5' - 139.5' Porphyritic Basalt

Dark green to grey, massive, uniform, fine grained matrix, 0.5% randomly distributed and oriented euhedral milky white feldspar phenocrysts, 1-4mm in diameter. Weak carbonate alteration in bands up to 3cm wide. Weakly developed quartz carbonate stockwork veinlets. Weakly developed silica stockwork veinlets. Rare 1mm chloritic bands. Trace pyrite as disseminated crystals in quartz carbonate veinlets and as amorphous coatings on fracture surfaces. Rare pyrrhotite with pyrite.

Silica breccia

gradational contact

HOLE NO. MC-72 19

CASING COLLAR ELEV.:

COORDINATES: 11+00

INCLINATION: 51°

GROUND ELEV.:

N. 4+00

BEARING: 180

PROJECT: 1446

DATE STARTED: June 6, 1991

DATE FINISHED: June 8, 1991

TOTAL DEPTH: 419'

PAGE NO: 3 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: S. Spark

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	carbonate	silica												
120														
130														
140														
150														
160														
170														
180														
190														
200														
210														
220														
230														
240														
250														
260														
270														
280														
290														
300														
310														
320														
330														
340														
350														
360														
370														
380														
390														
400														
410														
419														

139.5' - 154.0' Silicified, brecciated basalt

Dark green to yellowish white. Very fine grained to aphanitic. Grain size changes with alteration intensity. Aphanitic where silica alteration is most intense, very fine grained elsewhere. Intense silica stockwork in upper 2.0' of unit changes gradationally to massive pervasive silica alteration with chlorite rich basalt in fractures. Silica occurs as greenish yellow to purple chert. Rare 2-3cm carbonate veins. Trace pyrite and pyrrhotite on fracture surfaces.

154.0' - 182.0' Basalt

As in 77.0' - 100.5'. Moderate, patchy carbonate alteration in upper 4' of unit. Weak pervasive silica alteration becomes moderate in lower 1.5'. Moderately brecciated with chlorite in fractures in lower silicified 1.5'.

increasing
brecciation
46°

carbonate
breccia

INCLINATION: 51°

GROUND ELEV.:

N. 4.00 E

BEARING: 180

PROJECT: 1446

DATE STARTED: June 6, 1992

DATE FINISHED: June 8, 1992

TOTAL DEPTH: 419'

PAGE NO: 4 OF 7

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: S. Sports

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	Carbonate	Silica												
160						breccia		P _y	Fl					
170						182.0' - 196.0' Silicified basalt Light grey to green, uniform aphanitic grain size, massive, moderately brecciated throughout unit, moderately silicified, weak to moderate silica stockwork veining, chlorite on fracture surfaces, weak chlorite in irregular patches 1x3cm long.		20.1	189.0	60				
200						196.0' - 208.0' Basalt As in 77.0' - 100.5' with no carbonate alteration patches.		20.1	199.0	70				
210						208.0' - 233.0' Carbonate breccia Medium green to grey, fine grained basalt, uniform grain size, weakly brecciated with weathered out rusty carbonate in fractures. Rare quartz veinlets 1-2mm thick.		20.1	209.0	70				
230						233.0' - 239.0' Carbonate breccia with quartz stockwork As in 208.0' - 233.0' with 50% milky stockwork quartz. 0.5% pyrite as disseminated crystals		20.1	219.0	60				
						quartz stockwork in quartz veins		0.5	229.0	80				
									233.0					
									239.0					

INCLINATION: 51°

GROUND ELEV.:

N. 4.00 E

BEARING: 180

PROJECT: 1446

DATE STARTED: June 6, 1992

DATE FINISHED: June 8, 1992

TOTAL DEPTH: 419'

PAGE NO: 5 OF 7

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: S. Sports

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	agm	silica	carbonate												
240															
250							239.0' - 243.0' Carbonate breccia As in 208.0' - 233.0'. Gradational lower contact.		P ₄	FI					
260							243.0' - 319.0' Basalt Medium green, fine grained, massive, uniform grain size. Rare green chloritic veinlets, occasional white silica veinlets. Chloritic and silica veinlets are 1-2mm thick. Rare milky white quartz veins (1-2cm thick) with very weak apple green mica on vein margins.		20.1	65					
270									20.1	70					
280									20.1	70					
290									20.1	65					
									20.1	50					

HOLE NO. 110-92-79

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: June 6, 1992

REF. TO CLAIM CORNER:

COORDINATES: 11+00

N.

4+00

DATE FINISHED: June 8, 1992

SCALE: 1"=10'

INCLINATION: 51°

BEARING: 180

TOTAL DEPTH: 419'

LOGGED BY: S. Sparks

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI- MATED
300																
310								319.0' - 338.7' Brecciated basalt Medium green to grey, very fine grained, massive. Moderately well brecciated throughout unit. Very soft. Weakly sericite altered breccia fragments. Fractures are chloritic. Weak patchy pink to red hematite stain.		<0.1		50				
320											309.0					
										40.1		30				
											319.0					
330								338.7' - 354.0' Basalt As in 263.0' - 319.0'. Sections less than 1 foot long are very weakly sheared. Very rare brecciated sections less than 1/2 foot long. Rare hematite staining on fracture surfaces. Brecciated sections show weak sericite alteration.		<0.1		70				
											329.0					
										40.1		60				
340								354.0' - 368.0' Interbedded ironstone and chloritic mudstone Dark green and black-purple. Very fine grained. Alternating beds of chloritic mudstone and ironstone. Mudstone beds are 1-1.5cm thick; ironstone beds are 3cm thick. Ironstone beds have up to 50% quartz veins. Minor pyrite as disseminated crystals in chloritic mudstone. Ironstone is strongly magnetic.		<0.1		70				
											339.0					
											371.0					
350										<0.1		50				
											359.0					

INCLINATION: 51°

GROUND ELEV.:

N. 4.00 $\frac{1}{2}$

BEARING: 180

PROJECT: 1446

DATE STARTED: June 6, 1992

DATE FINISHED: June 8, 1992

TOTAL DEPTH: 419'

PAGE NO: 7 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: S. Sparks

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	quartz	sericite	carbonate	silica												
360																
310								368.0' - 384.0' Sheared basalt		0.5		40				
								Medium green, fine to medium grained, uniform grain size, moderately schistose at 60' to core axis, weakly brecciated in upper 1.0 ft of unit.			369.0			368.0	5.0	8001
								Weakly silica altered in brecciated zone. Moderate quartz carbonate veining, veins less than 1cm thick.		0.1		40		370	5.0	8002
380								Trace disseminated limonite staining smeared parallel to shearing. Up to 60% pyrite in fractures and vugs in upper 1.0 ft brecciated section of unit.			379.0			378.0	5.0	8003
										0.1		50		379.0	5.0	8004
390											389.0			389.0	5.0	8005
														391.0	2.0	8006
400								384.0' - 391.0' Sericite schist		0.1		70				
								Pale green to yellow, fine grained, intensely schistose. Composition is 90% sericite and quartz. Moderate pervasive sericite alteration. Occasional milky white to smoky quartz veins up to 3cm wide. Rare brown carbonate veins up to 4cm thick. All vein occur parallel to schistosity. 0.5% hematite stains smeared parallel to schistosity. Very rare apple green mica, moderate chlorite in association with quartz veins.			399.0					
										0.1		90				
410											409.0					
										0.1		100				
											419.0					

INCLINATION: -45° BEARING: 000°

GROUND ELEV.: _____

PROJECT: McVICAR

DATE STARTED: JUNE 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644' (196.3m)

PAGE NO: 1 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

[illegible]

HOLE NO. ML-92-80

PROJECT: M.L.VICAR

PAGE NO: 2 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE , 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+27.5 N 86+50 E.

DATE FINISHED: JUNE 13, 1992

SCALE: 1"=10'

INCLINATION: -45°

BEARING: 000°

TOTAL DEPTH: 644'

LOGGED BY: LSW

SECTION	ALTERATION				MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CLAY	K-FELD	CHLORITE	CARBONATE (FE)											
60					QTZ		25.0' - 143.4' TONALITE CONT...		PY				60.0'	4.0'	8039
									0.5		100		64.0'	4.0'	8040
70										69			68.0'		
											100				
80							QTZ-FE CARB VN PY			73			73.0'	4.0'	8041
							QT-FE CARB VN		0.5 TO 1		100		83.0'	4.0'	8042
										89			87.0'		
90													91.0'	4.0'	8043
									1 TO 0.1		100				
100							QTZ VN			99					
									1 TO 0.1		100				
110										109			108.0'		
									0.5 TO 1		100		112.0'	4.0'	8044
							SEVERAL NARROW QTZ-FE CARB 4-7 PY VNS						115.5'	3.5'	8045
										119			119.0'	3.5'	8046

HOLE NO. ML-92-80

PROJECT: McVICAR

PAGE NO: 3 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+27 S N. 86+30 E.

DATE FINISHED: JUNE 13, 1992

SCALE: 1"=10'

INCLINATION: -45°

BEARING: 000°

TOTAL DEPTH: 644.0'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	GREEN MICA	SILICA	CHLORITE	CARBONATE (FE)												
120								QTL VN RTZ VN		0.1 To 1			113.0'			
								SHEARED SERPENTINE TUFF? QTL-FE CARB				100			4.0'	8047
								QTL-FE CARB							3.0'	8048
130											129				4.0'	8049
										0.1 To 1					4.0'	8050
												90			5.0' (4.0')	8051
140								MAFIC DIKE		1 To 0.1						
								SHARP CNT @ 30° TCA				100				
								MAFIC DIKE		1						
150								SHARP CNT @ 65° TCA — DIP TEST @ 35° TCA								
								MAJOR K-SPAR + MT.		0.21 To 0.1						
												100				
160										0.1 To 0.5					4.0'	8053
								QTL-FE CARB VN				100			3.5'	8819
170								QTL-FE CARB L.P.Y. (NO CHL)							4'	8820
										0.1 To 0.1					4'	8821
												100			3'	8822

25.0' - 143.4' TONALITE

CONT...

143.4' - 149.0' MAFIC DIKE

DARK GREY GREEN, FINE GRAINED, <1mm, +3% PLAG. PHENO'S.

WEAKLY FOLIATED @ 30° TCA. WEAK TO MOD. PERVASIVE

CARBONATE THROUGHOUT, FEW QTL-CARB VNLT'S, NO SULPHIDE
NOTED.

149.0' - 183.0 TONALITE

AS IN 25.0' - 143.4'

HOLE NO: ML-92-80

CASING COLLAR ELEV.:

COORDINATES: 34275 N. 86+50 E.

INCLINATION: -450 BEARING: 000°

PROJECT: McVILAR

DATE STARTED: JUNE 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644.0'

PAGE NO: 4 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SERICITE	SILICA	CHLORITE	CARBONATE (FE)												
180								QTZ-FE CARB VN SHARP CNT @ 35° TCA SHARP CNT @ 40° TCA QTZ-FE CARB VN TONALITE QTZ-PY FINE PY AT CNTS TRACE CHALCOPHYRITE TWO VEINLETS RESPONSIBLE FOR HIGH GOLD - MINOR DISS PY AND SER. ALTERATION V.G. (HAND SAMPLE) QTZ-FE CARB VN GRAPHITE SHEAR FE CARB-QTZ VN PY (50%) QTZ VN (7MM WIDE) SHEARED TUFF QTZ-FE CARB VN S. INCREASE CHLORITE FRACTURES SHEARING INCREASE	149.0'-183.0' TONALITE CONT... 183.0-186.0 SERICITE SCHIST. SHEARED DYKE ? (NO QTR EYES) LIGHT GREEN- GREY, FINE GRAINED, SERICITIC (50%), PERVASIVE STRONG CARBONATE, WELL FOLIATED @ 40° TCA NO SULPHIDES NOTED. SAME AS FROM 48.0'-52.0' IN ML-92-66 186.0-192.3' TONALITE AS IN 25.0'-143.4' 192.3-198.5 'SERICITE SCHIST' (SHEARED TONALITE) AS IN 183.0-186.0 BUT WITH 41MM QTZ ? EYES MINOR PYRITE ON FRACTURE-SHEAR PLANES 198.5'-240.5' TONALITE AS IN 25.0'-143.4' BUT WITH MUCH MORE PERVASIVE SILICA, SERICITE, AND FRACTURE CONTROLLED CHLORITE. ROCK IS LIGHT OLIVE GREEN, TRACE PYRITE UNIT IS MOD. SHEARED @ 30-35° TCA	74 0.1 TO 0.5 1 0.5 - - 0.1 0.1 0.1 TO 2 TO 0.1	100 100 189 100 199 100 209 100 219 100 229 100	24 189 189 189 203 209 219 229 239	180.0 183.0 184.5 186.0 189.0 192.3 195.2 196.5 198.5 203 209.2 211.0 213.0 219.0 223.0 227.0 230.0	3.0' 1.3' 1.7' 3' 3.3' 2.9' 1.3' 2.0' 4.5' 4.2' 3.8' 4.0' 4.0' 4.0' 4.0' 3.0'	8054 8811 8812 8828 8813 8814 8815 8055 8816 8817 8818 8056 8057 8058 8059 8060	

HOLE NO. ML-92-80

CASING COLLAR ELEV.:

COORDINATES: 31+27.5 N. 86+50 E.

INCLINATION: -45° BEARING: 000°

PROJECT: McVILAR

DATE STARTED: JUNE 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644.0'

PAGE NO: 5 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: GJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SEPIOLITE	SILICA	CHLORITE	CARBONATE (FE)												
240								SHEARED LNT		0.1			86m	249.5		
								SHARP CNT @ 30° TCA QTL-FE CARB VNS		1 TO 0.1		100		247.0	2.5'	8061
250								QTL-FE CARB VNS SHARP CNT SHARP CNT		0.1 TO 0.5	249			250.0	3.0'	8062
								BROKEN CNT TONALITE XENOLITHS IRREGULAR LNT				100		251.3	1.5'	8063
260								SHARP CNT @ 20° TCA						255.5	4.0'	8064
								TONALITE		1 TO 0.1		100		268.0		
270								SHARP CNT @ 30° TCA		0.1 TO 1	269			269.0	2.0'	8065
								QTL-FE CARB VNS MIN PY				100		274.0	3.3'	8066
280								BROKEN CNT		0.1 TO 0.5	279			278.0	4.0'	8067
								QTL-FE CARB VNS		0.1 TO 1		90		283.2	5.2' (4.2')	8068
290								QTL-FE CARB VNS QTL-FE CARB VNS QTL-FE CARB VNS IRREGULAR CNT			289			286.0	2.8'	8069
								QTL-FE CARB VNS				100		288.0	2.0'	8070
								QTL-FE CARB VNS		0.1 TO 0.5				291.0	3.0'	8071
								QTL-FE CARB VNS						295.0	4.0'	8072
								QTL-FE CARB VNS			299			299.0	4.0'	8073
								QTL-FE CARB VNS								

DP TEST @ 299' 38"

QTL-FE CARB VNS
SHEARED ALTERED GABBRO198.5'-240.5' TONALITE

CONT...

240.5'-244.5' SHEARED GABBRO/DIKEDARK GREY, FINE GRAINED, MOD. SHEARED @ 30° TCA
WEAK CARBONATE FRACTURES, TRACE PYRITE244.5'-250.0' TONALITEAS IN 198.5'-240.5' BUT WITH MOD. AMOUNT (1-3%) 1MM RED
HEMATITE SPOTS250.0'-251.5' SHEARED GABBRO/DIKE

SAME AS FROM 118.7'-124.4' IN ML-92-66

251.5'-255.5' TONALITE

AS IN 244.5'-250.0'

255.5'-258.0' SHEARED GABBRO/DIKEDARK GREEN, FINE GRAINED, CONTAINS TONALITE XENOLITHS
SAME AS FROM 139.1'-146.5' IN ML-92-66258.0'-262.0' TONALITE

AS IN 244.5'-250.0'

262.0'-270.7' SHEARED GABBRO/DIKE

AS IN 240.5'-244.5'

270.7'-278.0' TONALITE

AS IN 244.5'-250.0'

278.0'-291.0' SHEARED ALTERED GABBRO

MEDIUM GREY-GREEN, FINE TO MEDIUM GRAINED, WELL

FOLIATED TO SHEARED @ 35-40° TCA. WEAK TO STRONG
PERVASIVE AND VEINED CARBONATE, MOD. 4CM QTL VNS

HOLE NO. ML-92-80

CASING COLLAR ELEV.:

COORDINATES: 34275 N 86+50 E.

INCLINATION: -45° BEARING: 000°

PROJECT: McVicar

DATE STARTED: JUNE 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644.0'

PAGE NO: 6 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SERICITE	SILICA	CHLORITE	CARBONATE(Fe)												
300								QTZ-FE CARB VNS		0.1 TO 1				305	4.5'	8074
								QTZ-FE CARB PYRITE VN				100		310	3.5'	8075
								QTZ-FE CARB VNS						315	3.0'	8076
310								QTZ-FE CARB VNS		0.1 TO 0.5				320	3.0'	8077
								SHARP CNT @ 20° TCA						325	4.5'	8078
								QTZ-FE CARB VNS				100		330	3.5'	8079
								IRREGULAR CNT		0.1				335	4.0'	8080
320								CHLORITE-QTZ-PY VN (1cm wide)		0.1				340	4.0'	8081
								QTZ-FE CARB VNS				100		345	4.0'	8082
330								QTZ-FE CARB VNS		0.1 TO 1				350	4.0'	8083
								QTZ-CARB(Fe) PY VN						355	4.0'	8084
								QTZ-FE CARB PY VN						360	4.0'	8085
340								QTZ-FE CARB VNS						365	3.0'	8086
								QTZ-FE CARB PY VNS		0.5 TO 1				370	3.3'	8087
350								SHARP CNT @ 20° TCA								

DESCRIPTIVE GEOLOGY

278.0' - 291.0' SHEARED ALTERED GABBRO CONT...

WITH ASSOC. FE-CARB. MINOR, BUT NOTICEABLE AMOUNTS OF DISS. GREEN MICA ALTERATION @ 286.5' 7-10 mm (TRUE WIDTH) QTZ VN WITH 20-40% PYRITE

291.0' - 313.0' TONALITE

AS IN 198.5' TO 240.5' WITH NUMEROUS SMALL (1cm) QTZ-FE CARBONATE VEINS WITH MINOR PYRITE.

313.0' - 317.5' SHEARED ALTERED GABBRO

AS IN 278.0' - 291.0' BUT WITH MORE EXTENSIONAL QTZ-FE CARBONATE VEINS UP TO 2cm WIDE. MINOR GREEN MICA, NO SULPHIDES NOTED SHEARED @ 20° TCA

317.5' - 351.3' TONALITE

AS IN 25.0' - 143.4' BUT WITH MORE FRACTURE RELATED CHLORITE AND ASSOC. PYRITE

351.3' - 367.0' MAFIC DIKE

AS IN 143.4' - 149.0' WITH SEVERAL MM TO CM SCALE CALCITE VEINS AND FRACTURES. NO SULPHIDES

HOLE NO. ML-92-80

CASING COLLAR ELEV.:

COORDINATES: 314275 N 86+50 E.

INCLINATION: -45° BEARING: 000°

PROJECT: McVicar

DATE STARTED: JUNE , 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644.0

PAGE NO: 7 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	K-SPAR	SILICA	CHLORITE	CARBONATE(FC)												
360																
								351.3' - 367.0' MAGIC DIKE								
								CONT...								
								367.0' - 415.0' TONALITE								
370								AS IN 25.0' - 143.4' BUT WITH MINOR DISSEMINATED			369			367.0	4.0'	8088
								AN CHLORITE FRACTURE ASSOC. PYRITE. UNIT HAS		0.1				371.0	4.0'	8089
								MOD. K-SPAR AND MINOR HEMATITE FRACTURES		0.1 TO 1		100		375.0	4.0'	8090
380								ALSO MINOR TO MOD FRACTURE ASSOC. CARB						379.0	4.0'	8091
								415.0' - 419.0' GABBRO			379			383.0	4.0'	8092
								MEDIUM GREEN, MEDIUM GRAINED, WEAKLY FOLIATED		0.1 TO 1		100		387.0	4.0'	8093
390								@ 35° TCA. MAY SIMPLY BE A SEPERATE PHASE OF						391.0	4.0'	8094
								TONALITE. TRACE PYRITE.			389			395.0	4.0'	8095
								419.0' - 519.0' TONALITE		0.1 TO 1		100		399.0	3.0'	8096
								AS IN 25.0' - 143.4' BUT WITH MOD AMOUNTS OF						403.0	4.0'	8097
400								DISS. AND BLEBBY PYRITE AND ASSOC WITH			399			407.0	2.5'	8098
								CHLORITE AND QUARTZ VNS. AND VNLTs. (UP TO 1-2%)		0.1 TO 0.5		100		411.0	3.5'	8099
														415.0	3.5'	8100
410										12.5				419.0		

SHARP CUT @ 35° TCA

QTL VNS

QTL-PY VNS

IRREGULAR CUT

INCLINATION: -45° BEARING: 000°

PROJECT: MeVicar

DATE STARTED: JUNE 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644.0'

PAGE NO: 8 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJSW

[illegible]

HOLE NO. ML-92-80

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES: 31+27 S N 86+50 E

INCLINATION: -45°

BEARING: 000°

PROJECT: McVICAR

DATE STARTED: JUNE 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644.0'

PAGE NO: 9 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SERICITE	SILICA	CHLORITE	CARBONATE (CE)												
480								419.0' - 519.0' TONALITE								
								CONT...		0.1 To 0.5		100		486.0	4.0'	8109
490											489					
								QTZ PY VN.		0.1 To 0.5		100		496.0	4.0'	8110
								QTZ-PECARB PY VNS								
500								QTZ-CHL PY VN			499			500.0	4.0'	8111
								QTZ VNS		0.5 To 1		100		504.0	4.0'	8112
								PYVN (Lm)						508.0	4.0'	8113
510								PY VNS (3mm)		0.5 To 1		100		512.0	4.0'	8114
								QTZ-CHL PY VN						516.0	4.0'	8115
520								GABBRO			519			519.0	3.0'	8116
								519.0' - 521.0' GABBRO								
								AS IN 419.0' - 419.0'								
								521.0' - 644.0' TONALITE		0.1		90				
								AS IN 419.0' - 519.0'. MOD. TO STRONG ANKERITE?								
								ASSOC. WITH QTZ VNS. AFTER 600'								
530											529					
								QTZ-PECARB VN		0.1 To 0.5		100		535	4.0'	8829
								QTZ-SPHALERITE (0.5%) VN								
								PY-CHL VN (Lm)						532.0	4.0'	8830
											539					

↑
K-SPAR
↓

INCLINATION: -45° BEARING: 000°

PROJECT: McVICAR

DATE STARTED: JUNE 1992

DATE FINISHED: JUNE 13, 1992

TOTAL DEPTH: 644.0'

PAGE NO: 10 OF 11

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	SERICITE	SILICA	CHLORITE	CARBONATE (FE)												
540								QTZ-CHL PY VN (20%) QTZ-FECARB PY VN QTZ-FECARB VN PY-QTZ VN ← ONLY ZONE WITH GOLD POTENTIAL - 1CM VEINLET IN SERICITE TONALITE NO CHL ASSOCIATION - VEIN AT 80° TO CA CONT...								
550										0.1 TO 0.5	549	100	80W	543.0	4.0'	8117
														547.0	4.0'	8118
														551.0	4.0'	8119
										0.1 TO 0.5		100		555.0	4.0'	8120
														555.5	0.5'	8121
														559.0	3.5'	8122
560											559					
										0.5 TO 1		100		565.0		
														569.0	4.0'	8123
570											569					
										0.5 TO 1		100		573.0	4.0'	8124
														577.0	4.0'	8125
														581.0	4.0'	8126
580										0.1 TO 0.5		100		583.0	2.0'	8127
														587.0	4.0'	8128
														589.0	2.0'	8129
										0.1 TO 0.5		100		592.0	3.0'	8826
590														595.0	3.0'	8827
														599.0	4.0'	8130

HOLE NO. ML-92-80

PROJECT: McVicar

PAGE NO: 11 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 1992

REF. TO CLAIM CORNER:

COORDINATES 314275 N 86+50 E

DATE FINISHED: JUNE 13, 1992

SCALE: 1"=10'

INCLINATION: -45°

BEARING: 600°

TOTAL DEPTH: 644.0'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	ANKERITE ?	SILICA	CHLORITE	CARBONATE (FE)												
600								521.6' - 644.0' TONALITE		0.1 TO 1	609	100		603.6'	4.0'	8131
								CONT...						604.6'	3.0'	8132
610										0.5 TO 1	619	100		612.6'	3.0'	8133
														615.6'	4.0'	8134
620								QTL-CARB-ANKERITE PY VNS			619			619.6'	4.0'	8135
										0.1 TO 1	629	100		623.6'	4.0'	8136
								QTL-FCARB VNS						627.6'	4.0'	8137
630								QTLVNS			629			631.0'	4.0'	8138
										0.1 TO 0.5	639	100		635.0'	4.0'	8139
								QTL-FCARB PY VN (7-10%)						638.0'	3.0'	8139
640								QTL-FCARB VN		0.1	639	100				
								QTL VN								
								DIP TEST 35°								
								END OF HOLE @ 644'								

HOLE NO. ML-92-B1

PROJECT: McVicar

PAGE NO: 1 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 14, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31403 S N. 86+23 E.

DATE FINISHED: JUNE 16, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 409' (124.7 m)

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	SERICITE	SILICA	CHLORITE	CARBONATE												
0								0.0'-7.0' OVERBURDEN								
								CASING REMAINS								
10								7.0'-126.5' TONALITE								
								LIGHT TO MED. OLIVE GREEN TO PINK, MED. GRAINED QUARTZ (70%), MAFICS (15%), SERICITE (15%), MINOR CHLORITIC FRACTURES, QTZ-CARB (FE?) VNS, VNLS AND SPOTTY K-SPAR ALTERATION (QTZ-CARB VN <1cm). UNIT IS MASSIVE TO WEAKLY FOLIATED @ 45° TCA. PYRITE PRESENT AS 1-2mm DISS. GRAINS AS WELL AS WITH QTZ-CARB VNS.								
20								K-SPAR								
								EXFOLIATED TONALITE SER-CHL								
								MAFIC DIKE								
30								QTZ-FCAPS PY VNS								
								QTZ-PY (LY.) VN								
40								QTZ-FCAPS CHL PY (LY.)								
								QTZ-FCAPS CHL VN								
50								K-SPAR								
								QTZ-FCAPS								

HOLE NO. ML-92-B1

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES: 31+03.5 N 86+23 E.

INCLINATION: -50°

BEARING: 000°

PROJECT: M. V. CAR

DATE STARTED: JUNE 14, 1992

DATE FINISHED: JUNE 16, 1992

TOTAL DEPTH: 409'

PAGE NO. 2 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSJW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SERICITE	SILICA	CHLORINE												
60							7.0'-126.5' TONALITE CONT...								
							QTZ-FE CARB VNS		0.5 TO 1		100		62.0'	4.0'	8144
70							QTZ-FE CARB- PY VNS (15%) K-SPAN			69			66.0'	4.0'	8145
							QTZ-FE CARB (ANKERITE)		1 TO 0.1		100		70.0'	4.5'	8846
80							QTZ-FE CARB- CHL-PY VNS (15%)			79			74.2'	4.5'	8847
							QTZ-FE CARB- CHL-PY VNS (15%)		0.5 TO 1		100		78.0'	4.0'	8146
90							QTZ-PY VNS (50%)			89			83.0'	4.0'	8147
							QTZ-FE CARB- CHL-PY (80%) VNLTS		0.5 TO 1		100		85.0'	2.0'	8148
100							QTZ-FE CARB- CHL-PY (10%) VNLTS		0.5 TO 1		100		93.0'	4.0'	8149
							QTZ-FE CARB PY VNS (10%)			99			97.0'	4.0'	8150
110							QTZ-PY VNS (2%)		0.5 TO 1		100		101.0'	4.0'	8151
							QTZ-FE CARB PY VNS (15%)			109			105.0'	4.0'	8152
							QTZ-FE CARB PY VNS (15%)		0.5		100		109.0'	4.0'	8153
							QTZ-FE CARB PY VNS (15%)			119			115.0'	4.0'	8154
							QTZ-FE CARB PY VNS (15%)						119.0'	2.0'	8155

HOLE NO. ML-92-81

PROJECT: McVicar

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 14, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+03 S N 86+23 E.

DATE FINISHED: JUNE 16, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 409'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	150-155	155-160	160-165	165-170												
180								174.5'-185.0' GABBRO								
								CONT...								
190								185.0'-270.0' TONALITE		0.1	189					
								AS IN 7.0'-126.5' WITH MORE CHLORITE FRACTURES.								
200										0.1	199					
										0.5						
210											209					
220										0.1	219					
230											229					
											239					

HOLE NO. ML-92-81

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES: 314035 N 86423 E.

INCLINATION: -50°

BEARING: 000°

PROJECT: McVicar

DATE STARTED: JUNE 14, 1992

DATE FINISHED: JUNE 16, 1992

TOTAL DEPTH: 409'

PAGE NO: 5 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJS

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SERISITE	SILICA	CHLORITE	CARBONATE												
240								185.0' - 270.0' TONALITE CONT...		70 0.1	249	100	11.64W	53.0		
250								K-SPAR ↓		0.1		100		50.0	3.0'	8170
260								QTZ VN			259	100		50.0	3.0'	8171
								QTZ-FECAL		93.1 0.1		100		50.0	3.0'	8172
270								MAFIC DIKE K-SPAR ↓ SHARP CNT @ 50° TCA		1	269	100				
280								270.0' - 287.0' MAFIC DIKE DARK GREEN, FINE GRAINED, 2mm PLAG? PHENO (1-3%), WEAKLY FOLIATED @ 45° TCA, WEAK TO MOD. PERVASIVE CARBONATE, MINOR CARBONATE VNLS. NO SULPHIDES NOTED.		1	279	100				
290								287.0' - 304.0' TONALITE AS IN 185.0' - 270.0', BECOMING PROGRESSIVELY MORE FRACTURED. APPEARANCE OF RED + BROWN HEMATITE FILLED FRACTURES.		0.1 70 0.5	289	100		50.0	4.0'	8173
								SHARP CNT @ 45° TCA QTZ-PY VN (3%) QTZ-CHL PY VN (10%) HEMATITE KSPAR DIP TEST 48°			299	100		50.0	3.0'	8175

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 409'

LOGGED BY: CSW

[illegible]

HOLE NO. ML-92-82

CASING COLLAR ELEV.:

COORDINATES: 31+00 S N 86+00 E.

INCLINATION: -50°

GROUND ELEV.:

BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 16, 1992

DATE FINISHED: JUNE 17, 1992

TOTAL DEPTH: 399' (121.6m)

PAGE NO: 1 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	APPLE GREEN MICA	SERICITE	CHLORITE	CARBONATE										
0						0.0'-6.0' OVERBURDEN CASINO RE MAINS					2			
10						6.0'-15.4' TONALITE MEDIUM GREY-GREEN, MED. GRAINED, QTZ (10%) MAFICS (15%), SERICITE (5-15%), MINOR CHLORITIC FRACTURES, MUCH LESS QTZ-CARB (FE) VEINS, VNLTs. SPOTTY K-SPAR ALTERATION. UNIT IS MASSIVE TO WEAKLY FOLIATED @ 35° TCA. MINOR PYRITE PRESENT AS 1-2mm DISS. GRAINS AND CHL-PY VNLTs.		1 TO 0.1	100					
20						15.4'-23.4' SHEARED GABRO MEDIUM GREEN WITH DARK GREEN (1-2mm) SPOTS (2-3%), FINE GRAINED, WELL FOLIATED TO SHEARED @ 26-30° TCA. MINOR CARBONATE VNLTs, NO SULPHIDES NOTED.		0.1 TO 0.1	100					
30						23.4'-40.5' TONALITE AS IN 6.0'-15.4' BUT MORE SERICITE ALTERATION (OLIVE-GREEN) AND MORE CHLORITIC FRACTURES. SPOTTY, DISS PYRITE, 41%.		0.1 TO 0.5	100					
40						40.5'-46.0' QUARTZ FE-CARBONATE VEIN QUARTZ (50%) FE-CARBONATE (40%) VEIN WITH (10%) SHEARED, CONTORTED MAFIC FRAGMENTS WITH MINOR APPLE GREEN ALTERATION. NO SULPHIDES NOTED.		1 TO 0.5	100					
50						46.0'-150.0' TONALITE AS IN 23.4'-40.5' WITH MORE DISS. SULPHIDES ASSOC. WITHIN 1-2 m OF QTZ-FCARB VEIN. BUT OVERALL LESS CHLORITE AND SERICITE.		1 TO 0.1	100					

SHARP CUT @ 20° TCA

SHARP CUT @ 40° TCA

BROKEN
ENT
QTZ
VEIN
(BARREN)

K-SPAR

INCLINATION: -50° BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 16, 1992

DATE FINISHED: JUNE 17, 1992

TOTAL DEPTH: 399'

PAGE NO: 2 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
60							46.0' - 138.0' TONALITE								
							CONT...								
70							QTZ-FE CARB VN, minor PL			69			3.0'	4.0'	8199
													13.0'		
80										79					
90							QTZ-PY VN (41%)			89			43.0'	4.0'	8200
							QTZ-FE CARB VN'S						93.0'	4.0'	8201
													17.0'		
100							QTZ-FE CARB VN			99					
110							MAFIC DIKE			109					
							SHARP CLUTS @ 40-45' TCA								
							MAFIC DIKE								
										119					

HOLE NO. ML-92-82

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S N. 061°00 E.

DATE FINISHED: JUNE 17, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 399'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SILICA	SERICITE	CHLORITE	CARBONATE												
120								46.0' - 158.0' TONALITE								
								CONT...								
130											129	100				
140												100				
											139	100				
150												100				
											149	100				
160								158.0' - 178.0' SHEARED GABBRO				100		54.6'		
								MEDIUM GREEN, FINE TO MEDIUM GRAINED, WELL SHEARED						4.0'	8202	
								@ 0-15° TCA. TRACE CARBONATE ALTERATION AS, RARE MM-			159			3.0'	8203	
								SCALE VNITS, CHLORITIC THROUGHOUT. SEVERAL CM-						3.0'	8204	
								SCALE QTZ-FECARB VN3. WITH MINOR ASSOC. GREEN MICA.			169	100				
170								NO SULPHIDES NOTED.								
								178.0' - 189.0' TONALITE								
								AS IN 46'-158'						2.0'	8205	
											179			3.6'	8206	

↑
X-SPAR
↓

DIP TEST @ 50°

SHARP WNT
10° TCA
QTZ-FECARB
VN (GREEN MICA)

QTZ-FECARB
VN

QTZ-FECARB
VN

SHARP WNT
@ 25° TCA

HOLE NO. ML-92-82

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S N 84+00 E

DATE FINISHED: JUNE 17, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 399'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI- MATED
	SILICA	SERICITE	CHLORITE	CARBONATE												
180							MAFIC DIKE	178.0' - 189.0' TONALITE						81.0	3.0'	8206
							SHARP CUT @ 45° TCA	CONT...								
190								189.0' - 205.0' GABBRO			189					
								AS IN 158.0' - 178.0' BUT MASSIVE TO WEAKLY SHEARED		10						
								@ 35° TCA AND NO QTZ-FECARB VNS. TRACE PYRITE.		0.1		100				
200								205.0' - 235.0' TONALITE			199					
							IRREGULAR CUT	LIGHT TO MEDIUM OLIVE GREEN, MED. GRAINED, MOD. PERV.		1						
								SERICITE AND WEAK TO MODERATE PERVASIVE CARBONATE.		TO 0.1		100		4.0'	8207	
210								MOD. CHLORITIC AND PYRITIC FRACTURES AND SEVERAL			209			4.0'	8208	
							QTZ-FECARB CHL-PYVN (10%)	QTZ-FECARB-PY VNS.		0.1		100		3.0'	8209	
							MAFIC DIKE							2.0'	8210	
220								QTZ-FECARB VN			219			4.0'	8211	
								QTZ-FECARB PYVN (5%)		0.1		100		4.0'	8212	
								QTZ-FECARB PY (14%) VNS		0.5				4.0'	8213	
230							QTZ VN	235.0' - 249.0' MAFIC DIKE			229			4.0'	8214	
								DARK GREEN, FINE GRAINED, <1MM PLAG? PHENOS (1-2%),		0.1						
								WEAKLY FOLIATED @ 45° TCA, WEAK TO MOD. PERVASIVE		0.5						
								CARBONATE, MINOR CARBONATE VLTs. NO SULPHIDES								
							MAFIC DIKE SHARP CUTS @ 50-60° TCA	NOTED:								
											239					

INCLINATION: -50° BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 16, 1942

DATE FINISHED: JUNE 17, 1992

TOTAL DEPTH: 399'

PAGE NO: 6 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICA	SERICITE	CHLORITE	CARBONATE												
300							RUBBLE	296.0'-377.5' TONALITE CONT...		100	309	95				
310							K-SPAR			100	319					
320							QTZ-PYVN(40%) ← ALL BEARING URIN, MASSIVE PYRITE IS FRACTURED WITH HEMATITIC VEINLETS (15mm)			100	329					
330							K-SPAR			100	339					
340										100	349					
350							MAFIC DIKE			100	354					

HOLE NO. ML-92-82

PROJECT: 1446

PAGE NO: 7 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S N: B6+00 E.

DATE FINISHED: JUNE 17, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 399'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	SILICA	SERICITE	CHLORITE	CARBONATE				DESCRIPTIVE GEOLOGY								
360								296.0'-377.5' TONALITE CONT...		PT				35 1	4'	8222.5
										TO		100			4'	
										0.1					4'	
370											365'			21 72.5	1.5'	8222.6
								← 21 g/m ³ ALL INTERVAL IS SERICITE ALTERED, SILICIFIED, WITH FINE CHLORITIC FRACTURES, DISS. PYRITE NO VEINING, PYRITE MASSES ← NOTHING TO HELP		TO		100		24.5	2.0'	8223
										0.1				27.5	3.0'	8224
380								SHARP CNT @ 60' TCA LIGHT BEIGE-TAN, FINE GRAINED, SERICITIC (40%) PERVASIVE WEAK CARBONATE. MINOR DISS. PYRITE, WEAKLY SHEARED @ 30-40' TCA			379				3.5'	8222
										0.1		100		35	4'	8223
390											389			37.0	4'	8224
														39.7	2.7'	8225
								WTZ FE CARB UN SHARP CNT @ 55' TCA		TO		100		34.5	3.0'	8226
								394.7'-399.6' TONALITE AS IN 350'-370' (SERICITIC)		0.1					4.3'	8227
								DIP TEST @ 50° END OF HOLE 399'			399		✓ 37.6			

HOLE NO. ML-92-83

PROJECT: 1446

PAGE NO: 1 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S W 86+75 E.

DATE FINISHED: JUNE 19, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 399' (121.6m)

LOGGED BY: CJW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
0							0.0' - 11.5' OVERBURDEN CASING REMAINS								
10															
20							11.5' - 20.5' TONALITE MEDIUM TO LIGHT OLIVE GREEN TO GREY, MEDIUM GRAINED. QUARTZ (70%), MAFICS (10%), SERICITE (10%), FELD (10%). MASSIVE TO WEAKLY FOLIATED @ 50-60° TCA. PATCHY CHLORITE FILLED FRACTURES, WEAK FRACTURE CONTROLLED CARBONATE, WEAK TO MOD. PERVASIVE SERICITE. PYRITE PRESENT AS MEDIUM (2mm) DISS. AND ASSOC WITH QTZ AND OR CHLORITE VENS AND VULTS.	0.5 TO 1	19	100			4.5'	3.0'	8228
30							SHARP CUT @ 50° TCA	0.5					8.0'	3.5'	8229
								TO 0.1		29	100		10.5'	2.5'	8230
40							SHARP CUT @ 60° TCA	TO 0.1							
							MAFIC DIKE PINK K-SPAR ZONE	0.1		39	100		3.0'		
							QTZ-CHL PY VN (30%)						3.0'	4.0'	8231
50							20.5' - 32.0' GABBRO MEDIUM GREEN, MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 60° TCA. APPROX. 50% MAFICS + 50% PLAC. MOD. TO WEAK PERVASIVE CARBONATE. TRACE DISS. PYRITE	0.1		49	100				
							32.0' - 89.0' TONALITE AS IN 11.5' - 20.5', MAFIC DIKE IS APHANITIC, MEDIUM TO DARK GREY, WEAK TO MOD. CARB. NO SULPHIDES	TO 0.1		59	100		3.0'	4.0'	8232
													7.0'	4.0'	8233

HOLE NO. ML-92-83

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31400 S N 86+75 E

DATE FINISHED: JUNE 19, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 399'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE												
60					QZ		32.0' - 89.0' TONALITE								
							CONT...		0.1 0.5		100		68.0'	4.0'	8234
70										69			69.0'	4.0'	8235
									0.1		100		73.0'	4.0'	8236
					QZ-PY VN (24%)		89.0' - 101.0 SERICITE SCHIST						75.0'	2.0'	8237
80							LIGHT TAN-BEIGE, FINE GRAINED, SERICITIC (60%) WEAK PERVASIVE CARBONATE, WELL FOLIATED @ 30° EA, <1% DISS. PYRITE THROUGHOUT.			73			79.0'	4.0'	8238
									0.1		100		82.0'	3.0'	8239
					QZ-VNS				0.1		100		85.0'	3.0'	8240
90										89			89.0'	4.0'	8241
									0.1		100		92.0'	3.0'	8242
													95.0'	3.0'	8243
										99			99.0'	4.0'	8244
100							101.0' - 300.2 TONALITE						101.0'	2.0'	8245
							AS IN 11.5' - 20.5'		0.1		100		105.0'	4.0'	8246
					QZ-PY VN					109			109.0'	4.0'	8247
110									0.1		100		113.0'	4.0'	8248
													117.0'	4.0'	8249
					QZ-PY VN (44%)					119			120.0'	3.0'	8250

HOLE NO. ML-92-83

CASING COLLAR ELEV.:

COORDINATES: 314045 N

INCLINATION: -50°

GROUND ELEV.:

86+75 E.

BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 18, 1992

DATE FINISHED: JUNE 19, 1992

TOTAL DEPTH: 399'

PAGE NO: 3 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
120							101.0' - 300.2' TONALITE		P9				120.0'		
							CONT...		0.5				124.0'	4.0'	8246
									1				127.0'	3.0'	8247
130										129			130.0'	3.0'	8248
							TONALITE ABOVE AND BELOW HG VEIN IS SERICITIC		0.1				133.0'	3.0'	8249
							PLENTY QTR VEINS WITH FOGGY MARGINS, CHLORITE IS		TO				136.0'	4.0'	8250
							REDUCED TO <5% BUT COMMON ON FRACTURE PLANES AND		0.5				139.0'	4.0'	8251
140							PRESENT ON SOME VEIN MARGINS (LATER SET)			139			141.0'	4.0'	8252
							V.G. (HAND SAMPLE)		0.5				145.0'	4.0'	8253
							HIGH GRADE VEIN (1.65 opt) MILKY QUARTZ WITH 10% FE CARB		2				147.0'	2.0'	8254
							30-40% MASSIVE PYRITE LENS, <2% CHALCOPYRITE, VEIN MARGINS			149			151.0'	4.0'	8255
150							ARE CHLORITIC, GOLD OBSERVED AS FRACTURE FILLING						155.0'	4.0'	8256
							SOME VEINS HAVE LADDER TEXTURE		0.1				159.0'	4.0'	8257
										159			163.0'	4.0'	8258
													167.0'	4.0'	8259
									0.1				171.0'	3.0'	8260
170									TO				172.0'	4.0'	8261
									0.5				179.0'	4.0'	8262

HOLE NO. ML-92-83

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 314005 N 84 75 E

DATE FINISHED: JUNE 19, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 399'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
100							101.0' - 300.2' TONALITE						181.6'	4.0'	8262
							CONT...		0.1		100		185.0'	4.0'	8263
190										189			189.0'	4.0'	8264
									0.1		100		193.0'	4.0'	8265
200							K-SPAR ZONES APPEAR TO BE THE UNALTERED INTERVALS - GRANODIORITE			199			199.0'	4.0'	8266
									0.1		100		203.0'	4.0'	8267
210										209			210.0'	5.0'	8268
									0.5		100		213.0'	3.0'	8269
									1				217.0'	4.0'	8270
220										219			221.0'	4.0'	8271
									0.1		100		225.0'	4.0'	8272
230										229			229.0'	4'	8273
									0.1		100		233.0'	4.0'	8274
													237.0'	4.0'	8275
										239			241.0'	4.0'	8276

HOLE NO. ML-92-83

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31400 S N 86475 E.

DATE FINISHED: JUNE 19, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 399'

LOGGED BY: CJW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE												
240					QTZ		101.0' - 300.2' TONALITE CONT...		PT				241		
									1 TO 0.1		100		244	3.0'	8935
													247	3.0'	8936
250										249				4.0'	8937
									0.1 TO 0.5		100		251.0'	3.0'	8271
													254.0'	4.0'	8272
										259			258.0'		
260													262.0'	4.0'	8274
									0.1 TO 0.5		100		266.0'	4.0'	8275
										269			270.0'	4.0'	8276
270									0.1		100		273.0'	3.0'	8277
										279					
280									1 TO 0.1		100				
										289					
290									1 TO 0.1		100		297.0'		
										299				4.2'	8278

DIP TEST @ 50°

HOLE NO. ML-92-83

CASING COLLAR ELEV.:

COORDINATES: 31+00.3 N. 86+75 E.

INCLINATION: -50° BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 18, 1992

DATE FINISHED: JUNE 19, 1992

TOTAL DEPTH: 399'

PAGE NO: 6 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CSW

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE	FRACTURING										
300					QTZ	SHARP CUT @ 60° TCA								
						300.2' - 320.0' MAFIC DIKE								
						DARK GREEN, Aphanitic to fine grained <1mm 3% PLAG PHENOS, MASSIVE, FEW CARB VNLTs, MOD TO WEAK PERVASIVE CARB. NO SULPHIDES NOTED.								
310														
320						TONALITE BROKEN CUT						320.0'		
						320.0' - 399.0' TONALITE								
						AS IN 11.5' - 20.5' BUT WITH MUCH MORE CHLORITE FILLED FRACTURES AND QTZ VNS.								
						QTZ-CHL VN						324.0'	4.0'	8279
						QTZ-CHL VN						328.0'	4.0'	8280
						QTZ-CHL VN						332.0'	4.0'	8281
330						QTZ-CHL VN						336.0'	4.0'	8282
						QTZ-CHL VN						340.0'	3.0'	8283
						QTZ-CHL VN						344.0'	3.0'	8284
340						QTZ-CHL VN						348.0'	3.0'	8285
						QTZ-CHL VN						352.0'	3.5'	8286
						QTZ-CHL VN						356.0'	3.5'	8287
350						QTZ-CHL VN						360.0'	3.0'	8288
						QTZ-CHL VN						364.0'	3.0'	8289
						QTZ-CHL VN						368.0'	3.5'	8290

HOLE NO. ML-92-83

PROJECT: 1446

PAGE NO: 7 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 314005 N 86475 E

DATE FINISHED: JUNE 19, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 399' (121.6m)

LOGGED BY: CJSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE												
360							320.0' - 399.0' TONALITE CONT. ...		0.1				362.5'	3.5'	8291
							QTLVNS QZ-FE CARB PYVN (15%) QTLVNS		0.5		100		366.0'	3.5'	8291
370										369			370.0'	4.0'	8292
									0.1		100				
380							QZ-FE CARB VN QTLV VN (10%) K-SPAR			379			379.0'		
							QZ-CHL PYVN (10%) QZ-FE CARB VN		12		100		382.0'	3.0'	8293
									0.1				385.0'	3.0'	8294
390							RUBBLE		12.5		100				
							NO TEST			399					
							END OF HOLE @ 399'								

HOLE NO. ML-92-84

PROJECT: 1446

PAGE NO: 2 OF 9

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 20, 1992

REF. TO CLAIM CORNER:

COORDINATES 31+20

N. 86+75 E.

DATE FINISHED: JUNE 22, 1992

SCALE: 1" = 10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 489'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE												
60							32.5' - 35.9 MAFIC DIKE (cont.)								
							Pyrite present in fine (<1mm) diss., also rarely associated with quartz-carb. veinlets								
							QTZ PY VN (1%) SHARP CONTACT (CHL)		<0.1		100			4.0	8300
70							SHARP CONTACT (CHL)			69				3.5	8301
							35.9' - 68.5' TONALITE								
							As in 25.0' - 32.5'. But with more chlorite, mainly as patchy filled fractures		<0.1		100				
							QTZ PY VN (20.1%)								
80							QTZ, FE-CARB, CHL VN			79					
							K-SPAR		<0.1		100				
							68.5' - 70.1' MAFIC DIKE								
90							As in 32.5-35.9. Fewer sulphides. More intense chlorite veining along with quartz-Fe-carb. veinlets.			89					
							TONALITE		<0.1		100				
							70.1 - 85.0 TONALITE								
100							As in 35.9-68.5. Limonite and Hematite stains occur as patches and along fractures.			99				4.0	8302
							QTZ, FE-CARB VN		<0.1		100			4.0	8303
							85.0 - 91.0 MAFIC DIKE								
110							As in 68.5-70.1. Tonalite section as in 70.1-85.0			109					
							SHARP CONTACT		<0.1		100				
							K-SPAR			119					

HOLE NO. ML-92-84

CASING COLLAR ELEV.:

COORDINATES: 31+20

INCLINATION: -50

GROUND ELEV.:

N 86+75 E.

BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 20, 1992

DATE FINISHED: JUNE 22, 1992

TOTAL DEPTH: 489'

PAGE NO: 3 OF 9

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI- MATED
	SERECITE	CHLORITE	CARBONATE											
120							91.0' - 115.0' TONALITE							
							As in 70.1-85.0'. Few sulphides. K-spar more intense							
130							Qtz Fe Carb VN							
							K-SPAR							
140							115.0' - 125.5' SHEARED GABBRO							
							Dark green with white. Medium grained. Massive to weakly sheared at 30° TCA., weakly sericitic in small patches. Moderate to strong pervasive carbonate, also in veinlets. Hematite patches (1.0 mm) are common throughout unit. Trace disseminated sulphide.							
150							CARB. VN WITH LIMONITE							
							DIP TEST AT 48°							
160							125.5' - 219.2' TONALITE							
							As in 70.1'-85.0'. Moderate sercite alteration begins. Limonite + Hematite diminish.							
170							Qtz Chl, Fe Carb, PY VNS							

HOLE NO. ML-92-84

PROJECT: 1446

PAGE NO: 4 OF 9

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 20, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+20

N 86+75 E.

DATE FINISHED: JUNE 22, 1992

SCALE: 1" = 10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 489'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	* SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SERECITE	CHLORITE	CARBONATE												
180							QTZ PY VN LIMONITE + HEMATITE END		Py				181.0		
									<0.1	100			185.0	4.0	8307
													188.0	3.0	8308
190										189					
									<0.1	100					
200										199					
									<0.1	100			209.0		
														4.0	8309
210													213.0		
									<0.1	100			216.0	3.0	8310
													219.5	3.5	8311
220							SHARP CONTACT AT 45° TCA			219				4.0	8312
									<0.1	100			223.5		
							QTZ PY VNS (<0.1%)						226.0	1.5	8313
														4.0	8314
230							SHARP CONTACT AT 60° TCA			229			230.0		
													232	2'	8315
									<0.1	100			234	2'	8316
														4'	8317
													238		
														4'	8318
										239				4'	8319

219.2'-230.0' SERECITE SCHIST

Light yellow to olive green. Well foliated at 45° TCA Serecitic (80%). Few Qtz-py veins up to 3cm thick. Moderate pervasive carbonate, also as veinlets and fracture fillings in quartz. Minor chlorite as veinlets and as fracture fillings. <0.1% disseminated pyrite in Qtz veins.

230.0'-403.0' TONALITE

As in 35.9' - 68.5'

HOLE NO. ML-92-84

CASING COLLAR ELEV.:

COORDINATES: 31+20 N. 86+75 E.

INCLINATION: -50°

BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 20, 1992

DATE FINISHED: JUNE 22, 1992

TOTAL DEPTH: 489'

PAGE NO: 5 OF 9

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTIMATED
	SERICITE	CHLORITE	CARBONATE												
240							230.0 - 403.0' TONALITE (cont.)		0			30M	242		
									<0.1		100		4'	8342	
													2'	8343	
250						QTZ PY VN				249			4.0	8314	
									<0.1		100		4.0	8315	
260						QTZ PY VN				259			4.0	8316	
									<0.1		100		3.0	8317	
													4.0	8318	
270						QTZ PY, P, CP, Fe Carb. Vn 10cm wide (25% sulphides)	Potential High Grade Vein, NO CHLORITE AT VEIN MARGINS TONALITE IS MOTTLED MILKY SERICITE TYPE ABOUT VEIN			269			3.0	8319	
						QTZ PY Vn			<0.1		100		4.0	8320	
						QTZ PY Vn							4.0	8321	
280									<0.1 TO 0.5		100		4.0	8322	
													4.0	8323	
290										289			4.0	8324	
									<0.1 TO 0.5		100		4.0	8325	
													4.0	8326	
										299					

NUMEROUS QTZ, FE CARB / PY (40.1%)
VEINS - VEINLETS

- DIPTTEST AT 46°

HOLE NO. ML-92-84

PROJECT: 1446

PAGE NO: 6 OF 9

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 20, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+20 N

86+75 E.

DATE FINISHED: JUNE 22, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 489'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
300							230.0'-403.0' TONALITE (cont.)		P ₄						
							NUMEROUS Qtz, FE CARB / PY (<0.1%) VEINS + VEINLETS		<0.1	100			4.0	83.77	
310										309			4.0	83.77	
									<0.1	100			4.0	83.80	
										319			4.0	83.81	
										319			4.0	83.82	
									<0.1	100			4.0	83.83	
										329			4.0	83.84	
									<0.1	100			4.0	83.85	
										329			4.0	83.86	
									<0.1	100			4.0	83.87	
340									TO 0.5	100			4.0	83.88	
										349			4.0	83.89	
350							TR CPY ← SILICIFIED TONALITE WITH DISS PYRITE, PY-CPY-CHL VEINLETS WITHIN AN BEARING INTERVAL		<0.1	100			4.0	83.90	
										359			4.0	83.91	

INCLINATION: -50°

GROUND ELEV.:

N 86 + 75 E.

BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 20, 1992

DATE FINISHED: JUNE 22, 1992

TOTAL DEPTH: 489'

PAGE NO: 9 OF 9

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. P. [unclear]

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTIMATED
	CELESTITE	CHLORITE	EPIDIDOTE												
40							428.0' - 489.0' TONALITE (cont.) SEVERAL QTZ, FE-CARB. VNS As in 35.9' - 68.5' DIP TEST AT 43° 489.0' END OF HOLE		0						
50									20.1	489					
60										509					
70										519					
80										529					
90										539					

HOLE NO. ML-92-85

CASING COLLAR ELEV.:

COORDINATES: 31+105 N. 85+75 E.

INCLINATION: -50° BEARING: 000°

PROJECT: 144

DATE STARTED: JUNE 23, 1992

DATE FINISHED: JUNE 24, 1992

TOTAL DEPTH: 379' (115.5m)

PAGE NO: 1 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CTW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE													
0								0.0' - 9.0' OVERBURDEN CASING REMAINS		PT			2			
10								9.0' - 63.5' TONALITE MEDIUM GREY + MEDIUM GRAINED, MINOR CHLORITIC FRACTURES, WEAK SERICITE (PATCHY), MASSIVE TO WEAKLY FOLIATED @ 50° TCA. MINOR PYRITE PRESENT AS 1 mm DISS. GRAINS AND ASSOC. WITH CHL VNLTs. NARROW GABBRO UNIT, MED. GRAINED, MASSIVE, NO SULPHIDES.			9'		3			
20							QTL-CHL PY VN (71%)			0.1		100	13.0'	4.0'	8353	
							QTL-FC CARB VN				19		16.0'	4.0'	8354	
										0.1		10	3.0'	4.0'	8355	
30							QTL-PY VN (57%)				29		7.0'	4.0'	8356	
										0.1		100	13.0'	4.0'	8357	
40							GABBRO				39		12.5'	3.0'	8358	
										0.1		100	7.2'	1.0'	8359	
							QTL-FC CARB CHL-PY VN (9%)				49		14.0'	4.0'	8360	
50										TO 0.1		100	5.0'	7.0'	8361	
										TO 0.1		100	5.0'	7.0'	8362	
											59					

HOLE NO. ML-92-85

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.: 1110.5

GROUND ELEV.: 85+75 E.

DATE STARTED: JUNE 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 1110.5

N. 85+75 E.

DATE FINISHED: JUNE 24, 1992

SCALE: 1:50'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 379'

LOGGED BY: CTW

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	GREEN MICA	SERICITE	CHLORITE	CARBONATE										
50						SHARP ENT @ 15° TCA								
60						IRREGULAR ENT			69					
70						IRREGULAR ENT QZ-FE CARB								
80						IRREGULAR ENT								
90														
100														
110														

9.0' - 63.5' TONALITE

CONT...

63.5' - 68.5' SHEARED GABBRO

MEDIUM TO DARK GREEN, FINE TO MEDIUM GRAINED WITH
4mm DARK GREEN LENSES (AMPH?). WELL SHEARED
@ 15° TCA. MINOR GREEN MICA SPOTS. NO SULPHIDES

68.5' - 72.5' QUARTZ ZONE

SERICITE ALTERED TONALITE WITH UP TO 70% QUARTZ-
FE-CARBONATE VEINS. NO SULPHIDES NOTED.

72.5' - 165.5' TONALITE

AS IN 9.0' - 63.5' BUT WITH PATCHES OF MUCH STRONGER
SERICITE ALTERATION AND CHLORITE FRACTURES.

↑
PATCHY
K-SPAR
↓

HOLE NO. ML-92-85

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+10.5 N 85+75 E.

DATE FINISHED: JUNE 24, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 379'

LOGGED BY: CTW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SEALITE	CHLORITE	CARBONATES												
120							72.5'-165.5' TONALITE CONT...		PY						
130										129					
140										139					
150							DIP TEST @ 50°			149					
160										159					
170							165.5'-170.5' MARIC DIKE DARK GREEN FINE GRAINED, WEAKLY FOLIATED @ 40° TCA TRACE DIS PYRITE 170.5'-243.0' TONALITE AS IN 72.5'-165.5'			169					
										179					

HOLE NO. ML-92-85

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+10.5 N. 85+75 E.

DATE FINISHED: JUNE 24, 1992

SCALE: 1"=10'

INCLINATION: -50'

BEARING: 000°

TOTAL DEPTH: 319'

LOGGED BY: CFW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES X PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	SERICITE	CHLORITE	DARCONATE												
180							170.5' - 243.0' TONALITE								
							CONT...		0.1	189			180	4.0	8371
190									0.1	199			180	4.0	8372
									0.1	209			180	4.0	8373
200							MARBLE VEIN		0.1	209			180	4.0	8374
							QTZ-FE CARB CHL VNS		0.1	209			180	4.0	8375
210									0.1	219			180	4.0	8376
							QTZ-FE CARB VNS		0.1	219			180	4.0	8377
220							QTZ-CHL PY VNS (2%)		0.1	229			180	4.0	8378
									0.1	239			180	4.0	8379
230									0.1	239			180	4.0	8380

HOLE NO. ML-92-85

PROJECT: 144L

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 314105 N 85+75 E

DATE FINISHED: JUNE 24, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 379'

LOGGED BY: CSW

SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE	FRACTURING										
240						QTZ-CHL PY (L) VNS IRREGULAR CNT		0.1				143.0'	4.0'	8378
						170.5'-243.0' TONALITE								
						CONT...				100				
						243.0'-274.5' SHEARED GABBRO			249					
250						MED. TO DARK GREEN, FINE GRAINED, WEAKLY SHEARED								
						@ 25-30° TCA. MOD CARBONATE VNS. AND UNITS +				100				
						WEAK TO MOD. PERVASIVE CARBONATE. NO SULPHIDES								
						NOTED.			259					
260										100				
									269					
270														
						SHARP CNT @ 25° TCA				100		274.5'		
						274.5'-312.0' TONALITE		0.1				277.0'	4.5'	8379
280						AS IN 9.0'-63.5' BUT WITH WEAK TO MOD. PERVASIVE			279			282.0'	4.0'	8380
						CARBONATE. FINE DIS. PY <1%. WEAK TO MOD.						287.0'	4.0'	8381
						FRATURE CONTROLLED HEMATITE.		0.1		100		291.0'	4.0'	8382
290									289			291.0'	4.0'	8382
								0.1						
									299					

HEMATITE

DIP TEST @ 50°

HOLE NO. ML-92-85

CASING COLLAR ELEV.:

COORDINATES: 24105

INCLINATION: -50°

GROUND ELEV.:

N: 85475 E.

BEARING: 000°

PROJECT: 1446

DATE STARTED: JUNE 23, 1992

DATE FINISHED: JUNE 24, 1992

TOTAL DEPTH: 379'

PAGE NO: 6 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: C.S.V.

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE REC'Y	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI- MATED
	SERICITE	CHLORITE	CARBONATE												
300							274.5'-312.0' TONALITE CONT...		0.1				304.3		
310							312.0'-322.0' GABBRO AS IN 63.5'-68.5' WITHOUT GREEN MILCA AND WITH WEAK TO MOD. CARBONATE AND MASSIVE. TRACE PYRITE		1 TO 21	309			309.0	4.5'	8383
320							322.0'-331.0' TONALITE AS IN 274.5'-312.0'			319					
330							331.0'-349.0' MAFIC DIKE / GABBRO? MED. TO DARK GREEN, FINE TO MED. GRAINED, MASSIVE TO WEAKLY FOLIATED @ 25° TCA. NO SULPHIDES NOTED.			329					
340							349.0'-353.5' TONALITE AS IN 72.5'-165.5'			339					
350							353.5'-364.0' MAFIC DIKE / SERICITE SCHIST AS IN 331.0'-349.0' BUT IS A MED TO LIGHT GREEN-GREY COLOUR. TRACE PYRITE		1 50	349			349.5	4.0'	8284
										359			353.5	4'	8285

HOLE NO. ML-92-85

PROJECT: 1446

PAGE NO: 7 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+10 S N 85+75 E

DATE FINISHED: JUNE 24, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 379'

LOGGED BY: CSW

SECTION	ALTERATION				MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI- MATED
	OXIDATION	CHLORITE	SERICITE	CARBONATE											
360							353.5'-364.0' MAFIC DIKE / SERICITE SCHIST		PY						
							CONT...								
							364.0'-365.0' SERICITE SCHIST		TO 0.1		100		369	4'	8871
370							LIGHT TAN, FINE GRAINED, SERICITE, TRACE PYRITE			369					
							365.0'-379.0' TONALITE								
							AS IN 9.0'-63.5' WITH WEAK PERV. CARB. AND PATCHY		1 TO 0.1		100		373	4'	8872
							SERICITE, TRACE PYRITE.						377	4'	8873
							NO TEST			379			379	2'	8874
							END OF HOLE								

APPENDIX II

REPORT OF ANALYSIS

Appendix II: GOLD ANALYSIS - McVICAR LAKE 1992

hid	sample	width	AU
ML-92-64	59801	0.90	2.00
ML-92-64	59802	0.90	1200.00
ML-92-64	59803	0.90	5.00
ML-92-64	59804	0.90	31.00
ML-92-64	59805	0.90	2.00
ML-92-64	59806	0.50	8.00
ML-92-64	59807	0.90	3.00
ML-92-64	8424	1.27	2.50
ML-92-64	8425	0.92	2.50
ML-92-64	8426	1.16	2.50
ML-92-64	8427	1.29	25.00
ML-92-64	8428	1.52	25.00
ML-92-64	8429	1.52	30.00
ML-92-64	8430	1.52	35.00
ML-92-64	8431	1.52	20.00
ML-92-64	8432	0.86	2.50
ML-92-64	8433	0.67	15.00
ML-92-64	8434	1.52	30.00
ML-92-64	8435	1.52	2.50
ML-92-64	8436	1.52	620.00
ML-92-64	8437	0.62	25.00
ML-92-64	59808	0.50	60.00
ML-92-64	59809	1.10	560.00
ML-92-64	8438	1.29	15.00
ML-92-64	8391	0.91	120.00
ML-92-64	8392	0.67	110.00
ML-92-64	59810	0.50	11900.00
ML-92-64	8393	0.88	15.00
ML-92-64	59811	0.90	5600.00
ML-92-64	8394	1.52	240.00
ML-92-64	8439	0.77	100.00
ML-92-64	8440	0.89	25.00
ML-92-64	59812	1.18	300.00
ML-92-64	8441	1.89	25.00
ML-92-64	8442	1.22	160.00
ML-92-64	8443	0.91	120.00
ML-92-64	8444	0.87	2.50
ML-92-64	59813	1.45	140.00
ML-92-64	8445	0.82	210.00
ML-92-64	8446	0.92	50.00
ML-92-64	8447	0.70	130.00
ML-92-64	8448	0.94	20.00
ML-92-64	8449	0.80	15.00
ML-92-64	8450	1.06	120.00
ML-92-64	8451	0.92	20.00
ML-92-64	8452	0.97	110.00
ML-92-64	8453	1.01	100.00
ML-92-64	8454	0.91	270.00
ML-92-64	8455	0.92	100.00

hid	sample	width	AU
ML-92-64	8456	1.07	180.00
ML-92-64	8457	0.91	30.00
ML-92-64	8458	1.37	15.00
ML-92-64	8459	1.22	2.50
ML-92-64	8460	0.92	10.00
ML-92-64	59814	0.80	260.00
ML-92-64	59815	0.50	3000.00
ML-92-64	59816	1.10	80.00
ML-92-64	59817	0.90	55.00
ML-92-64	59818	1.10	9.00
ML-92-64	59819	0.90	20.00
ML-92-64	59820	1.10	46.00
ML-92-64	59821	1.30	1.00
ML-92-64	59822	1.20	13.00
ML-92-64	59823	1.10	4.00
ML-92-64	59824	1.30	7.00
ML-92-64	59825	1.20	3.00
ML-92-64	59826	1.50	11.00
ML-92-64	59827	0.80	37.00
ML-92-64	59828	0.90	32.00
ML-92-64	59829	1.40	13.00
ML-92-64	59830	1.20	5.00
ML-92-64	8461	1.07	30.00
ML-92-64	8462	1.22	10.00
ML-92-64	8463	1.21	15.00
ML-92-64	8464	1.22	5.00
ML-92-64	8465	1.22	20.00
ML-92-64	8466	1.22	10.00
ML-92-64	8467	1.22	10.00
ML-92-64	8468	1.22	20.00
ML-92-66	59851	0.87	19.00
ML-92-66	8469	0.80	220.00
ML-92-66	8470	0.88	10.00
ML-92-66	8471	0.91	160.00
ML-92-66	59852	1.22	0.50
ML-92-66	8472	1.22	5.00
ML-92-66	8473	0.92	5.00
ML-92-66	8474	0.92	20.00
ML-92-66	8475	1.22	10.00
ML-92-66	8476	1.22	40.00
ML-92-66	8477	1.22	5.00
ML-92-66	8478	1.22	15.00
ML-92-66	8479	1.21	15.00
ML-92-66	8480	1.22	55.00
ML-92-66	8481	1.22	2.50
ML-92-66	8482	1.22	2.50
ML-92-66	8483	1.22	25.00
ML-92-66	8484	2.08	10.00
ML-92-66	8486	0.82	30.00
ML-92-66	8395	1.52	5.00
ML-92-66	59853	1.07	1400.00

hid	sample	width	AU
ML-92-66	59854	1.10	12.00
ML-92-66	59855	1.43	120.00
ML-92-66	8396	1.22	90.00
ML-92-66	8397	1.22	15.00
ML-92-66	8398	0.82	2.50
ML-92-66	59856	0.91	350.00
ML-92-66	59857	0.90	45.00
ML-92-66	59858	1.40	48.00
ML-92-66	59859	1.10	24830.00
ML-92-66	59860	1.10	160.00
ML-92-66	59861	1.00	180.00
ML-92-66	8487	1.07	20.00
ML-92-66	8488	1.22	140.00
ML-92-66	8489	0.91	270.00
ML-92-66	8490	1.07	170.00
ML-92-66	59862	0.95	88.00
ML-92-66	59863	0.50	73.00
ML-92-66	59864	0.40	1400.00
ML-92-66	59865	1.20	47.00
ML-92-66	59866	1.10	510.00
ML-92-66	59867	1.32	910.00
ML-92-66	8399	1.52	25.00
ML-92-66	8400	0.88	40.00
ML-92-66	59868	1.22	450.00
ML-92-66	8401	1.52	150.00
ML-92-66	59869	1.22	1100.00
ML-92-66	8402	1.52	170.00
ML-92-66	8403	1.52	95.00
ML-92-66	59870	0.61	120.00
ML-92-66	8404	1.22	180.00
ML-92-66	8485	0.91	60.00
ML-92-66	8491	0.61	100.00
ML-92-66	59871	1.14	63.00
ML-92-66	8492	1.28	200.00
ML-92-66	8493	1.13	15.00
ML-92-66	8494	0.82	2.50
ML-92-66	8495	0.61	11300.00
ML-92-66	8496	0.92	20.00
ML-92-66	8497	1.03	20.00
ML-92-66	8405	1.52	15.00
ML-92-67	59872	0.90	2.00
ML-92-67	59873	0.90	11.00
ML-92-67	59874	0.90	2.00
ML-92-67	59875	0.90	6.00
ML-92-67	59876	0.90	4.00
ML-92-67	8406	1.52	2.50
ML-92-67	59877	1.21	300.00
ML-92-67	8407	1.52	2.50
ML-92-67	59878	0.90	17.00
ML-92-67	59879	1.20	23.00
ML-92-67	59880	0.90	61.00

hid	sample	width	AU
ML-92-67	8831	1.22	30.00
ML-92-67	8832	1.22	20.00
ML-92-67	8833	1.22	2.50
ML-92-67	8834	1.22	35.00
ML-92-67	8835	1.22	2.50
ML-92-67	8408	1.52	5100.00
ML-92-67	59881	0.90	91.00
ML-92-67	59882	0.57	420.00
ML-92-67	8409	1.52	85.00
ML-92-67	8410	1.52	260.00
ML-92-67	59883	0.89	670.00
ML-92-67	8411	1.52	25.00
ML-92-67	8498	0.92	2.50
ML-92-67	8499	0.91	2.50
ML-92-67	8500	0.91	2.50
ML-92-67	8901	0.92	5.00
ML-92-67	8902	0.91	2.50
ML-92-67	8903	0.92	2.50
ML-92-67	8904	0.91	2.50
ML-92-67	8905	0.92	2.50
ML-92-67	8906	0.91	10.00
ML-92-67	8907	1.22	10.00
ML-92-67	8908	1.22	50.00
ML-92-67	8909	1.22	75.00
ML-92-67	8910	1.22	35.00
ML-92-67	8911	1.22	20.00
ML-92-67	8912	1.22	10.00
ML-92-67	8913	1.22	5.00
ML-92-67	8914	1.22	450.00
ML-92-67	8915	1.52	2.50
ML-92-67	8916	1.22	15.00
ML-92-67	8917	1.22	20.00
ML-92-67	8918	1.22	35.00
ML-92-67	8919	1.22	130.00
ML-92-67	8920	1.22	55.00
ML-92-67	8921	1.22	280.00
ML-92-67	8922	0.91	10.00
ML-92-67	8010	1.50	40.00
ML-92-67	8011	1.50	430.00
ML-92-67	8012	1.50	30.00
ML-92-67	8013	1.50	140.00
ML-92-67	8014	1.20	80.00
ML-92-67	8015	1.50	140.00
ML-92-67	8016	1.20	15.00
ML-92-67	8017	0.90	65.00
ML-92-67	8018	0.90	290.00
ML-92-67	8019	1.50	50.00
ML-92-67	8020	1.50	10.00
ML-92-67	8021	1.50	1200.00
ML-92-67	8022	1.50	50.00
ML-92-67	8023	0.90	100.00
ML-92-67	8024	1.50	260.00

hid	sample	width	AU
ML-92-67	8025	1.20	1050.00
ML-92-67	8026	1.00	65.00
ML-92-67	8027	0.90	10.00
ML-92-67	8028	1.20	20.00
ML-92-67	8029	1.20	5.00
ML-92-67	8030	1.20	1450.00
ML-92-67	8031	0.90	130.00
ML-92-67	8032	1.50	25.00
ML-92-67	8033	1.50	90.00
ML-92-67	8034	1.50	120.00
ML-92-67	8035	1.50	60.00
ML-92-76	60628	1.20	2900.00
ML-92-76	60629	1.20	24.00
ML-92-76	60630	1.20	2600.00
ML-92-76	60631	0.90	150.00
ML-92-76	60632	0.60	1700.00
ML-92-76	60633	1.20	210.00
ML-92-76	60634	1.20	350.00
ML-92-76	60635	0.89	400.00
ML-92-76	8385	1.68	40.00
ML-92-76	60636	1.13	240.00
ML-92-76	60637	1.25	360.00
ML-92-76	8386	1.22	40.00
ML-92-76	8387	0.92	2.00
ML-92-76	8388	1.22	25.00
ML-92-76	60638	1.22	330.00
ML-92-76	8389	1.22	30.00
ML-92-76	8390	1.22	2.00
ML-92-76	60639	1.19	210.00
ML-92-76	8416	1.52	20.00
ML-92-76	60640	0.86	230.00
ML-92-76	8417	1.52	5.00
ML-92-76	8950	1.22	40.00
ML-92-76	8951	1.22	55.00
ML-92-76	8952	1.22	270.00
ML-92-76	8953	1.22	240.00
ML-92-76	8954	1.22	130.00
ML-92-76	8955	1.22	150.00
ML-92-76	8956	1.22	30.00
ML-92-76	60641	1.22	1100.00
ML-92-76	8957	1.22	180.00
ML-92-76	8958	1.22	200.00
ML-92-76	8959	1.22	20.00
ML-92-76	8960	1.21	15.00
ML-92-76	8961	1.53	5.00
ML-92-76	60642	1.22	4300.00
ML-92-76	8418	0.91	130.00
ML-92-76	8419	1.22	170.00
ML-92-76	8420	0.91	75.00
ML-92-76	8421	1.22	35.00
ML-92-76	8962	0.91	20.00

hid	sample	width	AU
ML-92-76	8963	1.22	320.00
ML-92-76	8964	1.22	80.00
ML-92-76	8965	1.22	95.00
ML-92-76	8422	1.22	75.00
ML-92-76	8423	1.22	50.00
ML-92-76	8966	1.22	10.00
ML-92-76	8967	1.22	180.00
ML-92-76	8968	1.22	70.00
ML-92-76	8969	1.22	10.00
ML-92-76	8970	1.22	11900.00
ML-92-76	8971	1.22	40.00
ML-92-76	8972	1.22	100.00
ML-92-76	8973	1.22	30.00
ML-92-76	8974	1.21	2.00
ML-92-76	8975	1.22	10.00
ML-92-76	8976	1.22	2.00
ML-92-76	8977	1.22	2.00
ML-92-76	8978	1.22	2.00
ML-92-76	8979	1.22	2.00
ML-92-76	8980	1.22	2.00
ML-92-76	8981	0.55	2.00
ML-92-76	60643	0.70	5.00
ML-92-76	60644	1.20	20.00
ML-92-76	60645	1.20	5.00
ML-92-76	60646	0.80	10.00
ML-92-76	60647	1.20	350.00
ML-92-76	8982	0.73	45.00
ML-92-76	8983	0.91	25.00
ML-92-76	8984	1.22	10.00
ML-92-76	8985	1.22	30.00
ML-92-76	8986	1.22	65.00
ML-92-76	8987	1.22	5.00
ML-92-76	8988	1.22	55.00
ML-92-77	60648	1.10	100.00
ML-92-77	60649	1.20	870.00
ML-92-77	60650	1.20	39.00
ML-92-77	60651	0.90	12.00
ML-92-77	60652	1.20	2.00
ML-92-77	8810	0.61	2.00
ML-92-77	8989	1.22	2.00
ML-92-77	8990	1.22	2.00
ML-92-77	8991	1.22	5.00
ML-92-77	8992	1.22	2.00
ML-92-77	8993	1.22	2.00
ML-92-77	8994	1.22	2.00
ML-92-77	8995	1.22	2.00
ML-92-77	8996	1.22	2.00
ML-92-77	8997	1.22	2.00
ML-92-77	60653	1.20	3.00
ML-92-77	60654	1.20	2.00
ML-92-77	8998	1.22	2.00

hid	sample	width	AU
ML-92-77	8999	1.22	5.00
ML-92-77	9000	1.22	5.00
ML-92-77	8801	1.22	2.00
ML-92-77	8802	1.22	2.00
ML-92-77	8803	1.22	5.00
ML-92-77	8804	1.22	2.00
ML-92-77	8805	1.22	5.00
ML-92-77	8806	1.22	15.00
ML-92-77	8807	1.22	15.00
ML-92-77	8808	0.91	5.00
ML-92-77	8809	0.91	75.00
ML-92-77	60655	1.10	7.00
ML-92-77	60656	1.00	170.00
ML-92-77	60657	1.00	17.00
ML-92-77	60658	1.10	130.00
ML-92-77	60659	1.10	39.00
ML-92-77	60660	0.90	40.00
ML-92-79	8007	1.60	15.00
ML-92-79	8009	0.30	60.00
ML-92-79	8008	0.90	5.00
ML-92-79	8001	1.50	260.00
ML-92-79	8002	1.50	20.00
ML-92-79	8003	1.50	25.00
ML-92-79	8004	0.30	2.50
ML-92-79	8005	1.50	330.00
ML-92-79	8006	0.60	5.00
ML-92-80	8036	1.00	5.00
ML-92-80	8037	1.20	20.00
ML-92-80	8038	1.20	210.00
ML-92-80	8039	1.20	70.00
ML-92-80	8040	1.20	10.00
ML-92-80	8041	1.20	2.50
ML-92-80	8042	1.20	20.00
ML-92-80	8043	1.20	60.00
ML-92-80	8044	1.20	2.50
ML-92-80	8045	1.10	120.00
ML-92-80	8046	1.10	25.00
ML-92-80	8047	1.20	35.00
ML-92-80	8048	0.90	25.00
ML-92-80	8049	1.20	50.00
ML-92-80	8050	1.30	10.00
ML-92-80	8051	1.50	40.00
ML-92-80	8052	1.20	130.00
ML-92-80	8053	1.30	25.00
ML-92-80	8819	1.07	5.00
ML-92-80	8820	1.22	5.00
ML-92-80	8821	1.22	10.00
ML-92-80	8822	0.91	25.00
ML-92-80	8054	0.90	40.00
ML-92-80	8811	0.40	15.00

hid	sample	width	AU
ML-92-80	8812	0.52	2.50
ML-92-80	8828	0.91	2.50
ML-92-80	8813	1.01	110.00
ML-92-80	8814	0.88	10.00
ML-92-80	8815	0.40	2.50
ML-92-80	8055	0.60	7250.00
ML-92-80	8816	1.37	25.00
ML-92-80	8817	1.28	70.00
ML-92-80	8818	1.16	2.50
ML-92-80	8056	1.20	2.50
ML-92-80	8057	1.20	20.00
ML-92-80	8058	1.20	2.50
ML-92-80	8059	1.20	250.00
ML-92-80	8060	0.90	30.00
ML-92-80	8061	0.70	15.00
ML-92-80	8062	0.90	5.00
ML-92-80	8063	0.50	2.50
ML-92-80	8064	1.20	45.00
ML-92-80	8065	0.60	2.50
ML-92-80	8066	1.00	25.00
ML-92-80	8067	1.30	10.00
ML-92-80	8068	1.50	560.00
ML-92-80	8069	0.90	15.00
ML-92-80	8070	0.60	830.00
ML-92-80	8071	0.90	2.50
ML-92-80	8072	1.20	5.00
ML-92-80	8073	1.30	110.00
ML-92-80	8074	1.30	130.00
ML-92-80	8075	1.10	25.00
ML-92-80	8076	0.90	30.00
ML-92-80	8077	0.90	60.00
ML-92-80	8078	1.40	90.00
ML-92-80	8079	1.10	160.00
ML-92-80	8080	1.20	25.00
ML-92-80	8081	1.20	100.00
ML-92-80	8082	1.20	90.00
ML-92-80	8083	1.20	190.00
ML-92-80	8084	1.30	110.00
ML-92-80	8085	1.20	150.00
ML-92-80	8086	0.90	210.00
ML-92-80	8087	1.00	2.50
ML-92-80	8088	1.20	20.00
ML-92-80	8089	1.20	50.00
ML-92-80	8090	1.20	15.00
ML-92-80	8091	1.30	35.00
ML-92-80	8092	0.90	110.00
ML-92-80	8093	1.30	70.00
ML-92-80	8094	0.70	190.00
ML-92-80	8095	1.10	140.00
ML-92-80	8096	1.10	60.00
ML-92-80	8097	1.30	330.00
ML-92-80	8098	1.20	60.00

hid	sample	width	AU
ML-92-80	8099	1.20	55.00
ML-92-80	8100	1.20	50.00
ML-92-80	8101	1.20	90.00
ML-92-80	8102	1.30	210.00
ML-92-80	8103	1.20	110.00
ML-92-80	8104	1.20	20.00
ML-92-80	8105	1.20	30.00
ML-92-80	8823	1.22	35.00
ML-92-80	8824	0.91	35.00
ML-92-80	8825	1.22	10.00
ML-92-80	8106	0.90	3850.00
ML-92-80	8107	1.20	600.00
ML-92-80	8108	1.20	180.00
ML-92-80	8109	1.20	45.00
ML-92-80	8110	1.20	70.00
ML-92-80	8111	1.20	400.00
ML-92-80	8112	1.30	35.00
ML-92-80	8113	1.20	50.00
ML-92-80	8114	1.20	25.00
ML-92-80	8115	1.20	180.00
ML-92-80	8116	0.90	85.00
ML-92-80	8829	1.22	60.00
ML-92-80	8830	1.22	10.00
ML-92-80	8117	1.20	100.00
ML-92-80	8118	1.30	50.00
ML-92-80	8119	1.20	2150.00
ML-92-80	8120	1.20	80.00
ML-92-80	8121	0.20	80.00
ML-92-80	8122	1.00	25.00
ML-92-80	8123	1.20	30.00
ML-92-80	8124	1.20	2.50
ML-92-80	8125	1.20	25.00
ML-92-80	8126	1.20	150.00
ML-92-80	8127	0.60	760.00
ML-92-80	8128	1.30	10.00
ML-92-80	8129	0.60	20.00
ML-92-80	8826	0.91	50.00
ML-92-80	8827	0.91	10.00
ML-92-80	8130	1.20	190.00
ML-92-80	8131	1.20	40.00
ML-92-80	8132	1.00	5.00
ML-92-80	8133	0.90	90.00
ML-92-80	8134	1.20	100.00
ML-92-80	8135	1.20	220.00
ML-92-80	8136	1.30	110.00
ML-92-80	8137	1.20	290.00
ML-92-80	8138	1.20	40.00
ML-92-80	8139	0.90	100.00
ML-92-81	8140	1.30	140.00
ML-92-81	8141	1.20	60.00
ML-92-81	8142	1.20	30.00
ML-92-81	8143	1.20	30.00
ML-92-81	8841	1.22	2.50

hid	sample	width	AU
ML-92-81	8842	0.91	2.50
ML-92-81	8843	1.22	2.50
ML-92-81	8844	1.22	2.50
ML-92-81	8845	1.22	20.00
ML-92-81	8144	1.20	1150.00
ML-92-81	8145	1.20	180.00
ML-92-81	8846	1.37	10.00
ML-92-81	8847	1.37	30.00
ML-92-81	8146	1.20	170.00
ML-92-81	8147	1.20	65.00
ML-92-81	8148	0.60	450.00
ML-92-81	8149	1.30	70.00
ML-92-81	8150	1.20	30.00
ML-92-81	8151	1.20	100.00
ML-92-81	8152	1.20	20.00
ML-92-81	8153	1.20	50.00
ML-92-81	8154	1.30	25.00
ML-92-81	8155	0.60	2.50
ML-92-81	8156	1.00	2.50
ML-92-81	8157	0.90	240.00
ML-92-81	8158	0.90	15.00
ML-92-81	8159	0.90	20.00
ML-92-81	8160	0.60	2.50
ML-92-81	8161	1.20	190.00
ML-92-81	8162	1.20	30.00
ML-92-81	8163	1.30	10.00
ML-92-81	8164	0.60	70.00
ML-92-81	8165	0.90	35.00
ML-92-81	8166	1.10	130.00
ML-92-81	8167	1.00	25.00
ML-92-81	8168	1.20	40.00
ML-92-81	8169	1.00	65.00
ML-92-81	8170	0.90	240.00
ML-92-81	8171	1.00	90.00
ML-92-81	8172	0.90	40.00
ML-92-81	8173	1.20	240.00
ML-92-81	8174	1.20	85.00
ML-92-81	8175	1.00	15.00
ML-92-81	8176	1.50	70.00
ML-92-81	8177	1.20	2250.00
ML-92-81	8178	0.90	20.00
ML-92-81	8179	1.00	220.00
ML-92-81	8848	1.22	35.00
ML-92-81	8849	1.52	130.00
ML-92-81	8180	0.90	80.00
ML-92-81	8181	0.90	200.00
ML-92-81	8182	0.90	65.00
ML-92-81	8183	1.00	30.00
ML-92-81	8184	0.70	50.00
ML-92-81	8185	0.60	45.00
ML-92-81	8186	1.20	20.00
ML-92-81	8850	1.22	100.00

hid	sample	width	AU
ML-92-81	8851	1.52	15.00
ML-92-81	8187	0.90	40.00
ML-92-81	8852	0.91	90.00
ML-92-81	8853	0.91	40.00
ML-92-81	8188	1.20	30.00
ML-92-81	8189	1.00	25.00
ML-92-81	8190	1.00	35.00
ML-92-81	8191	1.10	5.00
ML-92-81	8192	1.20	5.00
ML-92-81	8193	0.90	20.00
ML-92-82	8194	1.20	40.00
ML-92-82	8195	1.00	5.00
ML-92-82	8196	0.70	2.50
ML-92-82	8197	1.20	25.00
ML-92-82	8198	1.30	35.00
ML-92-82	8199	1.30	2.50
ML-92-82	8200	1.30	2.50
ML-92-82	8201	1.20	5.00
ML-92-82	8202	1.20	20.00
ML-92-82	8203	0.90	2.50
ML-92-82	8204	0.90	2.50
ML-92-82	8205	0.60	2.50
ML-92-82	8206	0.90	5.00
ML-92-82	8207	1.20	15.00
ML-92-82	8208	1.20	10.00
ML-92-82	8209	1.00	25.00
ML-92-82	8210	0.60	35.00
ML-92-82	8211	1.20	330.00
ML-92-82	8212	1.20	25.00
ML-92-82	8213	1.20	10.00
ML-92-82	8214	1.20	15.00
ML-92-82	8215	1.20	20.00
ML-92-82	8216	1.20	90.00
ML-92-82	8217	0.90	2.50
ML-92-82	8218	0.60	2850.00
ML-92-82	8219	0.90	20.00
ML-92-82	8854	1.52	35.00
ML-92-82	8855	1.52	2.50
ML-92-82	8220	1.20	2.50
ML-92-82	8221	1.20	80.00
ML-92-82	8222	1.20	30.00
ML-92-82	8856	1.22	20.00
ML-92-82	8857	1.22	10.00
ML-92-82	8858	1.22	60.00
ML-92-82	8859	1.22	20.00
ML-92-82	8860	1.22	90.00
ML-92-82	8861	0.46	110.00
ML-92-82	8223	0.60	21070.00
ML-92-82	8224	0.90	5450.00
ML-92-82	8862	1.07	10.00
ML-92-82	8863	1.22	25.00

hid	sample	width	AU
ML-92-82	8864	1.22	2.50
ML-92-82	8225	0.80	190.00
ML-92-82	8226	0.90	15.00
ML-92-82	8227	1.30	5.00
ML-92-83	8228	0.90	90.00
ML-92-83	8229	1.10	15.00
ML-92-83	8230	0.80	45.00
ML-92-83	8231	1.20	30.00
ML-92-83	8232	1.20	35.00
ML-92-83	8233	1.20	2.50
ML-92-83	8234	1.20	80.00
ML-92-83	8235	1.20	5.00
ML-92-83	8236	1.30	2.50
ML-92-83	8237	0.60	380.00
ML-92-83	8238	1.20	65.00
ML-92-83	8239	0.90	50.00
ML-92-83	8240	0.90	25.00
ML-92-83	8241	1.20	20.00
ML-92-83	8242	0.95	5.00
ML-92-83	8923	0.91	1400.00
ML-92-83	8924	1.22	65.00
ML-92-83	8925	0.61	270.00
ML-92-83	8926	1.22	960.00
ML-92-83	8927	1.19	65.00
ML-92-83	8243	1.22	5.00
ML-92-83	8244	1.22	2.50
ML-92-83	8245	0.91	20.00
ML-92-83	8246	1.22	65.00
ML-92-83	8247	0.91	20.00
ML-92-83	8248	0.91	120.00
ML-92-83	8249	0.91	85.00
ML-92-83	8250	1.22	10.00
ML-92-83	8251	1.22	25.00
ML-92-83	8252	1.22	25.00
ML-92-83	8253	0.61	56507.00
ML-92-83	8254	1.22	95.00
ML-92-83	8255	1.22	35.00
ML-92-83	8256	1.22	15.00
ML-92-83	8257	1.22	60.00
ML-92-83	8258	1.22	30.00
ML-92-83	8259	0.91	100.00
ML-92-83	8260	0.91	190.00
ML-92-83	8261	1.22	10.00
ML-92-83	8262	1.22	2.50
ML-92-83	8263	1.22	70.00
ML-92-83	8264	1.22	25.00
ML-92-83	8928	1.22	45.00
ML-92-83	8929	0.61	600.00
ML-92-83	8930	1.22	280.00
ML-92-83	8931	1.22	130.00
ML-92-83	8932	0.61	300.00

hid	sample	width	AU
ML-92-83	8265	1.50	270.00
ML-92-83	8266	0.91	300.00
ML-92-83	8267	1.22	70.00
ML-92-83	8268	1.22	90.00
ML-92-83	8273	1.22	80.00
ML-92-83	8933	1.22	95.00
ML-92-83	8269	1.18	60.00
ML-92-83	8270	1.26	60.00
ML-92-83	8934	1.22	150.00
ML-92-83	8935	0.91	5.00
ML-92-83	8936	0.91	20.00
ML-92-83	8937	1.22	5.00
ML-92-83	8271	0.89	140.00
ML-92-83	8272	0.91	60.00
ML-92-83	8274	1.22	1050.00
ML-92-83	8275	1.22	100.00
ML-92-83	8276	1.22	35.00
ML-92-83	8277	0.91	110.00
ML-92-83	8278	1.28	10.00
ML-92-83	8279	1.22	40.00
ML-92-83	8280	1.22	100.00
ML-92-83	8281	1.22	50.00
ML-92-83	8282	1.22	80.00
ML-92-83	8283	0.91	70.00
ML-92-83	8284	0.91	70.00
ML-92-83	8285	0.91	25.00
ML-92-83	8286	1.22	1400.00
ML-92-83	8287	1.07	80.00
ML-92-83	8288	1.07	30.00
ML-92-83	8289	0.91	10.00
ML-92-83	8290	1.07	30.00
ML-92-83	8291	1.07	10.00
ML-92-83	8292	1.22	65.00
ML-92-83	8293	0.91	5.00
ML-92-83	8294	0.91	5.00
ML-92-84	8295	1.22	25.00
ML-92-84	8296	0.91	120.00
ML-92-84	8297	0.61	270.00
ML-92-84	8298	0.91	45.00
ML-92-84	8299	1.22	30.00
ML-92-84	8300	1.22	5.00
ML-92-84	8301	1.07	2.50
ML-92-84	8302	1.22	5.00
ML-92-84	8303	1.22	2.50
ML-92-84	8304	1.22	2.50
ML-92-84	8305	0.91	2.50
ML-92-84	8306	1.22	2.50
ML-92-84	8307	1.22	2.50
ML-92-84	8308	0.91	2.50
ML-92-84	8309	1.22	2.50
ML-92-84	8310	0.91	10.00

hid	sample	width	AU
ML-92-84	8311	1.07	2.50
ML-92-84	8312	1.26	2.50
ML-92-84	8938	0.76	130.00
ML-92-84	8313	1.24	2.50
ML-92-84	8939	0.61	20.00
ML-92-84	8944	0.61	10.00
ML-92-84	8940	1.22	2.50
ML-92-84	8941	1.22	2.50
ML-92-84	8942	1.22	2.50
ML-92-84	8943	0.61	2.50
ML-92-84	8314	1.22	2.50
ML-92-84	8315	1.22	2.50
ML-92-84	8316	1.22	2.50
ML-92-84	8317	0.91	230.00
ML-92-84	8318	1.22	55.00
ML-92-84	8319	0.92	1150.00
ML-92-84	8320	1.22	15.00
ML-92-84	8321	1.22	15.00
ML-92-84	8322	1.22	2.50
ML-92-84	8323	1.22	2.50
ML-92-84	8324	1.21	2.50
ML-92-84	8325	1.22	2.50
ML-92-84	8326	1.22	5.00
ML-92-84	8327	1.22	55.00
ML-92-84	8328	1.22	100.00
ML-92-84	8329	1.22	110.00
ML-92-84	8330	1.22	140.00
ML-92-84	8331	1.22	20.00
ML-92-84	8332	1.22	20.00
ML-92-84	8333	1.22	2.50
ML-92-84	8334	1.22	5.00
ML-92-84	8335	1.22	5.00
ML-92-84	8336	1.22	5.00
ML-92-84	8337	1.22	120.00
ML-92-84	8338	1.22	50.00
ML-92-84	8339	1.22	1000.00
ML-92-84	8340	1.22	80.00
ML-92-84	8945	1.22	580.00
ML-92-84	8946	1.22	270.00
ML-92-84	8947	1.22	30.00
ML-92-84	8948	0.91	170.00
ML-92-84	8949	0.61	200.00
ML-92-84	8341	1.22	160.00
ML-92-84	8342	1.22	600.00
ML-92-84	8343	1.22	30.00
ML-92-84	8836	1.22	300.00
ML-92-84	8837	1.22	50.00
ML-92-84	8838	1.22	50.00
ML-92-84	8839	1.22	50.00
ML-92-84	8840	1.22	30.00
ML-92-84	8344	1.37	2100.00
ML-92-84	8345	1.06	20.00

hid	sample	width	AU
ML-92-84	8346	0.92	30.00
ML-92-84	8347	1.22	10.00
ML-92-84	8348	0.92	15.00
ML-92-84	8349	1.22	2.50
ML-92-84	8350	0.92	2.50
ML-92-84	8351	0.91	2.50
ML-92-84	8352	0.92	2.50
ML-92-85	8353	1.20	45.00
ML-92-85	8354	1.20	25.00
ML-92-85	8355	1.20	10.00
ML-92-85	8356	1.20	40.00
ML-92-85	8357	1.30	110.00
ML-92-85	8358	1.20	190.00
ML-92-85	8865	1.07	2.50
ML-92-85	8866	1.22	40.00
ML-92-85	8359	1.20	100.00
ML-92-85	8360	1.30	10.00
ML-92-85	8361	1.40	2.50
ML-92-85	8362	1.20	45.00
ML-92-85	8363	1.20	2.50
ML-92-85	8364	1.20	2.50
ML-92-85	8365	1.20	30.00
ML-92-85	8867	1.22	2.50
ML-92-85	8366	1.20	95.00
ML-92-85	8367	1.20	2.50
ML-92-85	8368	1.30	60.00
ML-92-85	8369	0.60	2.50
ML-92-85	8370	1.20	2.50
ML-92-85	8371	1.20	2.50
ML-92-85	8372	1.20	2.50
ML-92-85	8373	1.20	2.50
ML-92-85	8374	1.30	2.50
ML-92-85	8375	1.20	2.50
ML-92-85	8376	1.20	2.50
ML-92-85	8377	1.30	2.50
ML-92-85	8378	1.20	5.00
ML-92-85	8379	1.40	80.00
ML-92-85	8380	1.20	45.00
ML-92-85	8381	1.20	35.00
ML-92-85	8382	1.20	5.00
ML-92-85	8383	1.40	2.50
ML-92-85	8384	1.20	2.50
ML-92-85	8875	1.22	2.50
ML-92-85	8868	1.07	15.00
ML-92-85	8869	0.91	120.00
ML-92-85	8870	0.30	55.00
ML-92-85	8871	1.22	40.00
ML-92-85	8872	1.22	60.00
ML-92-85	8873	1.22	10.00
ML-92-85	8874	0.61	300.00

APPENDIX III

MULTI-ELEMENT ANALYSIS

APPENDIX III: MULTI-ELEMENT ANALYSIS - ML-92-83

sample	sio2	al2o3	fe2o3	cao	na2o	k2o	tio2	p2o5	loi	total
8232	74.83	11.85	1.85	2.68	4.38	1.78	0.23	0.08	2.63	100.62
8233	73.87	12.07	2.15	2.63	5.61	1.16	0.25	0.06	2.50	100.64
8234	69.47	11.73	3.10	2.78	4.79	1.34	0.27	0.08	3.77	98.49
8235	74.34	12.60	2.15	2.20	5.61	1.04	0.25	0.06	2.31	100.75
8236	65.17	12.09	2.00	1.72	4.99	1.36	0.23	0.04	2.02	89.82
8237	76.12	11.92	2.11	1.83	4.70	1.30	0.24	0.06	2.06	100.54
8238	71.66	12.45	2.02	2.15	5.34	1.22	0.27	0.06	2.16	97.55
8239	74.87	12.17	1.83	2.08	4.49	1.68	0.25	0.04	2.30	99.88
8240	75.31	11.44	1.85	2.04	4.40	1.32	0.24	0.06	2.36	99.24
8241	73.62	11.92	2.18	1.69	3.18	2.16	0.23	0.06	2.71	98.11
8242	68.62	13.48	3.47	3.45	0.20	4.44	0.29	0.10	5.65	100.78
8923	65.52	13.88	3.87	4.00	0.74	4.24	0.28	0.10	5.54	99.30
8924	66.52	14.69	3.57	3.60	1.02	4.18	0.29	0.10	5.29	100.30
8925	67.45	12.17	4.28	2.95	0.20	3.88	0.24	0.08	5.20	97.68
8926	72.47	12.02	2.39	2.47	3.05	2.44	0.24	0.06	3.04	98.58
8927	75.20	12.55	2.15	2.11	3.32	2.38	0.24	0.06	2.47	100.74
8243	72.64	12.27	1.79	2.17	4.20	1.72	0.22	0.04	2.48	97.72
8244	71.87	12.33	2.63	2.14	5.01	1.42	0.26	0.08	2.27	98.21
8245	73.87	12.17	2.26	1.84	4.30	1.60	0.23	0.06	2.20	98.72
8246	69.19	11.74	2.95	1.63	3.20	2.14	0.23	0.06	2.16	93.54
8247	74.61	12.07	2.70	1.89	5.00	1.26	0.25	0.06	2.28	100.31
8248	67.29	11.55	3.27	2.85	3.44	1.94	0.24	0.06	3.31	94.28
8249	72.39	11.44	2.53	2.60	3.43	2.00	0.22	0.04	2.99	97.95
8250	65.26	11.85	1.83	3.65	4.45	1.70	0.24	0.06	3.41	92.66
8251	72.96	12.02	1.90	2.28	4.71	1.46	0.22	0.06	2.32	98.07
8252	70.52	12.00	2.26	3.44	3.99	2.06	0.26	0.06	3.02	97.88
8253	61.92	10.59	9.88	5.14	2.14	2.60	0.20	0.06	4.78	97.87
8254	72.62	12.53	2.15	1.98	3.05	2.62	0.24	0.06	2.38	97.84
8255	74.70	12.12	1.92	2.55	4.47	1.74	0.22	0.04	2.56	100.50
8256	71.37	12.28	2.01	2.98	3.30	2.46	0.22	0.04	3.15	98.11
8257	73.56	12.18	2.58	1.90	3.74	2.10	0.23	0.06	2.24	98.79
8258	72.98	12.26	2.92	2.37	3.93	2.08	0.25	0.06	2.81	99.97
8259	73.73	11.25	2.89	1.68	4.18	1.60	0.20	0.06	2.02	97.82
8260	73.12	11.23	2.63	2.44	3.72	1.76	0.19	0.06	2.76	98.19
8261	73.15	12.21	2.41	2.15	3.90	1.94	0.23	0.06	2.54	98.80
8262	70.67	12.41	2.48	2.36	4.10	2.02	0.27	0.06	2.89	97.62
8263	74.01	11.74	2.77	1.67	3.80	1.98	0.22	0.04	1.99	98.47
8264	69.13	10.15	2.65	2.65	2.70	2.12	0.21	0.06	3.12	93.13
8928	74.00	12.36	3.07	1.39	5.22	1.78	0.24	0.04	1.54	99.81

sample	sio2	al2o3	fe2o3	cao	na2o	k2o	tio2	p2o5	loi	total
8929	74.13	12.33	3.22	1.33	5.17	1.44	0.23	0.04	1.05	99.12
8930	75.41	12.33	3.24	1.14	4.77	2.48	0.23	0.04	1.01	100.82
8931	73.98	12.13	3.45	1.30	4.86	2.54	0.25	0.06	1.11	99.87
8932	73.77	11.89	3.01	1.47	5.13	1.52	0.23	0.04	1.04	98.26
8265	73.28	11.98	3.24	1.27	5.04	1.94	0.24	0.06	1.27	98.48
8266	73.99	11.48	3.17	1.32	5.07	1.14	0.22	0.06	1.53	98.16
8267	73.16	11.79	2.56	1.23	5.20	1.32	0.24	0.06	1.96	97.66
8268	74.25	12.29	3.00	1.24	5.19	1.82	0.23	0.06	1.45	99.68
8273	73.07	11.85	2.61	1.57	4.85	1.74	0.24	0.06	1.52	97.68
8933	75.09	12.23	2.99	1.39	4.94	2.22	0.25	0.06	1.51	100.84
8269	66.72	14.60	2.94	3.24	2.72	3.60	0.29	0.06	3.60	98.16
8270	74.65	12.14	2.48	1.90	5.09	1.60	0.23	0.06	1.84	100.15
8934	74.25	12.38	2.76	1.41	5.01	1.94	0.25	0.04	1.36	99.56
8935	75.07	12.55	3.04	1.36	4.78	2.36	0.25	0.04	1.31	100.94
8936	75.01	12.49	2.98	1.56	4.81	2.02	0.26	0.04	1.26	100.62
8937	75.10	12.26	2.62	1.54	5.35	1.58	0.25	0.04	1.80	100.68
8271	74.14	12.10	2.91	1.58	5.06	1.72	0.25	0.06	1.46	99.41
8272	74.65	12.12	3.26	1.65	5.21	1.32	0.27	0.06	1.65	100.58
8274	73.49	11.86	2.96	1.66	4.56	1.40	0.25	0.06	1.06	97.55
8275	72.89	12.29	2.97	1.40	5.10	1.40	0.25	0.06	1.04	97.60
8276	72.85	11.33	2.66	1.87	4.89	1.20	0.24	0.04	2.36	97.71
8277	75.69	12.21	2.80	1.38	4.87	1.30	0.25	0.04	1.16	99.92



Personal information collected on this form is obtained under the authority of the Access to Information Act. This collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 100 College Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- 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) BHP MINERALS CANADA LTD.	Client No. 108137
Address P.O. BOX 1953 569 MONETA AVENUE, TIMMINS, ONTARIO P4N 7X1	Telephone No. 705-264-7221
Mining Division PATRICIA	Township/Area McVICAR LAKE
M or G Plan No. G2121	
Dates Work Performed From: MAY 31, 1992	To: JUNE 27, 1992

Work Performed (Check One Work Group Only)

Work Group	
Geotechnical Survey	
Physical Work, Including Drilling	DIAMOND DRILLING (W20 PDRILL)
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

ONTARIO GEOLOGICAL SURVEY
Type GIS - ASSESSMENT FILES
JAN X X 1993
RECEIVED
DIVISION
RECORDED
P. I. 03

Total Assessment Work Claimed on the Attached Statement of Costs \$ **131,783.00**

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
R.G. BONNER (AUTHOR)	569 MONETA AVENUE, TIMMINS, ONTARIO P4N 7X1
LANGLEY DRILLING	49 JAYFIELD ROAD, BRAMPTON, ONTARIO L6S 3G3

(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)

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 after its completion and annexed report is true.		
Name and Address of Person Certifying R.G. BONNER, 569 MONETA AVENUE, TIMMINS, ONTARIO P4N 7X1		
Telephone No. 705-264-7221	Date DECEMBER 04, 1992	Certified By (Signature) R.G. BONNER, P. Geol.

For Office Use Only

Total Value Cr. Recorded \$ 131,783	Date Recorded 93 JAN 19	Mining Recorder R. Mayes	Received Stamp RECEIVED DEC 16 1992 PATRICIA MINING DIVISION
	Deemed Approval Date 93 APR 19	Date Approved 93 APR 19	
	Date Notice for Amendments Sent		



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

W 9330 - 00001

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, 4^e 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	7,000	
	Field Supervision Supervision sur le terrain	2,000	9,000
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type DRILLING	98,501	
	ANALYTICAL	8,858	
			107,359
Supplies Used Fournitures utilisées	Type DRILL MATERIALS	6,450	
	FUEL	543	
	DRAFTING	490	
			7,483
Equipment Rental Location de matériel	Type COMPUTER	406	
			406
Total Direct Costs Total des coûts directs			124,248

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	550	
	FREIGHT	425	
			975
Food and Lodging Nourriture et hébergement		2,360	2,360
Mobilization and Demobilization Mobilisation et démobilisation		4,200	4,200
Sub Total of Indirect Costs Total partiel des coûts indirects			7,535
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			7,535
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			131,783
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			

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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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 N/A	Total Assessment Claimed
	$\times 0.50 =$

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 I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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	Evaluation totale demandée
$\times 0.50 =$	

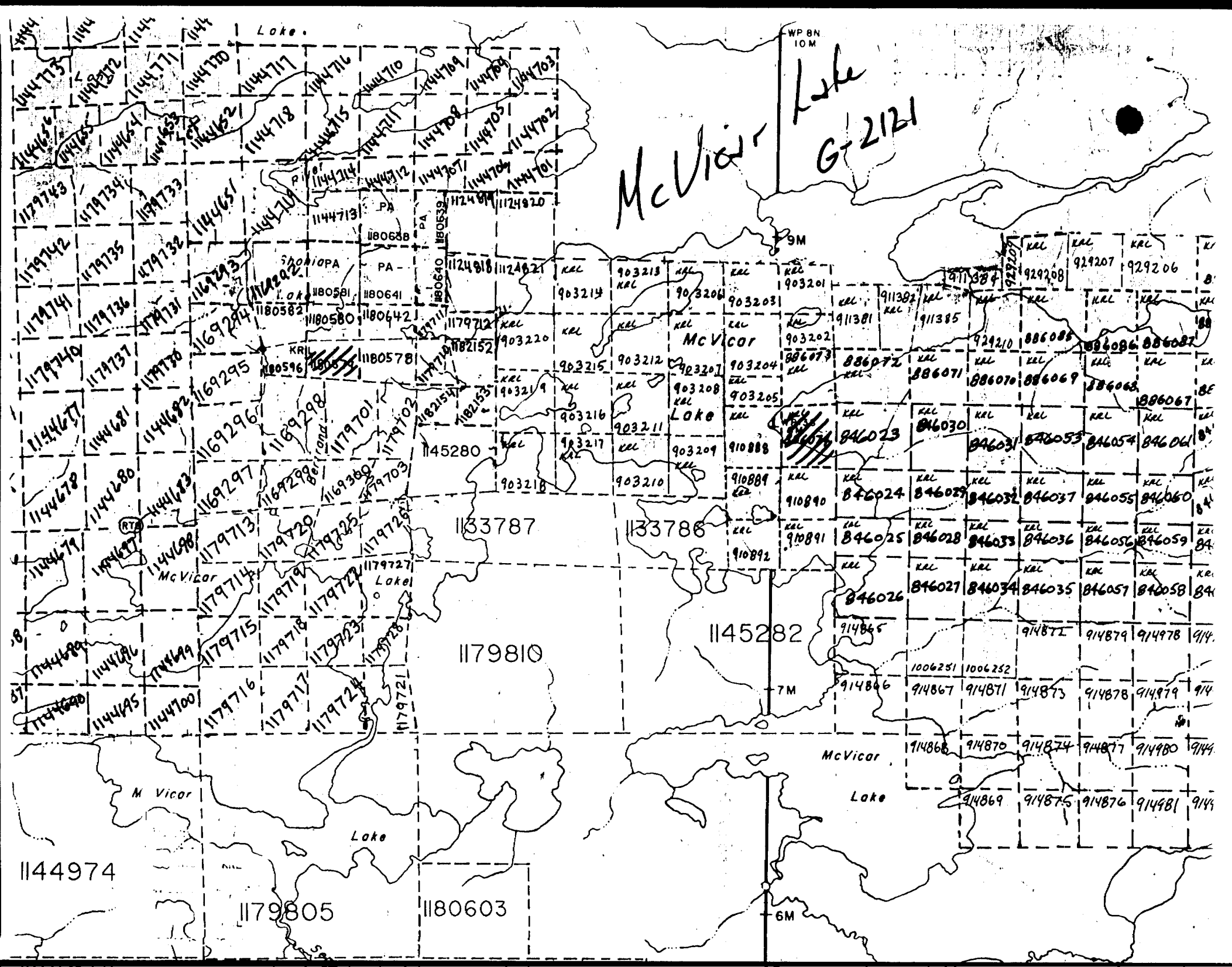
Attestation de l'état des coûts

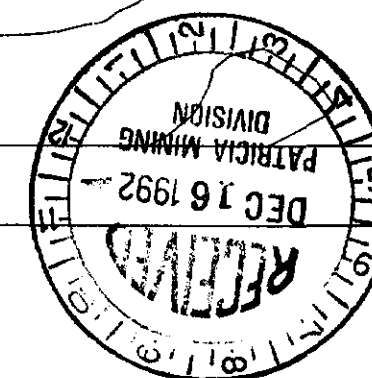
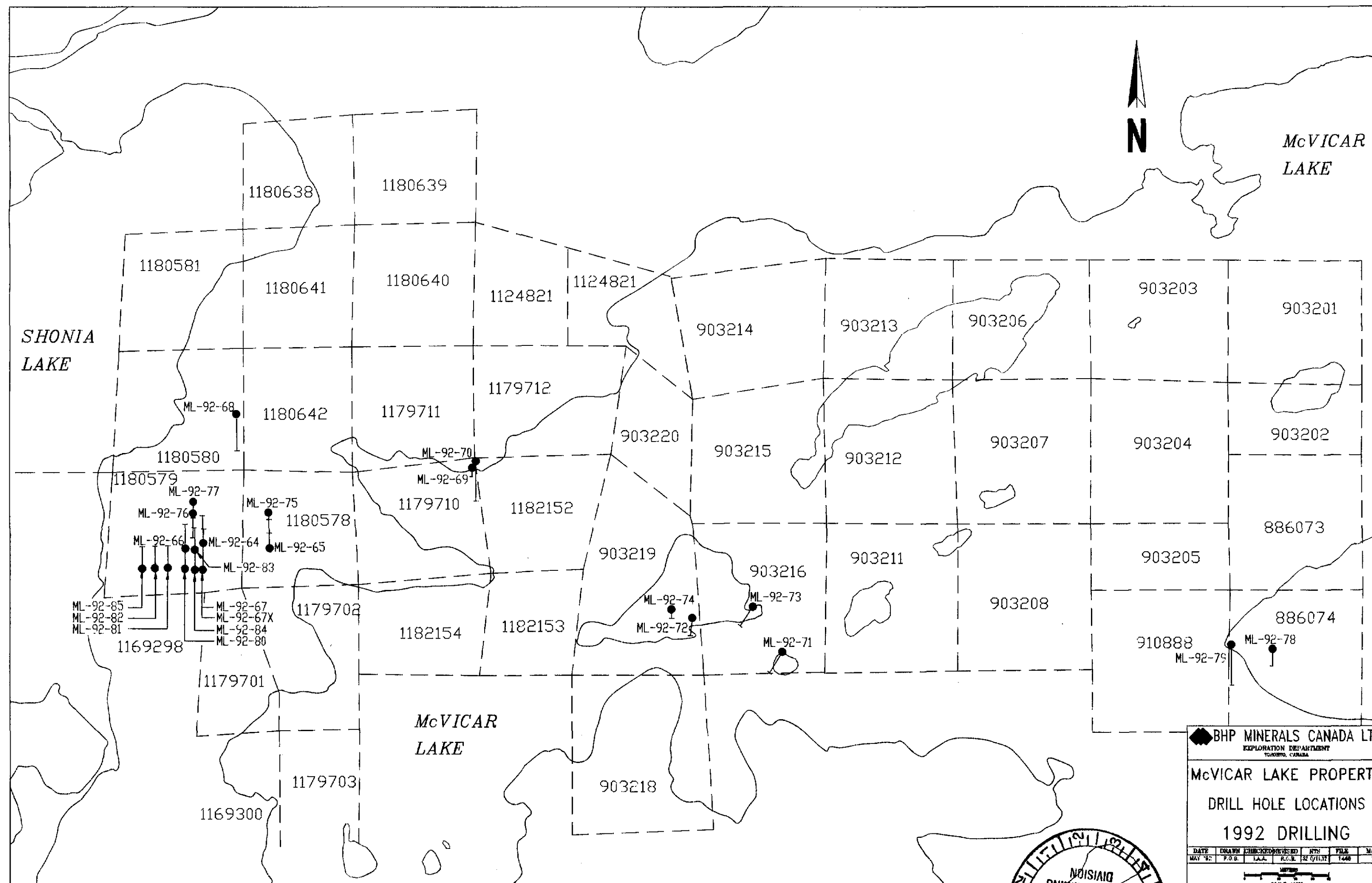
J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation

Signature R. G. Bonner Date _____
R.G. Bonner, P.Geol. December 04, 1992

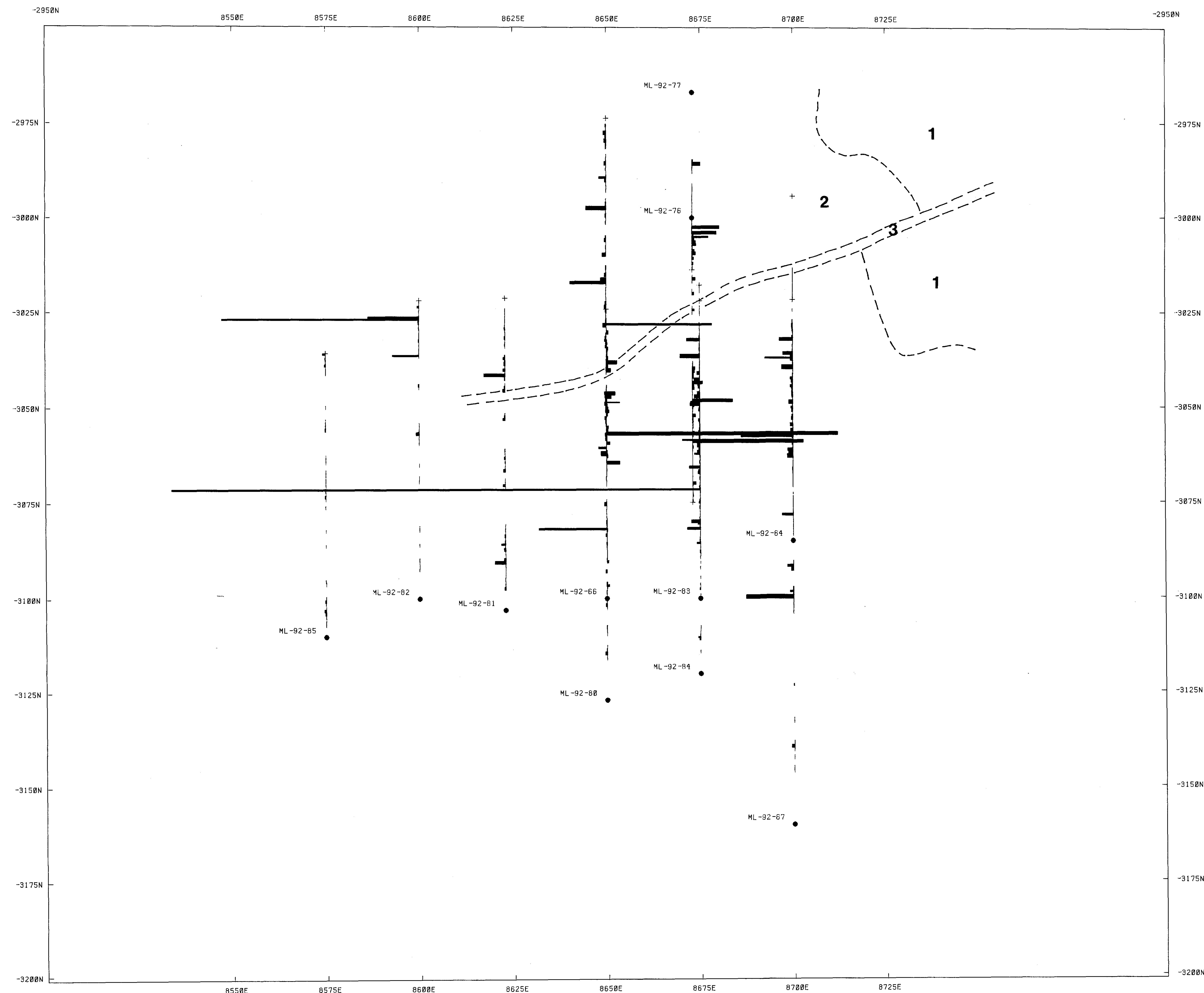




52011SW9310 40 McVICAR LAKE



200

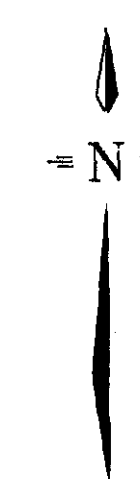


LEGEND

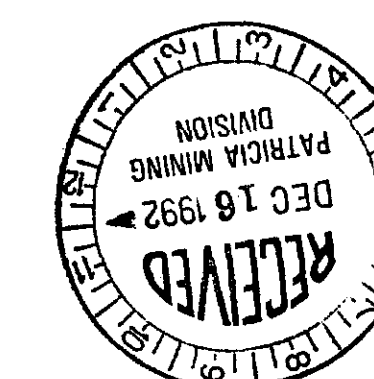
- SURFACE ASSAY
- CORE ASSAY

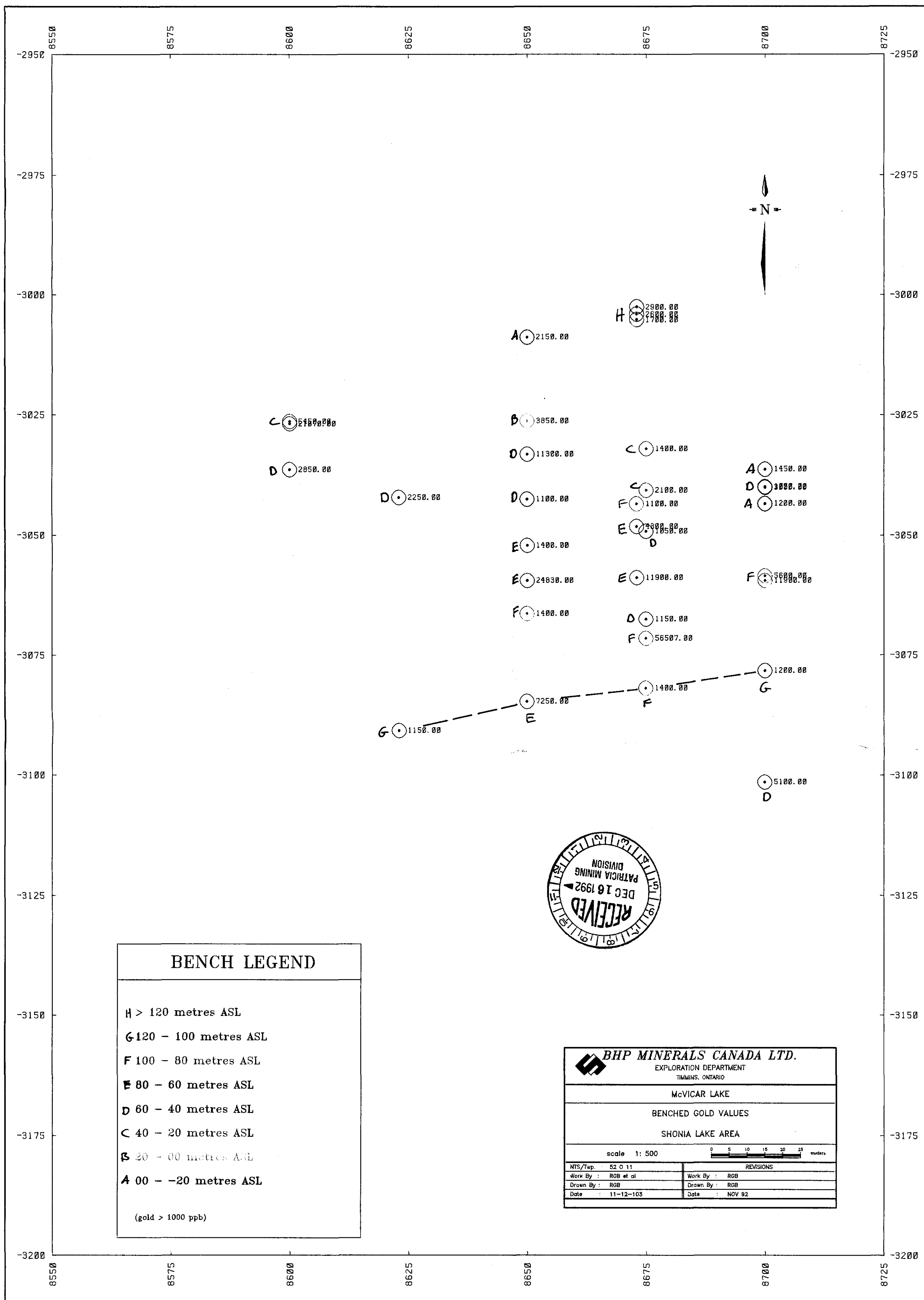
(1cm = 500 ppb Gold)

- 3 — Mafic dyke
- 2 — Tonalite
- 1 — Gabbro



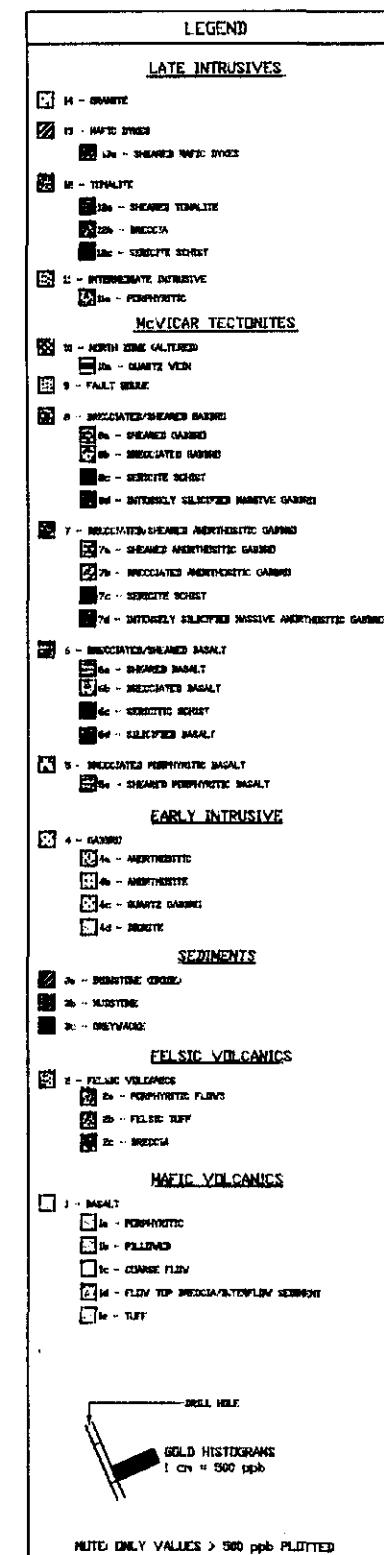
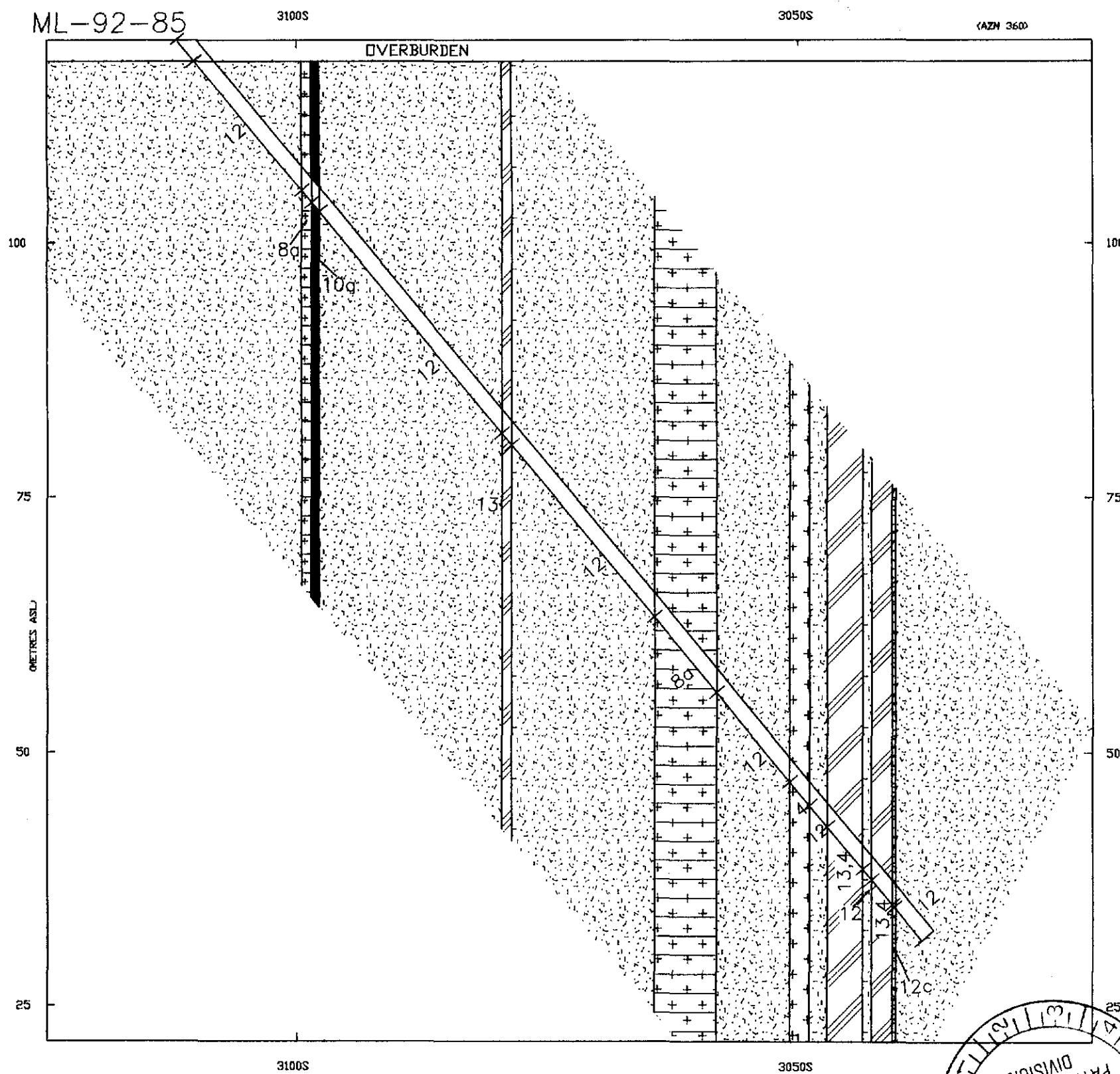
BHP MINERALS CANADA LTD. EXPLORATION DEPARTMENT TIMMINS, ONTARIO	
McVicar Lake	
DIAMOND DRILL PLAN AND GOLD ASSAYS	
SHONIA LAKE AREA	
1: 500	
NTS/Twp: 52 O 11 Work By: RGB Drawn By: RGB Date: TIME.3	REVISIONS Work By: RGB Drawn By: RGB Date: OCT 92





520115W9310 40 McVICAR LAKE

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SHONIA #1 OCCURRENCE

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO, CANADA

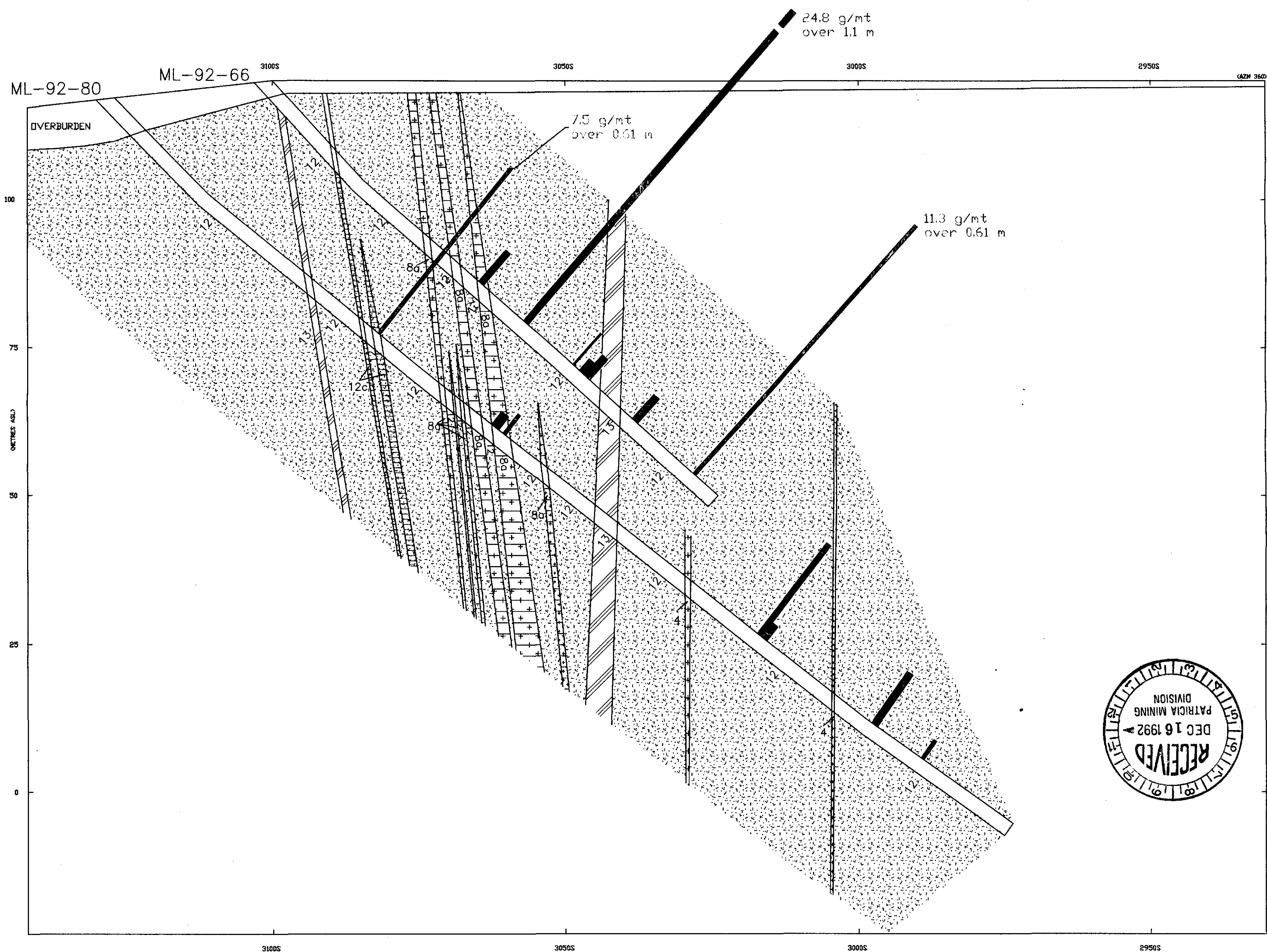
McVICAR LAKE PROPERTY
SECTION L 8575
GEOLOGY, AU
DDH ML-92-85

DATE	DRAWN	CHECKED	REVISED	INTS	FILE	MAP
DEC 16 1992						

1:500 METRES



520115W9310 40 McVICAR LAKE



LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 13 - MAFIC DYKES
 - 13a - SHEARED MAFIC DYKES
- 12 - TONALITE
 - 12a - SHEARED TONALITE
 - 12b - BRECCIA
 - 12c - SERICITE SCHIST
- 11 - INTERMEDIATE INTRUSIVE
 - 11a - PORPHYRITIC

McVICAR TECTONITES

- 10 - NORTH ZONE (ALTERED)
 - 10a - QUARTZ VEIN
- 9 - FAULT GOUGE
- 8 - BRECCIATED/SHEARED GABBRO
 - 8a - SHEARED GABBRO
 - 8b - BRECCIATED GABBRO
 - 8c - SERICITE SCHIST
 - 8d - INTENSELY SILICIFIED MASSIVE GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
 - 7a - SHEARED ANORTHOSITIC GABBRO
 - 7b - BRECCIATED ANORTHOSITIC GABBRO
 - 7c - SERICITE SCHIST
 - 7d - INTENSELY SILICIFIED MASSIVE ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
 - 6a - SHEARED BASALT
 - 6b - BRECCIATED BASALT
 - 6c - SERICITE SCHIST
 - 6d - SILICIFIED BASALT
- 5 - BRECCIATED PORPHYRITIC BASALT
 - 5a - SHEARED PORPHYRITIC BASALT

EARLY INTRUSIVE

- 4 - GABBRO
 - 4a - ANORTHOSITIC
 - 4b - ANORTHOSITE
 - 4c - QUARTZ GABBRO
 - 4d - DIORITE

SEDIMENTS

- 3a - IRONSTONE (OXIDIZED)
- 3b - MUDSTONE
- 3c - GREYWACKE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS
 - 2a - PORPHYRITIC FLOWS
 - 2b - FELSIC TUFF
 - 2c - BRECCIA

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - FLOWED
 - 1c - COARSE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT
 - 1e - TUFF

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 500 ppb

NOTE: ONLY VALUES > 500 ppb PLOTTED

SHONIA #1 OCCURRENCE

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO, CANADA

McVICAR LAKE PROPERTY
SECTION L 8650
GEOLOGY, AU
DDH ML-92-66,80

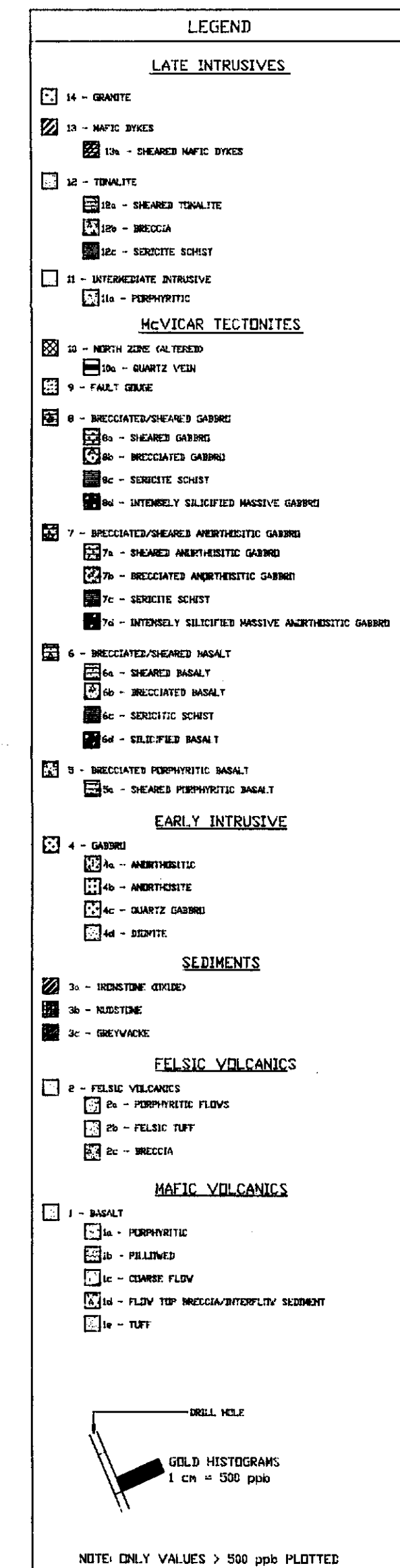
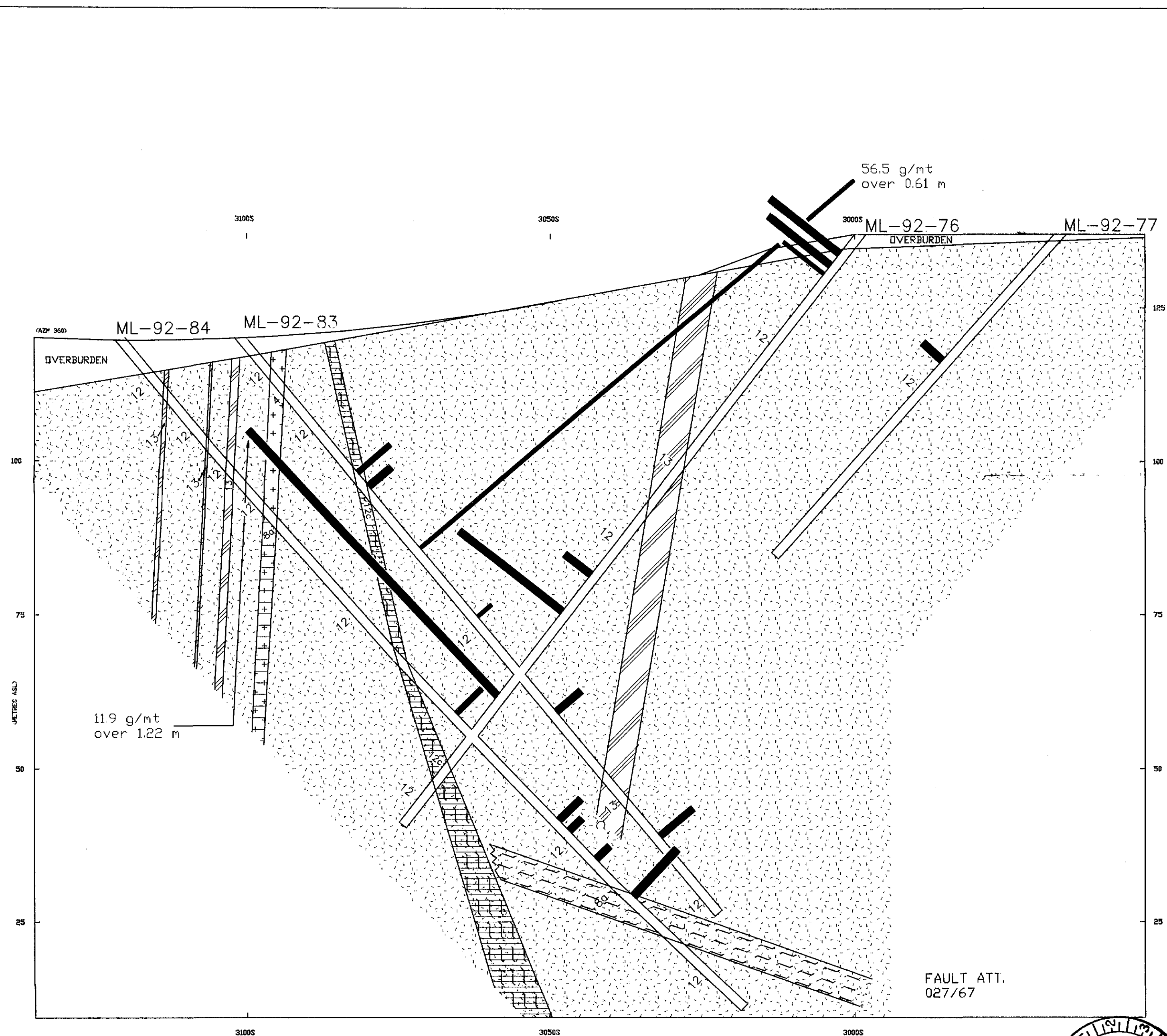
DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
SEPT. 92	R.G.B.			82 0/11	1448	1 of 1

1:500 - METRES

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520115W9310 48 McVICAR LAKE



SHONIA #1 OCCURRENCE

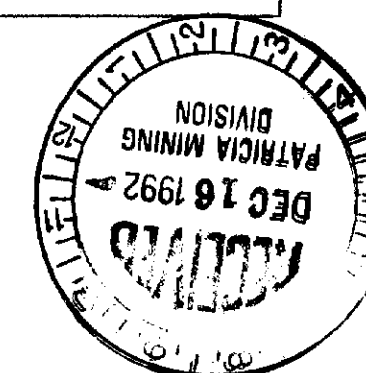
BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO, CANADA

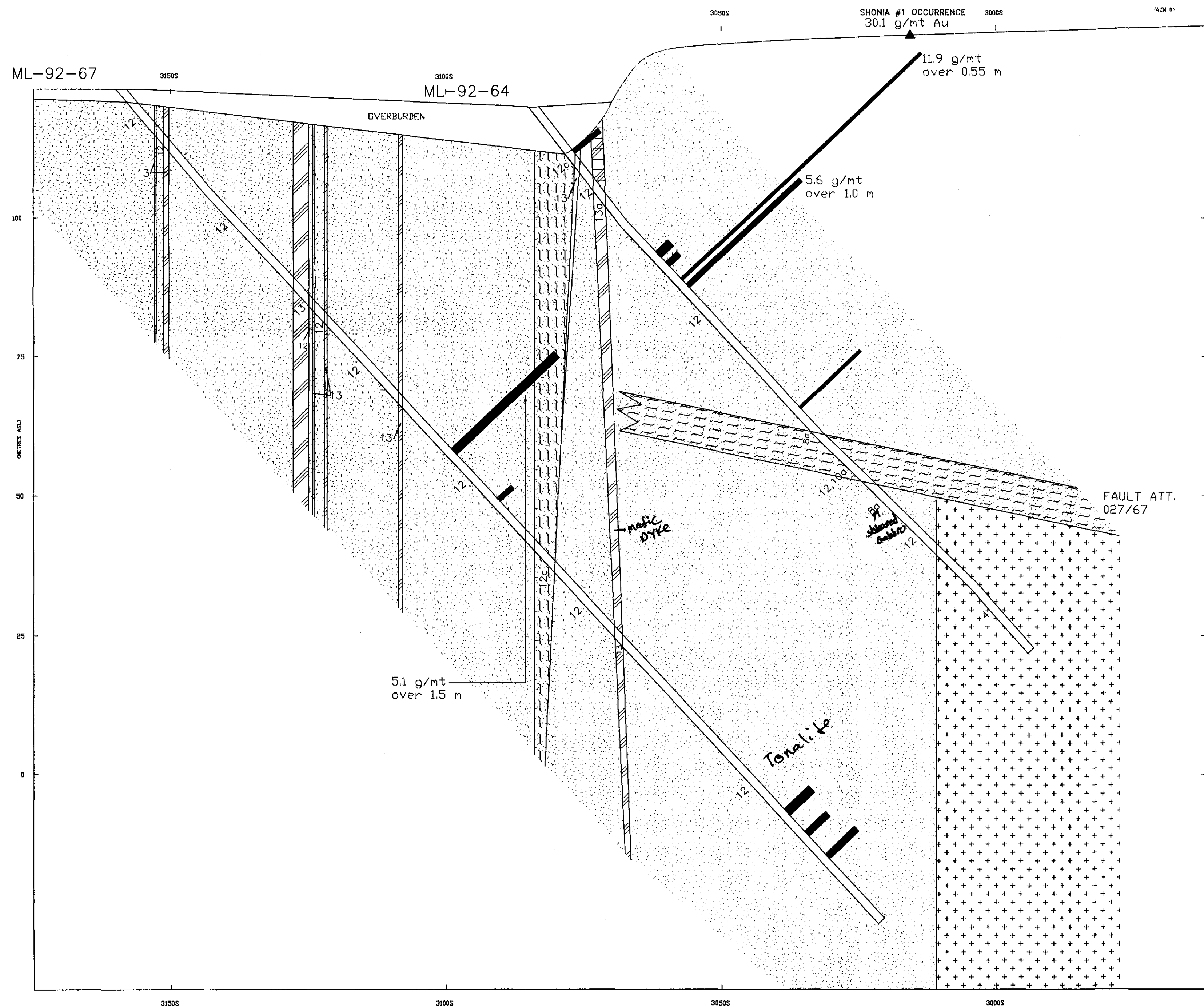
McVICAR LAKE PROPERTY
SECTION L 8675
GEOLOGY, AU
DDH ML-92-76,77,83,84

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
SEP 18 1992	R.G.B.			1:500	1446	07

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SHONIA #1 OCCURRENCE



BHP MINERALS CANADA LTD.	
EXPLORATION DEPARTMENT	
TOWNSHIP: PATRICIA MINING	
SECTION: L 8700	
GEOLOGY: AU	
DDH: ML-92-64, 67	
DATE: 12/16/92	BY: [Signature]
SCALE: 1:5000	UNIT: METRES

