



52O11SW0006 OM92-008 McVICAR LAKE

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**REPORT OF
FIELD ACTIVITIES
McVICAR LAKE PROPERTY
(1446)**

AN OMIP SPONSORED PROGRAM

by

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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.

During the period June 1 - September 1, 1992 geological mapping was completed between the west shore of Shonia Lake and the east shore of Sor Lake. This program was designed to locate and extend the Altered Zone Structure into the Sor Lake area and to delineate any areas of structural dilation and/or mineralization.

Geologically the area is underlain by Archean basaltic flows with minor felsic flows and tuff-breccia correlated with the Meen-Jackknife Formation. These lithologies are in contact with a late gabbroic intrusive also of Archean age. Late regional deformation defined the sheared basalt-gabbro contact thus establishing the Altered Zone Structure. All lithologies have been metamorphosed to greenschist facies.

Both the mapping and soil surveys failed to locate the Altered Zone Structure to the west of Shonia Lake. However, follow-up airborne magnetic imaging has discovered a cross-cutting feature extending westward from the Shonia #1 gold occurrence. This feature is further south than the expected projection of the AZS and cross-cuts the grid entirely within overburden covered areas.

Detailed work at the White Zone, Cabin Zone, and the Fairservice Zone did not generate any significant gold assays. Nevertheless the structural capacity for hosting gold is demonstrated by open space development and the focused alteration at the Cabin Zone. At the Cabin Zone, the felsic units are significantly tectonized and altered (iron carbonate and apple green mica) a result of the rheologic contrast.

A tonalitic sill at Sor Lake (the "Sor Lake Sill") is highly anomalous with respect to gold. Half of the sixteen grab samples collected report anomalous values (>100 ppb) up to 6300 ppb gold. Furthermore, the western edge of this sill is in contact with the Bearhead Fault Zone locally featuring apple green alteration.

CONCLUSIONS AND RECOMMENDATIONS

1. Airborne magnetic imaging of the Shonia Lake area confirm the extension of the Altered Zone Structure to the west of Shonia Lake. Moreover, the "serpent like" nature of the magnetic trace suggest a shallow dip similar to the AZS east of Shonia Lake. This four kilometre section of the AZS is not explored.

2. A second magnetic feature, identified on the west shore of Shonia Lake, is coincident with apple green alteration and sericite schist at a mafic-felsic contact. This target has the magnetic characteristics of a dilation zone. A recommendation to diamond drill this target is deferred pending the completion of the ground geophysical surveys.

3. Ground magnetic and IP surveys are also recommended west of Shonia Lake. The AZS has a distinctive magnetic signature and ground follow-up will locate and define areas of interest. The IP survey will exploit the previously established AZS sulphide-gold relationship. Together, these surveys will define drill targets.

4. Historically, on the McVicar Lake property, pyrite mineralization and apple green alteration are two essential components for economic gold intersections. The discovery of apple green alteration within the Bearhead Fault Zone at Sor Lake coupled with the pyritic mineralization in a tectonized tonalitic sill is significant. Ground geophysical surveys (IP, Mag, VLF) are recommended in the Sor Lake area. The widespread disseminated mineralization associated with the tonalitic sill make it an excellent candidate for polarising techniques. In particular, the intersection of the sill and the Bearhead Fault Zone present an opportunity to focus gold mineralization in a rheologic trap.

5. Soil surveys west of Shonia Lake are an inappropriate exploration technique. The materials available for sampling do not appear to be amenable to gold concentration.

6. A limited re-evaluation of the Lang Lake data on the projected west continuation of the AZS is recommended. Disrupted iron formations occur on strike with the projection.



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PRELIMINARY REPORT OF FIELD ACTIVITIES

McVICAR LAKE, ONTARIO (1446)

GENERAL INFORMATION

1.1 Introduction

This report addresses the exploration field efforts of BHP MINERALS CANADA LTD. during the period of June 1 to September 1, 1992. The McVicar Lake Property is located within the Patricia Mining Division in northwestern Ontario (NTS 52 O/11 and O/12). The property comprises 384 contiguous mining claims (7,936 hectares). A list of claims receiving work (this report) is available in Appendix IV.

1.2 Location and Access

This property is located approximately 80 kilometres (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 based in Pickle Lake.

1.3 Topography and Vegetation

The topography is generally flat lying and the area is 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 sandy ridges.

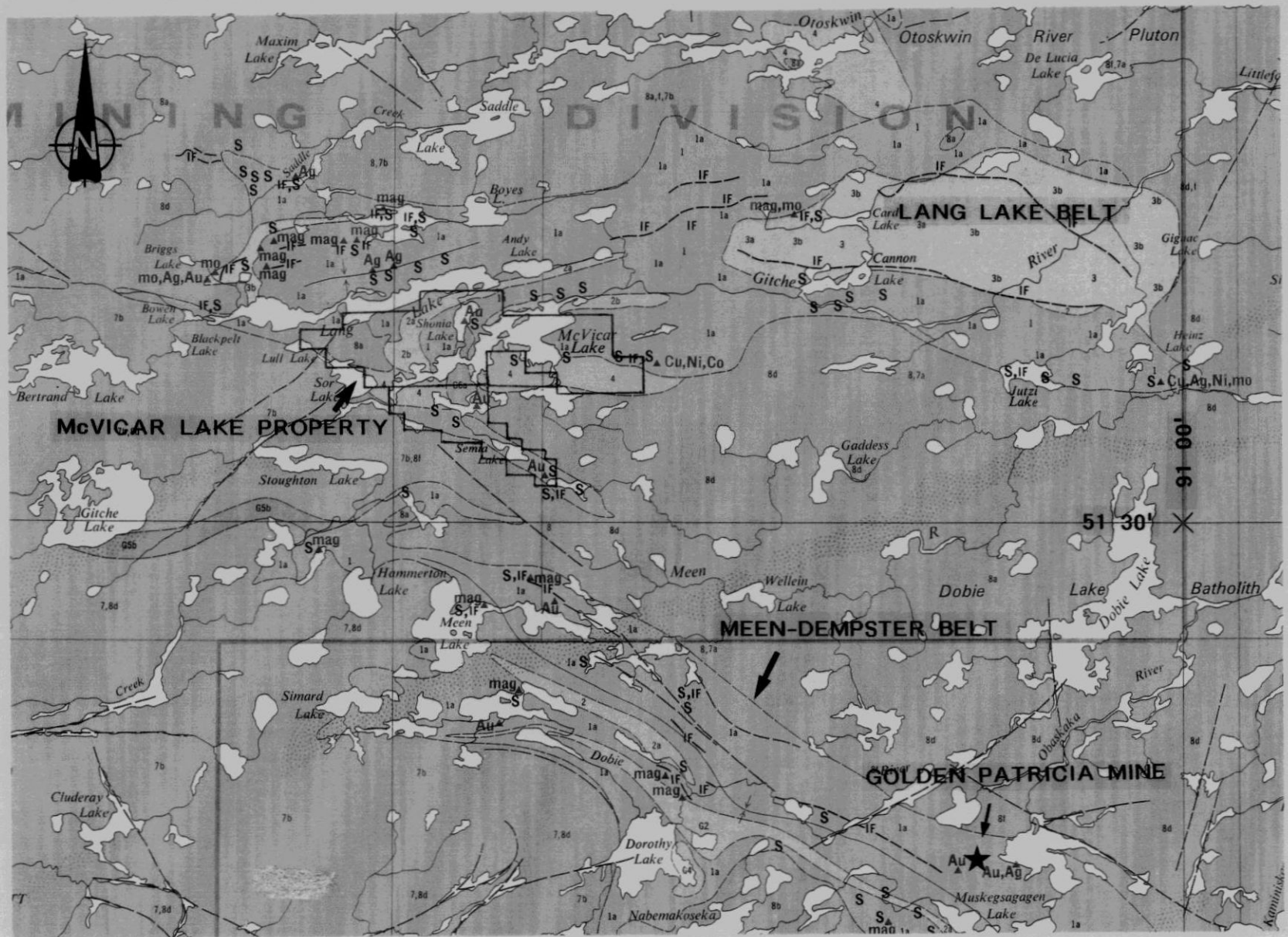


Figure 1.2a: Location Map (from Sage and Breaks, 1982)

1.4 Previous Work By BHP MINERALS CANADA LTD.

Previous to September 1992 BHP Minerals completed several phases of diamond drilling with an approximate aggregate footage of 31,000 feet in 85 drill holes. The drilling was complimented by geological, geophysical and geochemical surveys. These explorations have continued since 1984.

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

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

1.5 Current Exploration Objectives

The objectives of the 1992 field geological program were to locate the western extension of the auriferous Altered Zone Structure in the area between Lull Lake and Shonia Lake. This work is designed to define specific areas for diamond drill follow-up.

GEOLOGY

2.1 Regional Geology

The Lang Lake Greenstone Belt, approximately 40x10 km wide, lies within the Uchi Subprovince of the Superior Structural Province (Figure 1.2a). This relatively small belt was tectonically detached from the Meen-Dempster Belt, lying to the south (Sage and Breaks, 1982).

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

Structurally, the southern margin of the Lang Belt is in contact with the Bearhead Fault Zone (BHFZ) (Osmani, I.A., 1989). This NW-SE trending mega-structure is recognised over a 500 km length from the Manitoba border area where it represents a geological subprovince boundary (Berens River-Sachigo). The Bearhead Fault apparently disappears some 60 km to the SE of the McVicar Lake property within the northern margin of the Meen-Dempster Belt.

2.2 Local Geology

The McVicar Lake Property is underlain by Archean supracrustal volcanics correlatable with the Meen-Jackknife Lake Cycle of Stott and Wallace (1984). Massive to pillowed basaltic and andesitic flows are overlain by felsic pyroclastics and sediments. Large cross-cutting gabbroic intrusives are in turn cross-cut by smaller tonalitic bodies. Detailed lithological descriptions are included in Appendix III.

The major structural feature on the McVicar Lake property is a cross-cutting WNW-ESE fault (the Altered Zone Structure). This fault is characterised by intense alteration and deformation of a brittle-ductile nature. The associated alteration features increased sericite, carbonate, chlorite, and silica (vein quartz and a local pervasive silica flooding). A hydrothermal carbonate (calcium and/or iron) breccia commonly envelops this shallow dipping (<50°) structure. Also of significance is the intrusion of a tonalite sill into the Altered Zone structure at Shonia Lake. This sill is physically linked to a larger stock on the southern grid area. A second separate sill is recognised in the Sor Lake area.

The metamorphic grade is greenschist. Weak to intensely developed foliations are known to occur away from the Altered Zone Structure in association with chloritic and sericitic lithologies.

Table 2.2a: STRATIGRAPHIC COLUMN - McVICAR LAKE PROPERTY

AGE	GROUP	LITHOLOGY
		Mafic sills
	-----INTRUSIVE-----	
		Tonalite plutons, Granite plutons
	-----INTRUSIVE-----	
		Altered Zone, North Flexure, brecciated basalt, brecciated gabbro, fault gouge
	-----TECTONISM-----	
		Dobie Lake Batholith
	-----INTRUSIVE-----	
ARCHEAN		Gabbro, anorthositic gabbro
	-----INTRUSIVE-----	
	Billett Lake	Greywacke, mudstone, ironstone
	-----UNCONFORMITY-----	
	Meen-Jacknife Lake	Basalt, porphyritic basalt, dacite tuff, dacite tuff-breccia

[Modified after Thomas (1988), Stott and Wallace (1984),
Sage and Breaks (1982)]

RESULTS

A number of areas were examined in detail; the Shonia Lake grid south of the Shonia #1 occurrence, the White Zone, the Cabin Zone, and the Fairservice Zone (Lang-Belore Occurrence). Figure 3.0a locates each area on the property. These areas were geologically mapped and prospected and where warranted hydraulic stripping and channel sampling were also completed.

Geological mapping (1:5000) illustrates a large west facing open fold in the area lying between Shonia Lake and Sor Lake. Furthermore, contact relationships at the Cabin Zone and the airborne magnetic imaging suggest the south limb folds back to the west under McVicar Lake thus describing a broad "S" fold. This south closure is interrupted by a gabbro intrusive extending to the east. Geological Plan Maps 1 and 2 summarised the field work and establish contact relationships.

All anomalous gold (>100 ppb) assays reported from this field work are tabulated in Table 3.0b (n=18), a complete report of the analytical results has been included in Appendix I (n=160).

Table 3.0b: ANOMALOUS GOLD SAMPLES - McVICAR LAKE 1992

<u>SAMPLE</u>	<u>LINE</u>	<u>PICKET</u>	<u>GOLD(ppb)</u>	<u>AREA</u>
1055	8540	-3360	1100	Shonia Grid
1062	8400	-3750	560	Shonia Grid
1091	3040	-2810	300	Lang Area
1120	3600	-4500	730	Sor Sill
1122	3900	-4525	120	Sor Sill
2029	8675	-3017	190	Shonia Grid
2030	8670	-3034	190	Shonia Grid
2032	8560	-3380	230	Shonia Grid
2035	8575	-3395	180	Shonia Grid
2038	8595	-3380	120	Shonia Grid
2042	4875	-4550	160	Sor Sill
3171	4685	-4630	180	Sor Sill
3178	4790	-4625	910	Sor Sill
3180	4020	-4625	850	Sor Sill
3181	4070	-4525	730	Sor Sill
3183	4215	-4625	160	Sor Sill
3191	4597	-4520	6300	Sor Sill
9001	8615	-1795	130	Lang Area

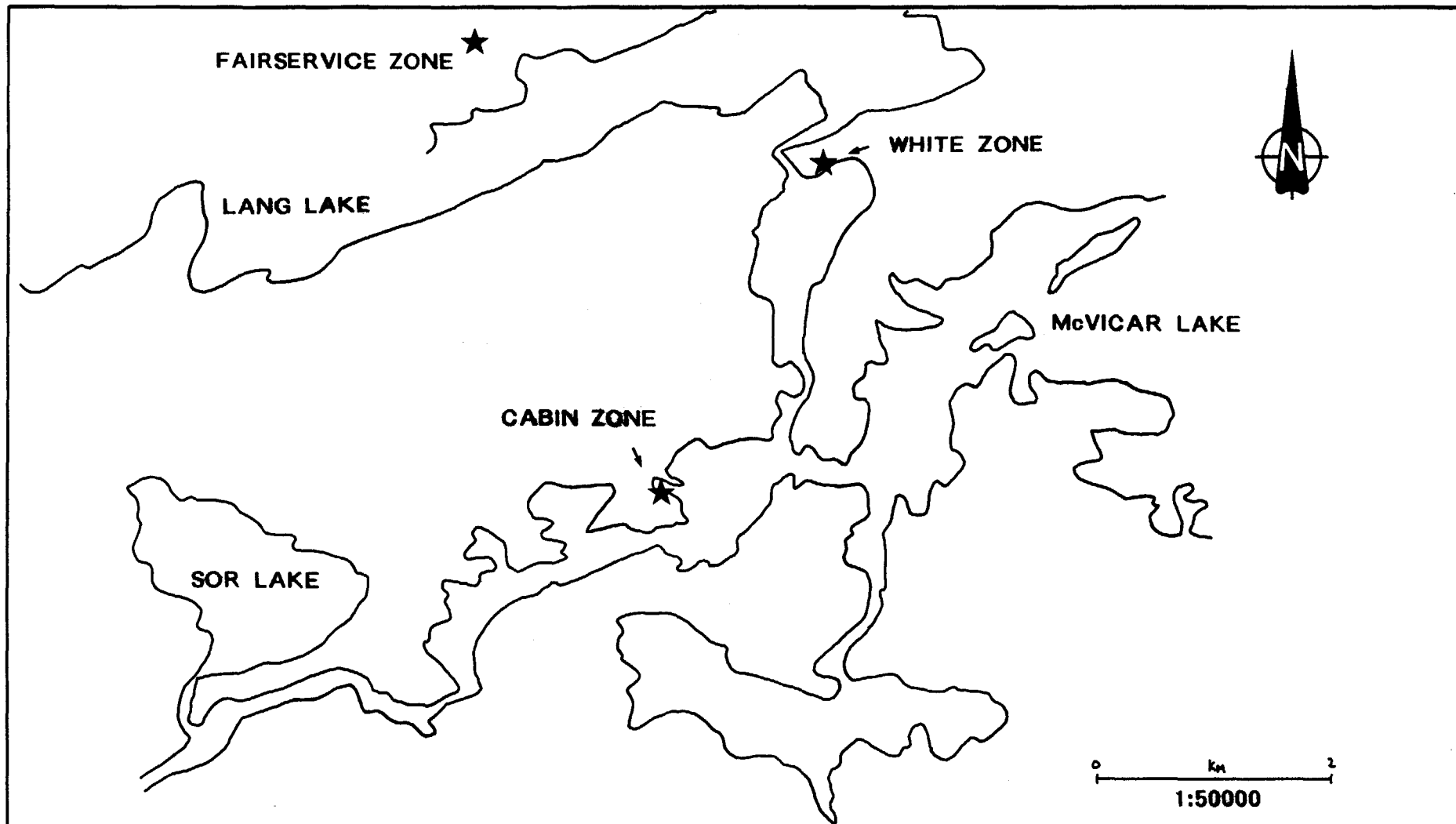


FIGURE 3.0a: DETAIL LOCATION MAP

Each sample was analysed by Accurassay Laboratories Ltd in Thunder Bay employing a standard fire assay technique (30 gram aliquot - 1 assay ton). Samples reporting gold values in excess of 1000 ppb gold were subsequently analysed using a free gold technique.

3.1 White Zone

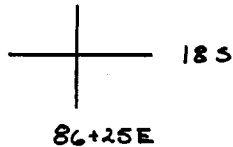
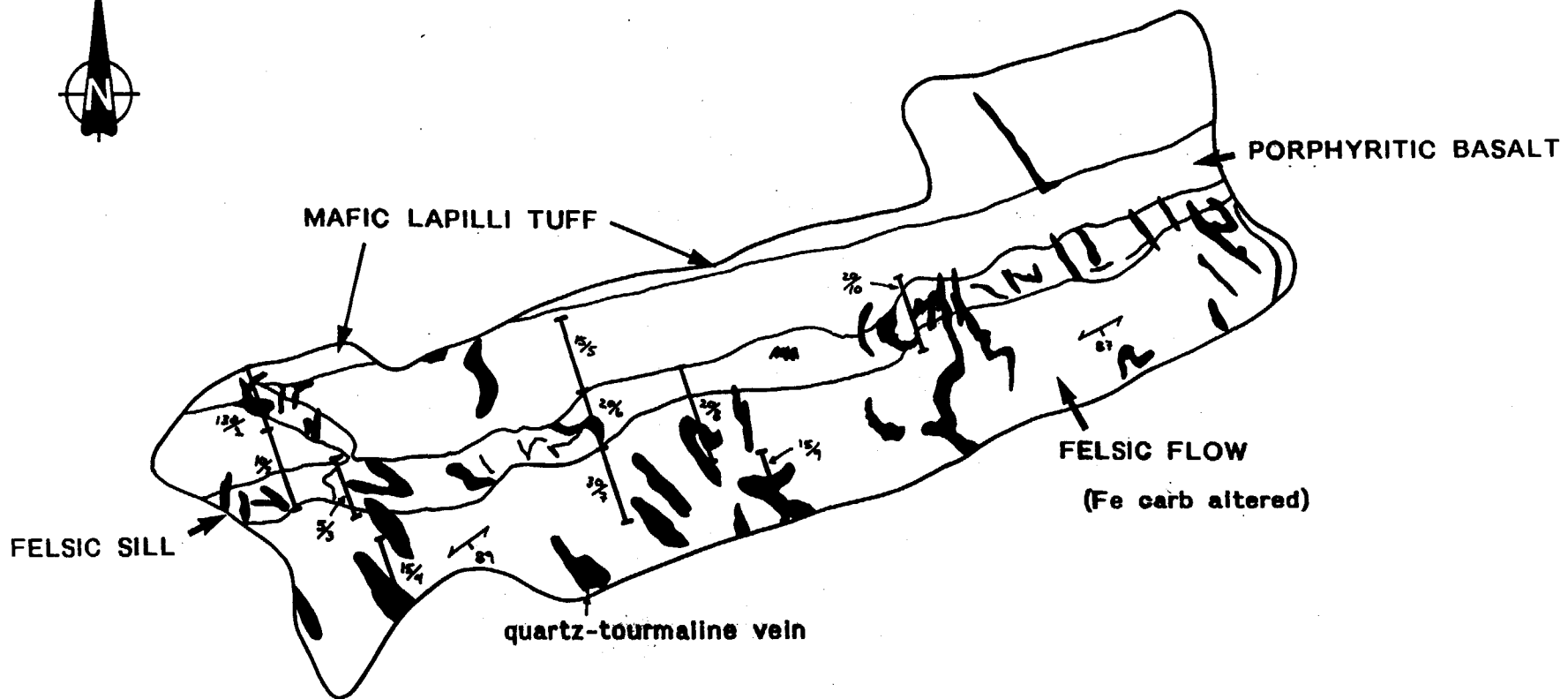
Stripping on the north shore of Shonia Lake (Figure 3.0a) exposed a sheared mafic-felsic contact with iron carbonate alteration and quartz-tourmaline veining. A detailed geology map is presented in Figure 3.1a.

A thin rhyolite sill, on the mafic-felsic contact, is intensely deformed with numerous gash veins. Oriented quartz-tourmaline growth identifies extensional development predominately in the felsic units, the rheologic host. Moderate to intense pervasive iron carbonate alteration accompanies the sill and the sheared felsic flow. This alteration appears to be less prominent in the mafic units.

Ten channel samples tested the various lithologies and alterations (veining and iron carbonate). The highest gold assay reported is 130 ppb gold from a quartz vein with minor pyrite (sample #9001).

3.2 Cabin Zone

A detailed program to rationalize an unusual occurrence of scattered apple green altered volcanic breccia fragments lead to the discovery of a major east-west shear zone. The detail work on the shear zone subsequently recognized massive iron carbonate filled tension gashes with minor apple green mica and pyrite mineralization. A detailed geology map and alteration overlay are provided in Figure 3.2a.

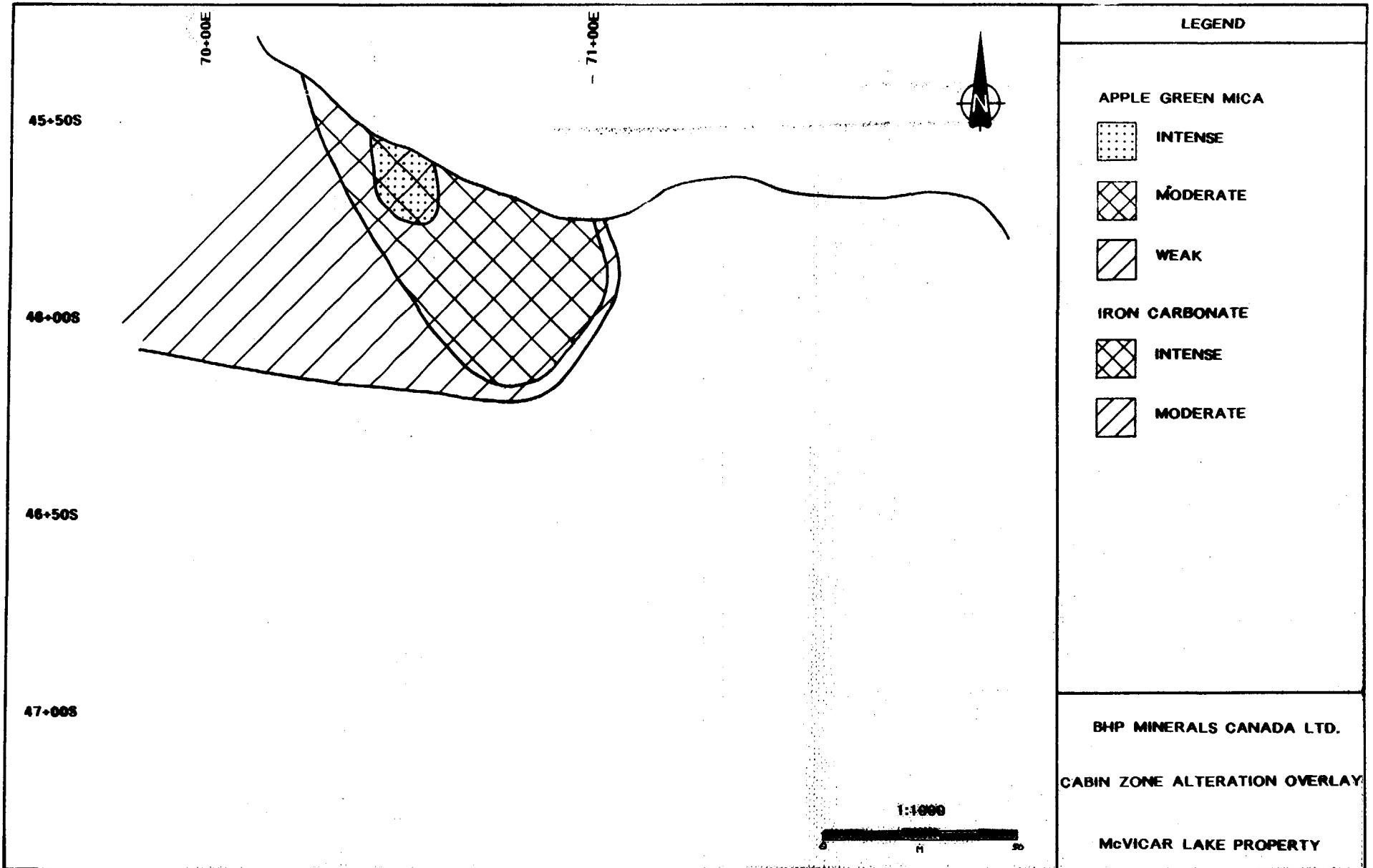


$\frac{130}{1}$ - gold (ppb)/sample #

WHITE ZONE TRENCH

Figure 3.1a

1:100



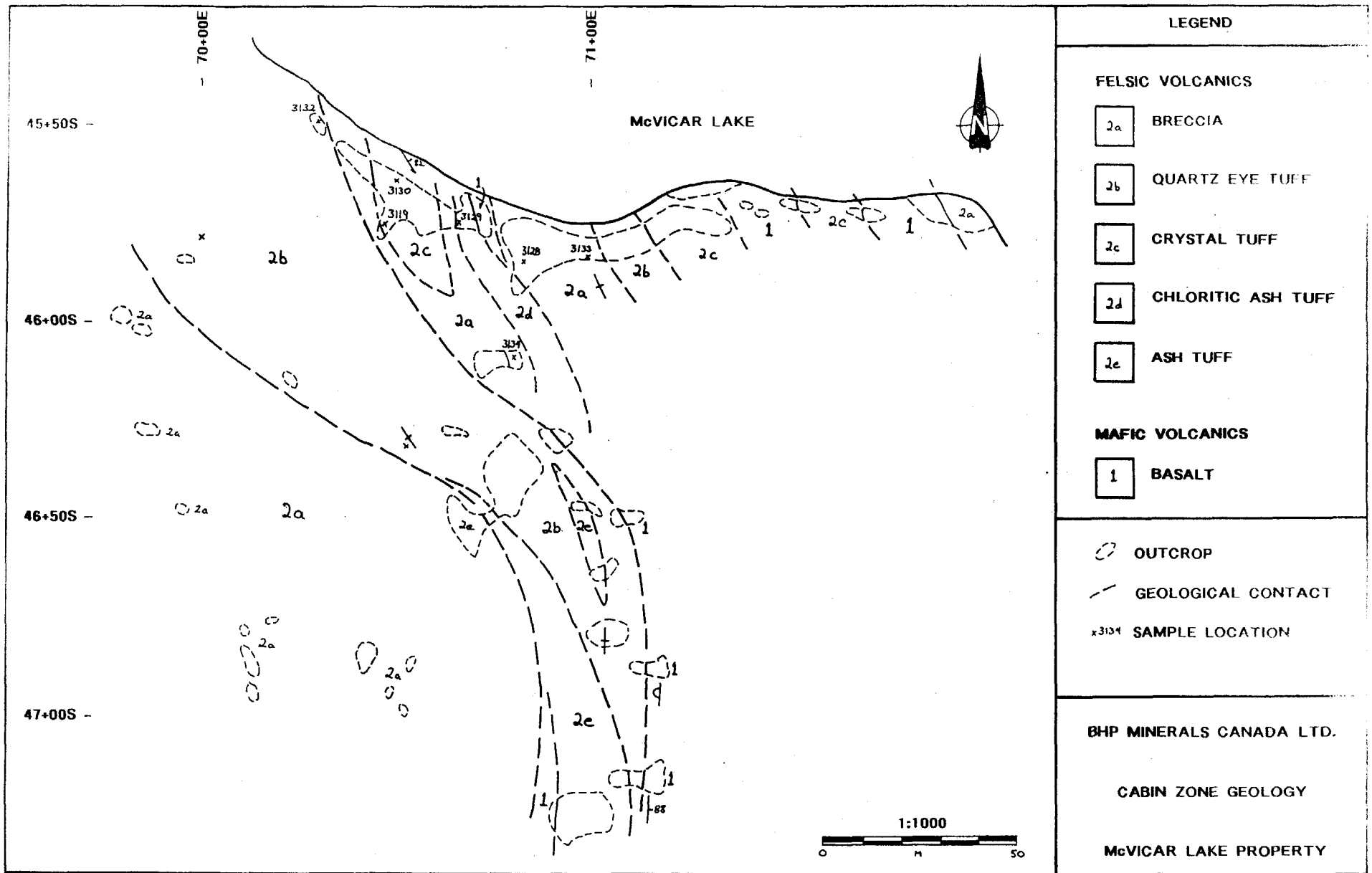


Figure 3.2a: Cabin Zone

Detailed mapping has established geological contacts within a complex felsic pyroclastic package trending north-south. Stratigraphic top is to the west based on an exposure of a mafic flow top breccia developed from a pillowed flow. The brittle felsic volcanics are cross-cut by an east-west shear responsible for the iron carbonate filled gashes.

Seven, one metre chip samples were selected for gold analysis. This representative suite tested the alteration effect on the various lithologies. Gold values were all less than detection.

3.3 Fairservice Zone (Lang-Belore Occurrence)

Gold values in excess of 14 g/mt were reported from a weakly mineralized shear zone at the Fairservice Zone (Janes et al, 1990). A detailed geology and sample location map is presented in Figure 3.3a.

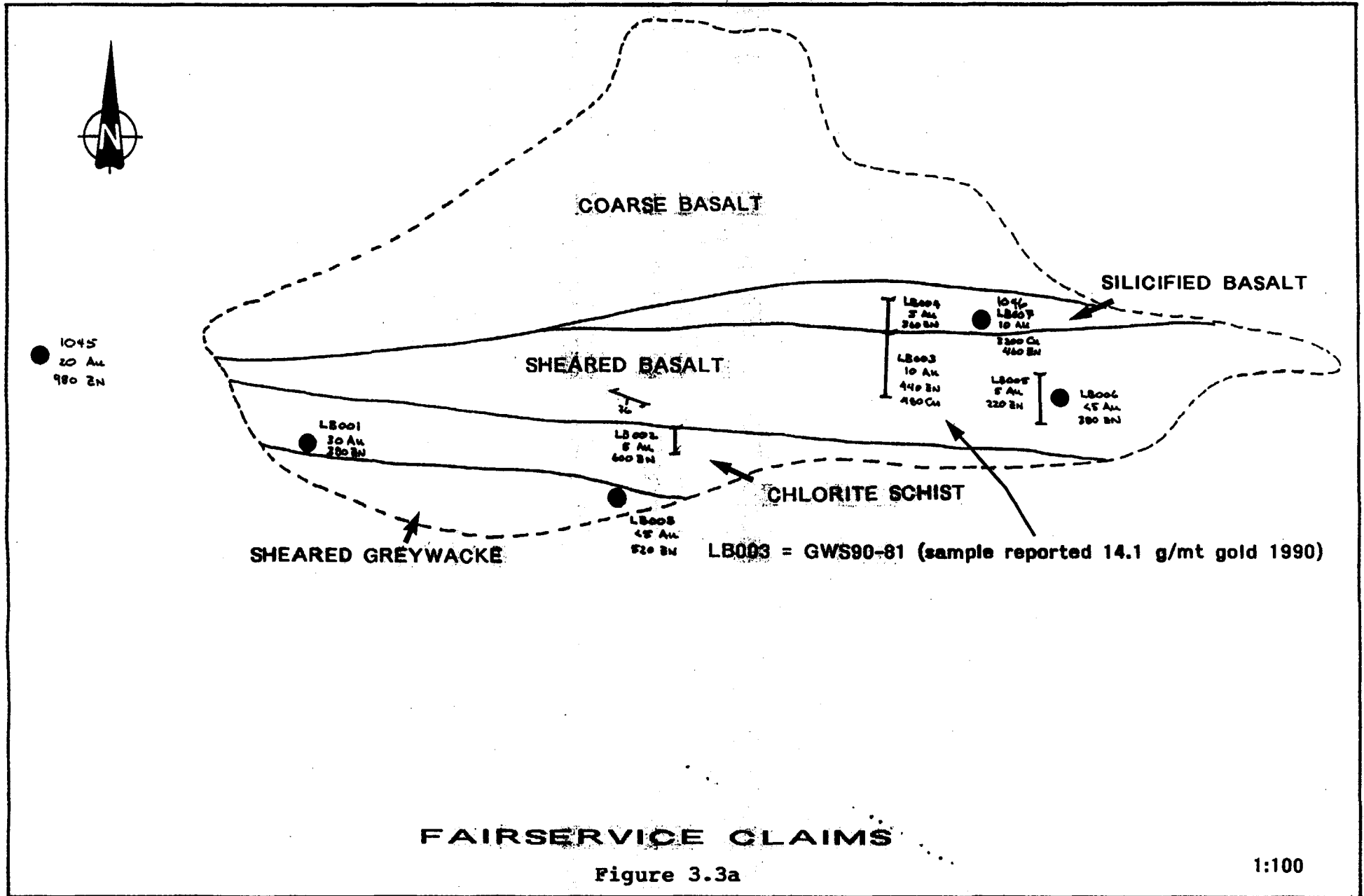
A sheared volcanic-sediment contact is characterised by minor quartz veining and disseminated pyrite. A coarse grained basalt lies to the north grading into the silicified contact zone.

Nine samples (chip and grab) were selected for gold analysis. The highest gold value reported is 30 ppb from a chloritic schist with scattered quartz-pyrite veinlets. Chip sample (LB003), reporting 10 ppb gold, is believed to be the channel sample responsible for the 14 gram reference.

3.4 Sor Lake Area

Mapping to the immediate northeast of Sor Lake located a mineralized tonalitic sill. Mineralization is disseminated pyrite and quartz pyrite veinlets associated with shatter breccia zones. Plan map 2 (sheet C) locates the sill and sample sites.

Sixteen grab samples reported up to 6300 ppb gold (sample 3191), however, eight samples report values in excess of 100 ppb (see Table 3.0a).



3.5 Soil Geochemistry

Three areas were selected for detailed soil investigation. Humus was the preferred sample medium based on its ability to concentrate gold and the ease of sampling.

Dried samples were prepared by Assayers Laboratories in Rouyn-Noranda, Quebec. All samples (n=472) were analysed for gold utilising a neutron activation technique. Sample locations and results are presented on Plan Map 3. A tabulated Report of Analysis is included for reference in Appendix II.

The highest gold value reported is 10 ppb. Only ten samples reported the detection level or better. There are no significant anomalies or clusters.

DISCUSSION

Previous exploration by BHP Minerals, extending back to 1984, has successfully extended the Altered Zone Structure from its discovery point on the east shore of McVicar Lake into the Shonia Lake area. To date, the most significant features recognised are the Shonia Lake #1 gold occurrence and the two dilation points; the Altered Zone and the North Flexure. Along its known length the AZS is anomalous with respect to gold.

Geological mapping and geochemical sampling to the west of Shonia Lake failed to locate the west extension of the Altered Zone Structure. The only evidence of the structures existence is the previously known apple green altered anorthositic gabbro on the west shore of Shonia Lake. However, following the field work detailed analysis of the airborne magnetic survey indicates an extensive "serpent like" east-west trending structure continues from the Shonia #1 into the Lang Lake area. Two very small outcrops of sheared basalt, near a gabbro contact and on strike from the Shonia #1 gold occurrence, were located on the surface trace of the AZS. Plate 4.1a highlights the AZS using an overlay image of shadow and colour magnetics.

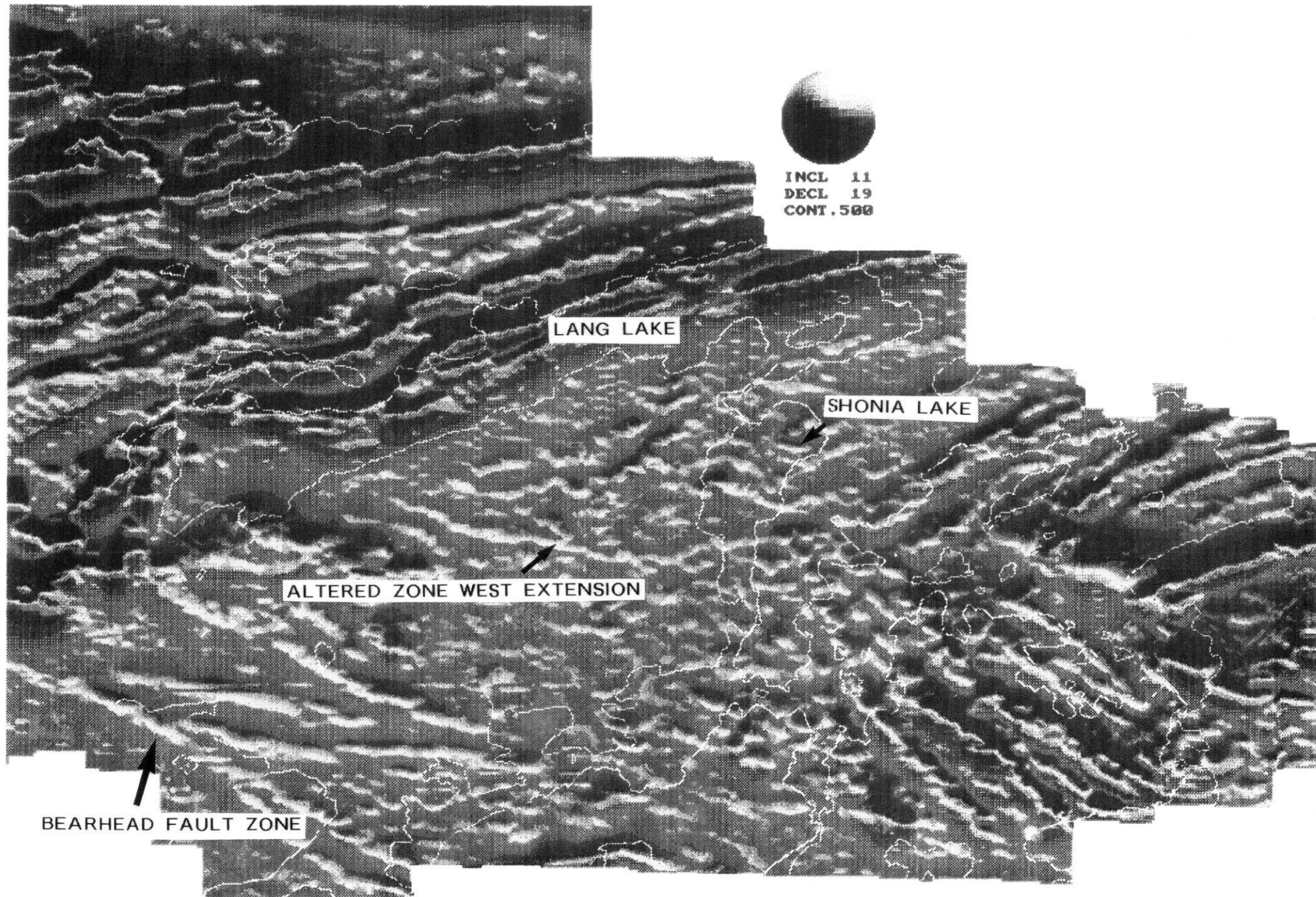


FIG 4.1a: AIRBORNE MAGNETIC IMAGE (MAG-YG/MAG-YG)

1:50000

The area west of Shonia Lake is primarily underlain by intermediate to felsic volcanics. Tuffs, coarse pyroclastics, and flows are subsequently intruded by gabbro and intermediate porphyritic sills. In the few areas of reasonable exposure, the bedrock comprises numerous thin interbedded units thus demonstrating the high degree of interpretive risk in areas of poor exposure. However, the change from predominately mafic to predominately felsic lithologies is expected to have a profound effect on any cross-cutting structures. Evidence of the expected change is observed at the Cabin Zone where "hard" felsic pyroclastics are torn apart by a cross-cutting shear thus generating large gashes. At the Cabin Zone the gashes are filled with iron carbonate. On the magnetic image (Plate 4.1a), the AZS does cross from mafic to felsic units. The transition from a strong blue shadowed fault trace to a weak blue shadowed trace marks this crossing.

The Bearhead Fault Zone was located in the Sor Lake area by a combination of geology and airborne geophysics. Trending northwest-southeast, the structure appears to cutoff the auriferous Sor Lake tonalitic sill (6.3 g/mt gold). Wide spread mineralization within the sill features disseminated pyrite accompanied by quartz-pyrite veinlets as shatter breccia filling. The intersection of the sill and BHFZ lies beneath Sor Lake as indicated on the magnetic image. The combined presence of mineralization within the sill, proximity of the BHFZ, and the presence of apple green alteration within the BHFZ (along strike - both directions) suggest a good potential for gold deposition in a structural trap.

Soil geochemistry is of limited value on the McVicar Lake property. Significant sampling problems were encountered in the low lying areas as a result of the extremely thick peat horizons. Conversely, the higher areas are also impaired by the limited organic cover and predominance of sand. The sampling problems are reflected in the consistently poor analytical results.

Previously, our drill efforts were directed at the dilation points to the east of McVicar Lake and the brittle veins at Shonia Lake. This program of mapping and sampling attempted to extend the gold bearing structures west of Shonia Lake proper. Limited bedrock exposure and a complex sample media have hindered this program significantly. However, structural information obtained from the airborne magnetic database suggest that the main structural target does extend westward. Additionally, observed cross-cutting deformation and open space development within the felsic units away from the areas of interest is considered significant in a property context. Similar open space development within the felsic units can be expected on the AZS extension.

The difficulties experienced in extending the structure to the west should not deter exploration nor prevent follow-up along the auriferous Altered Zone Structure. Similarly, the discovery of gold bearing quartz-pyrite veinlets grading up to 6,300 ppb in a tectonized tonalitic sill associated with the Bearhead Fault Zone also require follow-up. Continued exploration is warranted.

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APPENDIX I

REPORT OF ANALYSIS - McVICAR LAKE 1992

Appendix I - REPORT OF ANALYSIS - McVICAR LAKE 1992

SAMPLE	LINE	PICKET	GOLD (PPB)
1033	8500	-1860	20.0
1035	8620	-1770	20.0
1040	9500	-1925	2.5
1045	5410	-340	20.0
1046	5435	-350	20.0
1053	8620	-1770	2.5
1054	8530	-3375	2.5
1055	8540	-3360	1100.0
1062	8400	-3750	560.0
1063	8350	-3800	2.5
1064	7700	-1900	2.5
1066	7500	-2250	2.5
1070	2400	1275	2.5
1071	2400	1175	2.5
1073	1200	2275	2.5
1074	2800	1325	2.5
1075	UTM61400	571400	5.0
1076	UTM61400	571400	20.0
1089	3040	-2810	55.0
1090	3040	-2810	50.0
1091	3040	-2810	300.0
1093	3150	-2970	2.5
1095	6600	-3825	2.5
1096	6625	-3150	2.5
1097	6625	-3150	2.5
1098	6600	-2825	2.5
1099	6650	-2025	2.5
1101	6200	-3625	2.5
1102	6200	-3250	2.5
1103	6200	-2450	2.5
1104	6100	-3400	2.5
1105	6100	-3515	2.5
1106	6100	-3750	2.5
1107	5800	-4575	2.5
1110	5750	-2850	2.5
1112	5225	-5095	2.5
1113	5225	-5095	2.5
1114	5200	-3775	5.0
1115	5200	-3750	2.5

SAMPLE	LINE	PICKET	GOLD (PPB)
1116	5100	-3175	2.5
1117	3615	-2760	2.5
1118	3600	-4385	20.0
1119	3600	-4385	20.0
1120	3600	-4500	730.0
1121	3800	-4325	90.0
1122	3900	-4525	120.0
1123	8400	-3750	20.0
2026	8720	-3030	2.5
2027	8710	-3022	2.5
2028	8675	-3007	35.0
2029	8675	-3017	190.0
2030	8670	-3034	190.0
2031	8668	-3007	75.0
2032	8560	-3380	230.0
2033	8565	-3385	5.0
2034	8567	-3390	50.0
2035	8575	-3395	180.0
2036	8576	-3396	65.0
2037	8590	-3380	40.0
2038	8595	-3380	120.0
2039	8595	-3370	5.0
2042	4875	-4550	160.0
3063	8565	-4125	10.0
3064	8565	-4125	5.0
3077	7150	-4500	2.5
3079	7107	-4715	2.5
3080	7090	-4600	10.0
3081	7090	-4572	2.5
3082	7085	-4575	2.5
3083	7083	-4575	2.5
3084	7085	-4570	2.5
3085	7080	-4575	2.5
3086	7090	-4572	10.0
3087	7920	-2150	2.5
3088	7920	-2150	2.5
3089	7895	-1955	2.5
3090	7615	-1950	2.5
3092	7400	-1355	5.0
3093	7220	-2400	2.5
3094	2000	1090	80.0

SAMPLE	LINE	PICKET	GOLD (PPB)
3096	1020	1300	20.0
3097	1030	1300	55.0
3128	7085	-4585	2.5
3129	7065	-4575	2.5
3130	7050	-4565	2.5
3131	7045	-4575	2.5
3132	7030	-4550	2.5
3133	7095	-4585	2.5
3134	7080	-4610	2.5
3137	6295	-2310	2.5
3138	6295	-2310	2.5
3140	5895	-4770	2.5
3141	5910	-4750	2.5
3143	5890	-3925	2.5
3145	6025	-3550	2.5
3146	7050	-4565	2.5
3147	7050	-4565	2.5
3148	5390	-4860	2.5
3149	5400	-4760	10.0
3150	5415	-2725	2.5
3152	5430	-4920	2.5
3153	5400	-4900	2.5
3154	4760	-5675	2.5
3155	4760	-5675	2.5
3156	4760	-5675	2.5
3157	4750	-5670	2.5
3158	4850	-5530	2.5
3159	4850	-5530	30.0
3160	4820	-5625	2.5
3161	4820	-5625	2.5
3162	4820	-5625	2.5
3163	4820	-5625	2.5
3164	4835	-5625	2.5
3165	4835	-5625	30.0
3166	4850	-5625	2.5
3167	5010	-5595	2.5
3168	4700	-5355	10.0
3169	4680	-5080	2.5
3170	4695	-4990	2.5
3171	4685	-4630	180.0
3173	4730	-4270	15.0

SAMPLE	LINE	PICKET	GOLD (PPB)
3174	4805	-3755	30.0
3175	4810	-3770	70.0
3176	4800	-4225	10.0
3177	4780	-4225	10.0
3178	4790	-4625	910.0
3180	4020	-4625	850.0
3181	4070	-4525	730.0
3182	4215	-4625	70.0
3183	4215	-4625	160.0
3185	4580	-5060	2.5
3186	4495	-4525	15.0
3187	4495	-4525	5.0
3188	4495	-4525	2.5
3189	4605	-4207	5.0
3190	4605	-4207	5.0
3191	4597	-4520	6300.0
3192	4615	-4625	35.0
4114	5025	-5525	2.5
4115	5000	-5530	2.5
4116	4980	-5475	2.5
4118	4900	-5600	2.5
LB001	5400	-350	30.0
LB002	5400	-350	5.0
LB003	5400	-350	10.0
LB004	5400	-350	5.0
LB005	5400	-350	5.0
LB006	5400	-350	2.5
LB007	5400	-350	10.0
LB008	5400	-350	2.5
9001	8615	-1795	130.0
9002	8615	-1796	10.0
9003	8616	-1796	5.0
9004	8617	-1796	15.0
9005	8620	-1794	15.0
9006	8620	-1795	20.0
9007	8621	-1796	30.0
9008	8622	-1795	20.0
9009	8623	-1796	15.0
9010	8625	-1793	20.0

APPENDIX II

REPORT OF ANALYSIS - SOILS

APPENDIX II - McVICAR LAKE SOIL SURVEYS 1992

SAMPLE	LINE	PICKET	GOLD
6001	4100	-4900	<1
6002	4100	-4850	<1
6003	4100	-4800	<1
6004	4100	-4750	<1
6005	4100	-4700	<1
6006	4100	-4650	<1
6007	4100	-4600	<1
6008	4100	-4550	2.00
6009	4100	-4500	<1
6010	4100	-4450	2.00
6011	4100	-4400	<1
6012	4100	-4350	<1
6013	4100	-4300	<1
6014	4100	-4250	<1
6015	4100	-4200	<1
6016	4100	-4150	<1
6017	4100	-4100	<1
6018	4100	-4050	<1
6019	4100	-4000	<1
6020	4100	-3950	<1
6021	4100	-3900	<1
6022	4100	-3850	<5
6023	4100	-3800	<5
6024	4100	-3750	<1
6048	4300	-4900	<1
6047	4300	-4850	<1
6046	4300	-4800	<1
6045	4300	-4750	<1
6044	4300	-4700	<5
6043	4300	-4650	<5
6042	4300	-4600	<1
6041	4300	-4550	<1
6040	4300	-4500	<1
6039	4300	-4450	<1
6038	4300	-4400	<1
6037	4300	-4350	<1
6036	4300	-4300	<1
6035	4300	-4250	<1
6034	4300	-4200	<1

SAMPLE	LINE	PICKET	GOLD
6033	4300	-4150	<1
6032	4300	-4100	<5
6031	4300	-4050	5.00
6030	4300	-4000	<5
6029	4300	-3950	<5
6028	4300	-3900	<1
6027	4300	-3850	<5
6026	4300	-3800	<5
6025	4300	-3750	<5
6049	4500	-4900	<1
6050	4500	-4850	<5
6051	4500	-4800	<5
6052	4500	-4750	<5
6053	4500	-4700	<5
6054	4500	-4650	<5
6055	4500	-4600	<5
6056	4500	-4550	<1
6057	4500	-4500	<1
6058	4500	-4450	<1
6059	4500	-4400	<1
6060	4500	-4300	<1
6061	4500	-4250	<1
6062	4500	-4200	<1
6063	4500	-4150	<1
6064	4500	-4100	<1
6065	4500	-4050	<1
6088	4700	-4900	<5
6087	4700	-4850	<5
6086	4700	-4800	<5
6085	4700	-4750	<5
6084	4700	-4700	<5
6083	4700	-4650	<5
6082	4700	-4600	<5
6081	4700	-4550	<5
6080	4700	-4500	<1
6079	4700	-4400	<5
6078	4700	-4350	<5
6077	4700	-4300	<1
6076	4700	-4250	<5
6075	4700	-4200	<1
6074	4700	-4150	<1

SAMPLE	LINE	PICKET	GOLD
6073	4700	-4100	<1
6072	4700	-4050	<1
6071	4700	-4000	<1
6070	4700	-3950	<1
6069	4700	-3900	<1
6068	4700	-3850	<1
6067	4700	-3800	<1
6066	4700	-3750	<1
7122	6200	-4500	<1
7123	6200	-4450	<1
7124	6200	-4400	<1
7125	6200	-4350	<1
7126	6200	-4300	<1
7127	6200	-4250	<1
7128	6200	-4200	<1
7129	6200	-4150	<1
7130	6200	-4100	<1
7131	6200	-4050	<1
7132	6200	-4000	<1
7133	6200	-3950	<5
7134	6200	-3900	<1
7135	6200	-3850	<1
7136	6200	-3800	<1
7137	6200	-3750	<1
7149	6300	-4300	<1
7148	6300	-4250	<1
7147	6300	-4200	<1
7146	6300	-4150	<1
7145	6300	-4100	<1
7144	6300	-4050	<1
7143	6300	-4000	<1
7142	6300	-3950	<1
7141	6300	-3900	<5
7140	6300	-3850	<5
7139	6300	-3800	<5
7138	6300	-3750	<5
7150	6400	-4300	<1
7151	6400	-4250	<1
7152	6400	-4200	<1
7153	6400	-4150	<1
7154	6400	-4100	<1

SAMPLE	LINE	PICKET	GOLD
7155	6400	-4050	<1
7156	6400	-4000	<1
7157	6400	-3950	<1
7158	6400	-3900	<1
7159	6400	-3850	<5
7160	6400	-3800	<1
7161	6400	-3750	<1
7172	6500	-4300	<5
7171	6500	-4250	<5
7170	6500	-4200	<1
7169	6500	-4150	<1
7168	6500	-4100	<1
7167	6500	-4050	<1
7166	6500	-3950	<1
7165	6500	-3900	<1
7164	6500	-3850	<5
7163	6500	-3800	<5
7162	6500	-3750	<1
7173	6600	-4300	<5
7174	6600	-4250	<5
7175	6600	-4200	<5
7176	6600	-4150	<5
7177	6600	-4100	<1
7178	6600	-4050	<1
7179	6600	-4000	<1
7180	6600	-3950	<1
7181	6600	-3900	<1
7182	6600	-3850	<1
7183	6600	-3800	<5
7184	6600	-3750	<1
7195	6700	-4250	<5
7194	6700	-4200	<5
7193	6700	-4150	<5
7192	6700	-4100	<5
7191	6700	-4050	<5
7190	6700	-4000	<5
7189	6700	-3950	<5
7188	6700	-3900	<1
7187	6700	-3850	<1
7186	6700	-3800	<1
7185	6700	-3750	<1

SAMPLE	LINE	PICKET	GOLD
6213	6800	-4800	2.00
6214	6800	-4750	<1
6215	6800	-4700	<1
6216	6800	-4650	<1
6217	6800	-4600	<1
6218	6800	-4550	<1
6219	6800	-4500	<1
6220	6800	-4450	<1
6221	6800	-4400	<1
6222	6800	-4350	<1
6223	6800	-4300	<1
6224	6800	-4250	<1
6225	6800	-4200	<1
6226	6800	-4150	<1
6227	6800	-4100	<1
6228	6800	-4050	<5
6229	6800	-4000	<5
6230	6800	-3950	<5
6231	6800	-3900	<5
6232	6800	-3850	<5
6233	6800	-3800	<1
6234	6800	-3750	<1
6257	6900	-4850	<1
6256	6900	-4800	<5
6255	6900	-4750	<5
6254	6900	-4700	<5
6253	6900	-4650	<5
6252	6900	-4600	<5
6251	6900	-4550	<5
6250	6900	-4500	<1
6249	6900	-4450	<1
6248	6900	-4400	<5
6247	6900	-4350	<5
6246	6900	-4300	<5
6245	6900	-4250	<5
6244	6900	-4200	<5
6243	6900	-4150	<5
6242	6900	-4100	<5
6241	6900	-4050	<5
6240	6900	-4000	<1
6239	6900	-3950	<1

SAMPLE	LINE	PICKET	GOLD
6238	6900	-3900	<1
6237	6900	-3850	<1
6236	6900	-3800	<1
6235	6900	-3750	<1
6258	7000	-4850	<5
6259	7000	-4800	<5
6260	7000	-4750	<5
6261	7000	-4700	<5
6262	7000	-4650	<5
6263	7000	-4600	<1
6264	7000	-4550	<1
6265	7000	-4500	<1
6277	7100	-4850	<5
6276	7100	-4825	<5
6275	7100	-4800	<5
6274	7100	-4775	<5
6273	7100	-4750	<5
6272	7100	-4725	<5
6271	7100	-4700	<1
6270	7100	-4675	<1
6269	7100	-4650	<1
6268	7100	-4625	<1
6267	7100	-4600	<1
6266	7100	-4575	<5
6089	7300	-3750	<1
6090	7300	-3700	<1
6091	7300	-3650	<1
6092	7300	-3600	<5
6093	7300	-3550	<1
6094	7300	-3500	<1
6095	7300	-3450	<1
6096	7300	-3400	<1
6097	7300	-3350	<1
6098	7300	-3300	<5
6099	7300	-3250	<1
6100	7300	-3200	<1
6101	7300	-3150	<1
6102	7300	-3100	<5
6103	7300	-3050	<1
6104	7300	-3000	<1
6105	7300	-2950	<1

SAMPLE	LINE	PICKET	GOLD
6106	7300	-2900	<1
6107	7300	-2850	<1
6108	7300	-2750	<1
6109	7300	-2700	<1
6110	7300	-2650	<5
6111	7300	-2600	<1
6112	7300	-2550	<1
6113	7300	-2500	<1
6114	7300	-2450	<1
6115	7300	-2400	<1
6116	7300	-2350	<1
6117	7300	-2300	<1
6118	7300	-2250	<5
6119	7300	-2200	<5
6120	7300	-2150	<5
6121	7300	-2100	<5
6122	7300	-2050	<1
6123	7300	-2000	<1
6124	7300	-1950	<1
6125	7300	-1900	<1
6126	7300	-1850	<1
6127	7300	-1800	<1
6128	7300	-1750	<1
6170	7400	-3750	<5
6169	7400	-3700	<1
6168	7400	-3650	<1
6167	7400	-3600	<1
6166	7400	-3550	<1
6165	7400	-3500	<5
6164	7400	-3450	<5
6163	7400	-3400	<5
6162	7400	-3350	<1
6161	7400	-3300	<5
6160	7400	-3250	<5
6159	7400	-3200	<5
6158	7400	-3150	<5
6157	7400	-3100	<5
6156	7400	-3050	<5
6155	7400	-3000	<1
6154	7400	-2950	<1
6153	7400	-2900	<1

SAMPLE	LINE	PICKET	GOLD
6152	7400	-2850	<1
6151	7400	-2800	<1
6150	7400	-2750	<1
6149	7400	-2700	<1
6148	7400	-2650	<1
6147	7400	-2600	10.00
6146	7400	-2550	<1
6145	7400	-2500	<1
6144	7400	-2450	<1
6143	7400	-2400	<1
6142	7400	-2350	<5
6141	7400	-2300	<5
6140	7400	-2250	<1
6139	7400	-2200	<5
6138	7400	-2150	<1
6137	7400	-2100	<1
6136	7400	-2050	<1
6135	7400	-2000	<1
6134	7400	-1950	<1
6133	7400	-1900	<1
6132	7400	-1850	<1
6131	7400	-1800	<1
6130	7400	-1750	<1
6129	7400	-1700	<1
6171	7500	-3750	<1
6172	7500	-3700	<1
6173	7500	-3650	1.00
6174	7500	-3600	<1
6175	7500	-3550	<1
6176	7500	-3500	<1
6177	7500	-3450	<1
6178	7500	-3400	<1
6179	7500	-3350	<1
6180	7500	-3300	<1
6181	7500	-3250	1.00
6182	7500	-3200	<1
6183	7500	-3150	<1
6184	7500	-3100	<1
6185	7500	-3050	<1
6186	7500	-3000	<1
6187	7500	-2950	<1

SAMPLE	LINE	PICKET	GOLD
6188	7500	-2900	<1
6189	7500	-2850	<1
6190	7500	-2800	<1
6191	7500	-2750	<1
6192	7500	-2700	<1
6193	7500	-2650	2.00
6194	7500	-2600	<1
6195	7500	-2550	<1
6196	7500	-2500	<1
6197	7500	-2450	<1
6198	7500	-2400	<1
6199	7500	-2350	<1
6200	7500	-2300	<5
6201	7500	-2250	<1
6202	7500	-2200	<1
6203	7500	-2150	<1
6204	7500	-2100	<1
6205	7500	-2050	<1
6206	7500	-2000	<1
6207	7500	-1950	<1
6208	7500	-1900	<1
6209	7500	-1850	<1
6210	7500	-1800	<1
6211	7500	-1750	<1
6212	7500	-1700	<1
7041	7600	-3750	<1
7040	7600	-3700	<1
7039	7600	-3650	<1
7038	7600	-3600	<1
7037	7600	-3550	<1
7036	7600	-3500	<1
7035	7600	-3450	<1
7034	7600	-3400	<1
7033	7600	-3350	<1
7032	7600	-3300	<1
7031	7600	-3250	<1
7030	7600	-3200	<1
7029	7600	-3150	<5
7028	7600	-3100	<1
7027	7600	-3050	<1
7026	7600	-3000	<1

SAMPLE	LINE	PICKET	GOLD
7025	7600	-2950	<1
7024	7600	-2900	<1
7023	7600	-2850	<1
7022	7600	-2800	<1
7021	7600	-2750	<1
7020	7600	-2700	<5
7019	7600	-2650	<5
7018	7600	-2600	<5
7017	7600	-2550	<5
7016	7600	-2500	<1
7015	7600	-2450	<1
7014	7600	-2400	<5
7013	7600	-2350	<1
7012	7600	-2300	<1
7011	7600	-2250	<1
7010	7600	-2200	<1
7009	7600	-2150	<1
7008	7600	-2100	<5
7007	7600	-2050	<1
7006	7600	-2000	<1
7005	7600	-1950	<5
7004	7600	-1900	<1
7003	7600	-1850	<1
7002	7600	-1800	<1
7001	7600	-1750	<1
7042	7700	-3750	<5
7043	7700	-3700	<5
7044	7700	-3650	<1
7045	7700	-3600	<1
7046	7700	-3550	<1
7047	7700	-3500	<1
7048	7700	-3450	<1
7049	7700	-3400	2.00
7050	7700	-3350	<1
7051	7700	-3300	<1
7052	7700	-3250	<1
7053	7700	-3200	<1
7054	7700	-3150	<5
7055	7700	-3100	<5
7056	7700	-3050	<5
7057	7700	-3000	<5

SAMPLE	LINE	PICKET	GOLD
7058	7700	-2950	<5
7059	7700	-2900	<1
7060	7700	-2850	<5
7061	7700	-2800	<1
7062	7700	-2750	<1
7063	7700	-2700	<5
7064	7700	-2650	<5
7065	7700	-2600	<1
7066	7700	-2550	<5
7067	7700	-2500	<5
7068	7700	-2400	<1
7069	7700	-2350	<1
7070	7700	-2300	<1
7071	7700	-2250	<1
7072	7700	-2200	<1
7073	7700	-2150	<1
7074	7700	-2100	<5
7075	7700	-2050	<5
7076	7700	-2000	<1
7077	7700	-1950	<1
7078	7700	-1900	<5
7079	7700	-1850	1.00
7080	7700	-1800	<5
7081	7700	-1750	<1
7121	7800	-3750	<5
7120	7800	-3700	<5
7119	7800	-3650	<5
7118	7800	-3600	<5
7117	7800	-3550	<5
7116	7800	-3500	<1
7115	7800	-3450	<5
7114	7800	-3400	<5
7113	7800	-3350	<5
7112	7800	-3300	<5
7111	7800	-3250	<5
7110	7800	-3200	<5
7109	7800	-3150	<5
7108	7800	-3100	<5
7107	7800	-3050	<5
7106	7800	-3000	<1
7105	7800	-2950	<1

SAMPLE	LINE	PICKET	GOLD
7104	7800	-2900	<5
7103	7800	-2850	<1
7102	7800	-2800	<1
7101	7800	-2750	<1
7100	7800	-2650	<1
7099	7800	-2600	<5
7098	7800	-2550	<1
7097	7800	-2500	<5
7096	7800	-2450	<5
7095	7800	-2400	<5
7094	7800	-2350	<5
7093	7800	-2300	<1
7092	7800	-2250	<1
7091	7800	-2200	<1
7090	7800	-2150	<5
7089	7800	-2100	<5
7088	7800	-2050	<1
7087	7800	-2000	<1
7086	7800	-1950	<1
7085	7800	-1900	<5
7084	7800	-1850	<5
7083	7800	-1800	<5
7082	7800	-1750	<1

APPENDIX III

LITHOLOGICAL DESCRIPTIONS

by S.E. Sparks, B.Sc.
September 1991

APPENDIX III - McVICAR LAKE LITHOLOGIES

12 TONALITE: Light grey-green, weathers to white. Massive, medium grained. Composition is quartz and plagioclase with 20% sub-idiomorphic glassy grey quartz crystals. Weak pervasive sericite alteration which increases slightly in intensity toward outer contacts of unit.

7 BRECCIATED AND SHEARED ANORTHOSITIC GABBRO:

Medium green, weathers to white. Massive, fine grained. Moderately, pervasively sericite altered. Moderate silica alteration in patches. Weak apple green mica alteration occurs in patches up to 10 cm long. Moderately to intensely sheared breccia fragments.

7a SHEARED ANORTHOSITIC GABBRO:

Dark green, weathers to buff and dark green. Very fine grained. Moderate to intense pervasive apple green mica, sericite, and chlorite alteration. Weak to moderate pervasive silica alteration. Intensity of all alterations varies throughout unit. Minor pyrite mineralization occurs as dissemination and stringers.

7b BRECCIATED ANORTHOSITIC GABBRO:

Dark green and white, weathers to buff-white. Massive, medium grained. Weak pervasive sericite alteration. Weak carbonate alteration along fractures.

7d SILICIFIED ANORTHOSITIC GABBRO:

Light green-grey, weathers to white. Massive, medium grained. <1mm anorthositic plagioclase in fine grained mafic matrix. Intense pervasive silica alteration. Trace pyrite mineralization on fracture surfaces.

6a SHEARED BASALT:

Light green-grey, weathers to dark grey-green. Massive, very fine grained. Moderate pervasive sericite alteration. Weak pervasive silica alteration. Moderate carbonate alteration along fractures. Moderately sheared.

4a ANORTHOSITIC GABBRO:

Dark green, weathers to light green-grey. Massive, medium grained. 40% sub-idiomorphic anorthositic plagioclase (1-2 mm diameter) in fine grained mafic chlorite-rich matrix. Weak pervasive sericite alteration. Moderately sheared.

7a SHEARED ANORTHOSITIC GABBRO:

Light grey to buff and apple green, weathers to apple green and buff. Intensely sericite and apple green mica altered. Carbonate alteration is both pervasive and in 3-5 mm wide veinlets. Intensely sheared but remanent anorthositic texture is apparent. Trace disseminated pyrite. Unit contains 10-20 cm by 5 cm pods of buff-coloured intermediate intrusive which has abundant 1-2 mm clear quartz crystals and which is moderately sericite altered. Intrusion pods lie parallel to schistosity. Shearing occurs in several directions and in some areas occurs in a radial pattern.

7b BRECCIATED ANORTHOSITIC GABBRO:

Light grey to buff matrix, weathers to light buff to white. Matrix is intensely sericite altered; carbonate alteration occurs pervasively and as 3-5 mm veinlets. Inclusions are angular clasts 10-30 cm long by 10 cm wide of apple green mica altered sheared anorthositic gabbro (7a), medium grained intermediate intrusive and intensely silicified anorthositic gabbro.

6b BRECCIATED BASALT:

Dark green and white, weathers to buff-grey. Matrix is moderately carbonate altered fine grained basalt. Carbonate alteration also occurs as irregular veinlets 2-6 mm wide. Inclusions are angular 10-20 cm, composed of medium grained intermediate intrusive and silicified gabbro. Intermediate intrusive also occurs as veinlets. Silicified gabbro occurs as irregular rounded patches 10-20 cm in diameter.

APPENDIX IV

ACTIVE CLAIMS - THIS WORK REPORT

APPENDIX IV - ACTIVE CLAIMS 1992

DISTRICT	CLAIM #	SIZE (ha)	CLAIM SHEET
PA	1006251	16	McVICAR LAKE G-2121
PA	1006252	16	McVICAR LAKE G-2121
PA	1080593	16	STOUGHTON LK G-2228
PA	1080594	16	STOUGHTON LK G-2228
PA	1080634	16	STOUGHTON LK G-2228
PA	1080654	16	STOUGHTON LK G-2228
PA	1100653	16	STOUGHTON LK G-2228
PA	1144651	16	McVICAR LAKE G-2121
PA	1144671	16	McVICAR LAKE G-2121
PA	1144672	16	McVICAR LAKE G-2121
PA	1144673	16	McVICAR LAKE G-2121
PA	1144674	16	McVICAR LAKE G-2121
PA	1144675	16	McVICAR LAKE G-2121
PA	1144676	16	McVICAR LAKE G-2121
PA	1144677	16	McVICAR LAKE G-2121
PA	1144678	16	McVICAR LAKE G-2121
PA	1144679	16	McVICAR LAKE G-2121
PA	1144680	16	McVICAR LAKE G-2121
PA	1144681	16	McVICAR LAKE G-2121
PA	1144682	16	McVICAR LAKE G-2121
PA	1144683	16	McVICAR LAKE G-2121
PA	1144684	16	McVICAR LAKE G-2121
PA	1144688	16	McVICAR LAKE G-2121
PA	1144691	16	McVICAR LAKE G-2121
PA	1144692	16	McVICAR LAKE G-2121
PA	1144693	16	McVICAR LAKE G-2121
PA	1144694	16	McVICAR LAKE G-2121
PA	1144697	16	McVICAR LAKE G-2121
PA	1144713	16	McVICAR LAKE G-2121
PA	1144719	16	McVICAR LAKE G-2121
PA	1144727	16	STOUGHTON LK G-2228
PA	1144728	16	STOUGHTON LK G-2228
PA	1144729	16	STOUGHTON LK G-2228
PA	1144730	16	STOUGHTON LK G-2228
PA	1144733	16	STOUGHTON LK G-2228
PA	1144734	16	STOUGHTON LK G-2228
PA	1144735	16	STOUGHTON LK G-2228
PA	1144736	16	STOUGHTON LK G-2228

DISTRICT	CLAIM #	SIZE (ha)	CLAIM SHEET
PA	1144739	16	STOUGHTON LK G-2228
PA	1144740	16	STOUGHTON LK G-2228
PA	1144741	16	STOUGHTON LK G-2228
PA	1144742	16	STOUGHTON LK G-2228
PA	1144745	16	STOUGHTON LK G-2228
PA	1144746	16	STOUGHTON LK G-2228
PA	1144747	16	STOUGHTON LK G-2228
PA	1144748	16	STOUGHTON LK G-2228
PA	1144755	16	STOUGHTON LK G-2228
PA	1144757	16	STOUGHTON LK G-2228
PA	1144777	16	STOUGHTON LK G-2228
PA	1144778	16	STOUGHTON LK G-2228
PA	1144779	16	STOUGHTON LK G-2228
PA	1144780	16	STOUGHTON LK G-2228
PA	1144783	16	STOUGHTON LK G-2228
PA	1144784	16	STOUGHTON LK G-2228
PA	1144785	16	STOUGHTON LK G-2228
PA	1144786	16	STOUGHTON LK G-2228
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PA	1144792	16	STOUGHTON LK G-2228
PA	1144797	16	STOUGHTON LK G-2228
PA	1144798	16	STOUGHTON LK G-2228
PA	1144837	16	STOUGHTON LK G-2228
PA	1144838	16	STOUGHTON LK G-2228
PA	1169292	16	McVICAR LAKE G-2121
PA	1169293	16	McVICAR LAKE G-2121
PA	1169294	16	McVICAR LAKE G-2121
PA	1169295	16	McVICAR LAKE G-2121
PA	1169296	16	McVICAR LAKE G-2121
PA	1169297	16	McVICAR LAKE G-2121
PA	1169298	16	McVICAR LAKE G-2121
PA	1169299	16	McVICAR LAKE G-2121
PA	1169300	16	McVICAR LAKE G-2121
PA	1173154	16	McVICAR LAKE G-2121
PA	1173155	16	McVICAR LAKE G-2121
PA	1173155	16	McV G-2121 & STGHN G2228
PA	1179701	16	McVICAR LAKE G-2121
PA	1179702	16	McVICAR LAKE G-2121
PA	1179703	16	McVICAR LAKE G-2121
PA	1179713	16	McVICAR LAKE G-2121

DISTRICT	CLAIM #	SIZE (ha)	CLAIM SHEET
PA	1179720	16	McVICAR LAKE G-2121
PA	1179725	16	McVICAR LAKE G-2121
PA	1179726	16	McVICAR LAKE G-2121
PA	1179730	16	McVICAR LAKE G-2121
PA	1179731	16	McVICAR LAKE G-2121
PA	1179732	16	McVICAR LAKE G-2121
PA	1179733	16	McVICAR LAKE G-2121
PA	1179734	16	McVICAR LAKE G-2121
PA	1179735	16	McVICAR LAKE G-2121
PA	1179736	16	McVICAR LAKE G-2121
PA	1179737	16	McVICAR LAKE G-2121
PA	1179740	16	McVICAR LAKE G-2121
PA	1179741	16	McVICAR LAKE G-2121
PA	1179742	16	McVICAR LAKE G-2121
PA	1179743	16	McVICAR LAKE G-2121
PA	1179744	16	McVICAR LAKE G-2121
PA	1179745	16	McVICAR LAKE G-2121
PA	1179746	16	McVICAR LAKE G-2121
PA	1179747	16	McVICAR LAKE G-2121
PA	1179750	16	McVICAR LAKE G-2121
PA	1179751	16	McVICAR LAKE G-2121
PA	1179752	16	McVICAR LAKE G-2121
PA	1179753	16	McVICAR LAKE G-2121
PA	1179754	16	McVICAR LAKE G-2121
PA	1179755	16	McVICAR LAKE G-2121
PA	1179756	16	McVICAR LAKE G-2121
PA	1179757	16	McVICAR LAKE G-2121
PA	1180578	16	McVICAR LAKE G-2121
PA	1180579	16	McVICAR LAKE G-2121
PA	1180580	16	McVICAR LAKE G-2121
PA	1180581	16	McVICAR LAKE G-2121
PA	1180582	16	McVICAR LAKE G-2121
PA	1180596	16	McVICAR LAKE G-2121
PA	1180638	16	McVICAR LAKE G-2121
PA	1180641	16	McVICAR LAKE G-2121
PA	1180642	16	McVICAR LAKE G-2121



52O11SW0006 OM92-008 MCVICAR LAKE

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

AN OMIP SPONSORED PROGRAM

by

R.G.BONNER, P.Geol.

BHP Minerals Canada Limited

May 15, 1992

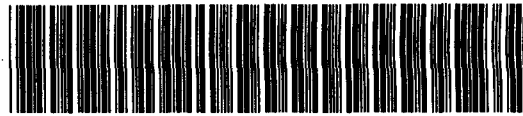


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SUMMARY

The McVicar Lake Property comprises 365 contiguous mining claims located in Northwestern Ontario, NTS 52 O/11 and O/12. The property is an aggregate of approximately 5,840 hectares. Diamond drilling was limited to seven mining claims located on the east shore of McVicar Lake and in the Shonia Lake area.

During the period February 3 to March 10, 1992 fifteen BQ diamond drill holes were completed with an aggregate footage of 5,378 feet (1,638 M). This program was designed to test the western extension of the Altered Zone Structure (AZS) in areas with the potential for structural dilation. Secondly, the 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. Late regional deformation defined the sheared gabbro-basalt contact thus establishing the AZS. All lithologies have been metamorphosed to greenschist facies.

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 contained within pyrite mineralization although free gold is known to occur within the margins of quartz veins. A second style of mineralization is recognised in associated with pyritic quartz veins along the margin of late tonalitic intrusives in the Shonia Lake area.

Two drill holes intersected high grade gold mineralization within pyritic quartz veins. Drill hole ML-92-64 intersected 0.348 oz/ton (opt) over 1.8 feet and drill hole ML-92-66 intersected 0.715 opt over 3.6 feet. In addition, anomalous gold assays (> 1000 ppb) are reported from the remaining three drill holes in close proximity to the Shonia #1 gold occurrence. Continuity between these drill holes is not yet established due to the drill hole array and a scarcity of pierce points limits the development of a structural model for follow up targeting.

A small dilation outcropping on Apple Island has been fully explored. Four drill holes (ML-92-71-74) outlined an anomalous zone reporting assays up to 2600 ppb gold from intensely altered and intensely sheared gabbro. This dilation occurs at a flexure point on the AZS which does not persist to depth.

The final drill hole of this campaign (ML-92-78) intersected 22.3 metres (true) of intensely altered and sheared apple green mica with pyritic quartz veins and reports gold assays up to 1300 ppb. This is also the thickest interval to date on the McVicar Lake property and clearly identifies a northwest plunging dilation extending west from the North Flexure (0.238 opt/6.6 feet). The eastern portion of this dilation is previously explored (Bonner 1991a) but the depth and west extensions remain open.

CONCLUSIONS AND RECOMMENDATIONS

1. The Induced Polarisation (IP) effect observed about the Shonia #1 Vein is related to a pyrite-chlorite-carbonate fracture system, disseminated pyrite, and pyritic quartz veins. However, it is not clear to what extent the auriferous veins contribute to the anomaly's amplitude.

2. Two vein sets are recognised at the Shonia #1 Vein area. Gold mineralization is associated with veins trending 068/76, however, the second set trending 039/50 may yet also prove to be auriferous.

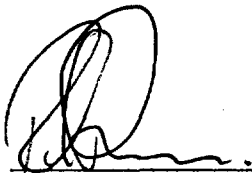
3. The drill results from the Shonia #1 Vein area are significant and additional diamond drilling is recommended. The target area remains open to the west, at depth, and gaps exist within the existing drill array. Specifically, in fill drilling on 25 metre centres is recommended. At present the only available tool for testing this target is drilling. The IP was useful in characterising the target but it cannot distinguish the auriferous veins from the widely distributed pyrite mineralization (point 1). Therefore, the following drill collars are recommended:

Hole #	Line	Picket	Depth	Dip	Azm
ML-92-67X	87+00E	31+60S	300'	-50	000
ML-92-79	86+50E	31+25S	400'	-50	000
ML-92-80	86+25E	31+00S	350'	-50	000
ML-92-81	86+00E	31+00S	350'	-50	000
ML-92-82	86+75E	31+25S	350'	-50	000

4. Additional sampling of the existing drill core (ML-92-64, 66, 67, 76, 77) is recommended to "bracket" several highly anomalous intervals.

5. Additional drilling is also recommended in the immediate vicinity of ML-92-78. West of the North Flexure (NF) a thick intersection of the AZS suggests the existence of a northwest plunging dilation linked with the NF. The objective of this small program will be two fold. First, the down dip extension of ML-92-78 will test the extent of the thickened portion of the NF. Second, an area of reduced VLF signature occurs near the end of the peninsula, a feature characteristic of auriferous dilations along the AZS. The following drill collars are recommended:

Hole #	Line	Picket	Depth	Dip	Azm
ML-92-83	L10+50N	3+00W	500'	-50	180
ML-92-84	L11+00N	4+00W	400'	-50	180



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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 February 3 to March 10, 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 1180578, PA 1180579, PA 1180580,
PA 1179710, KRL 903216, KRL 903219

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.

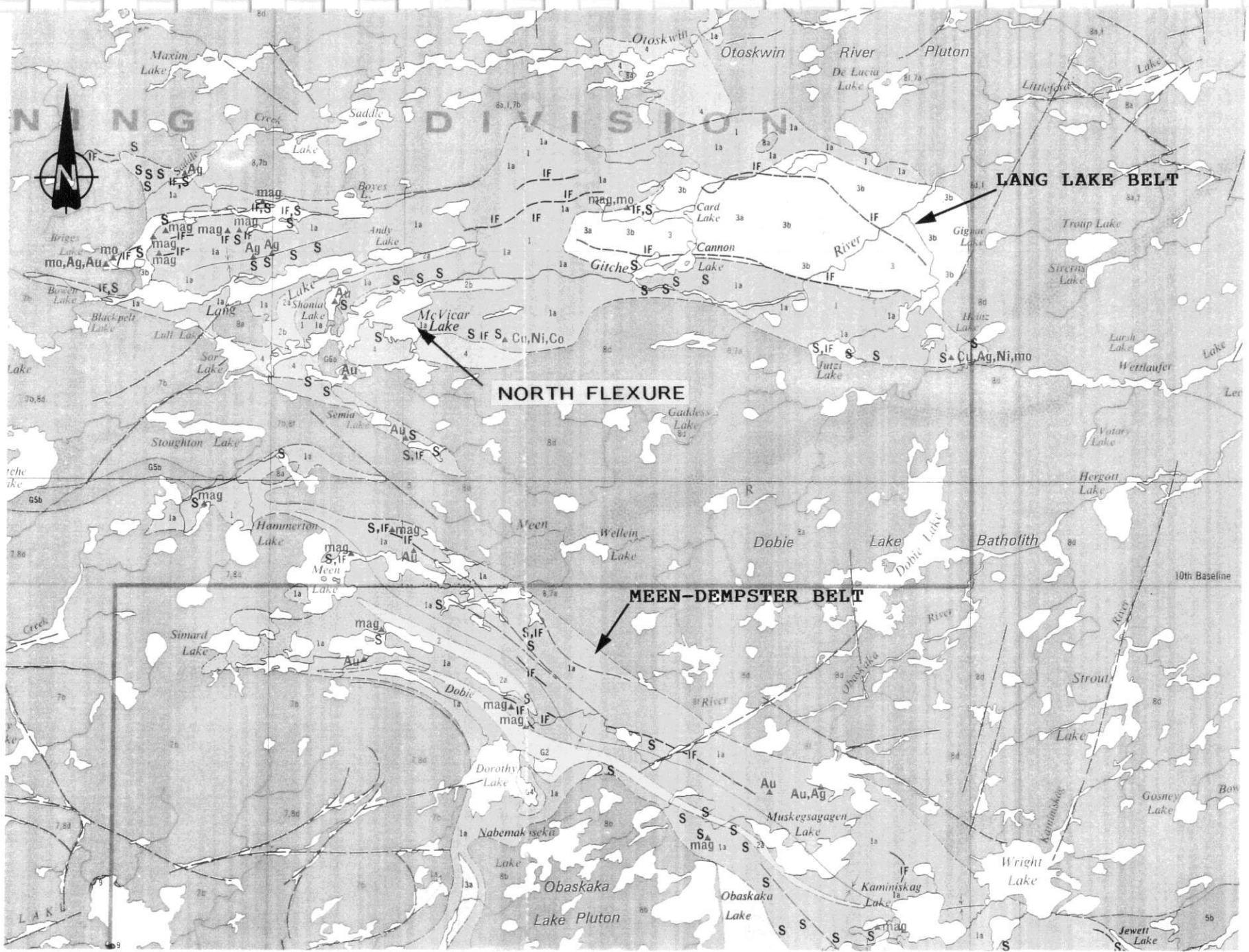
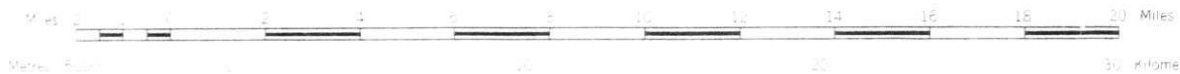


Figure 1.2a.
 LOCATION MAP
 (from Sage and Breaks, 1982)

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



1.4 Previous Work By BHP MINERALS CANADA LTD.

Previous to February 1992 BHP-Utah completed several phases of diamond drilling with an approximate aggregate footage of 20,000 feet in sixty-three 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 subcropping auriferous mineralization contained within a southeasterly plunging, intensely sheared and altered dilation zone (AZ). This zone, trending on a basalt-gabbro contact, reported 0.96 oz/T gold over 6.1 feet (ML-87-27)(Thomas, 1988).

1.5 Current Drilling Objectives

The objectives of the 1992 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 Altered Zone Structure (AZS) in the Shonia Lake and Apple Island areas.

GEOLOGY

2.1 Regional Geology

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

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

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

2.2 Local Geology

The McVicar Lake Property is underlain by Archean supracrustal volcanics correlatable with the Meen-Jackknife Lake Cycle of Stott and Wallace (1984). Massive to pillowed basaltic and andesitic flows are overlain by felsic pyroclastics and sediments. Large cross-cutting gabbroic intrusives are subsequently cross-cut by tonalitic bodies. Detailed lithological descriptions from a 1987 diamond drill report are included in Appendix III.

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

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

The metamorphic grade is greenschist. Weak to intensely developed foliations are known to occur away from the McVicar Fault in association with chloritic and sericitic lithologies.

Table 2.2a: STRATIGRAPHIC COLUMN - McVICAR LAKE PROPERTY

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

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

DIAMOND DRILLING

3.1 Introduction

During the period February 3, 1992 through March 10, 1992 a series of fifteen diamond drill holes were completed to evaluate the Altered Zone Structure between 86+00E and 96+00E (Shonia Lake grid), between 100+00E and 103+00E (Apple Island grid), and on Section 10+00N (McVicar Lake grid). The aggregate footage drilled during this phase was 5,378 feet (1,638 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 BQ with drill core storage located at the McVicar Lake camp site. 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 X-Ray Assay Laboratories Ltd. in Thunder Bay, Ontario. The sample rejects are also being stored in Thunder Bay. All samples were analyzed for gold (Au) utilising a fire assay technique and/or a cyanide leaching technique. The Report of Analysis is included for reference in Appendix II.

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

3.2 Section 10+00E (ML-92-78)

One drill hole (ML-92-78) was collared on L10+00E, 3+13W facing south (azimuth 180°), dipping at -50°. This drill hole tested the western extension of the AZS in the area of a weak surficial airborne anomaly (AEM). A lithological summary is presented in Table 3.2a, graphical representations are found in Figure 3.2b and Section Plan 2.

Table 3.2a: LITHOLOGICAL SUMMARY - ML-92-78

<u>Footage</u>		<u>Lithology</u>	
0.0	20.0	Overburden	
20.0	57.7	Porphyritic Basalt	
57.7	79.0	Basalt	
79.0	83.0	Ironstone/Chloritic Mudstone	
83.0	159.0	Basalt	
159.0	162.0	Ironstone/Chloritic Mudstone	
162.0	250.0	Basalt	
250.0	259.0	Ironstone/Chloritic Mudstone	
259.0	289.0	Basalt	
289.0	299.0	Sheared Basalt	
299.0	309.0	Intensely Sheared Basalt	
309.0	309.9	Quartz Vein (Apple Green Mica)	AZ
309.9	326.0	Sheared Basalt	
326.0	330.0	Sulphide Zone (7-10% Py)	
330.0	358.5	Apple Green Mica Schist (<1% Py)	
358.5	360.5	Quartz Vein	
360.5	369.0	Apple Green Mica Schist	
369.0	371.0	Quartz Vein	
371.0	373.0	Sheared Gabbro	
373.0	379.0	Brecciated Gabbro	
379.0	399.0	Gabbro	
399.0		End of Hole	

ML-92-78 intersected the target zone through the interval 299.0'-373.0'. This interval consists of intensely foliated and sheared apple green altered sericite schist containing minor quartz-pyrite veining.

Eighteen intervals were selected for gold analysis. The highest value obtained is 1300 ppb gold from the interval 326.0'-330.0' (1.5' recovered). This is described as a sulphide rich siliceous interval.

3.3 Section 104+67E (ML-92-71)

One drill hole (ML-92-71) was collared on L104+67E, 34+65S drilling off section (azimuth 210°), dipping at -48°. This drill hole tested the eastern extension of the Apple Island occurrence. A lithological summary is presented in Table 3.3a, graphical representations are found in Figure 3.3b and Section Plan 3.

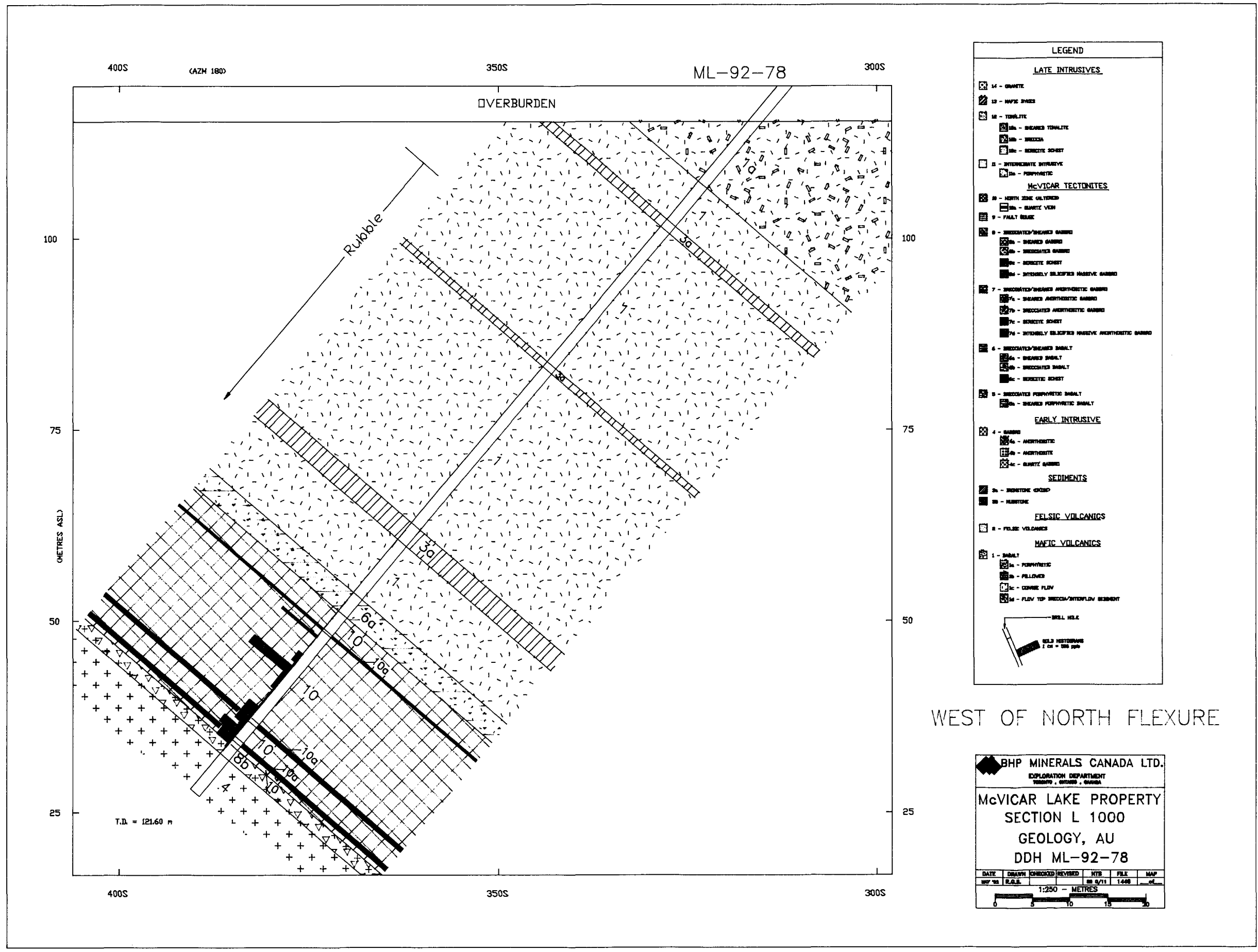


FIGURE 3.2b

Table 3.3a: LITHOLOGICAL SUMMARY - ML-92-71

	<u>Footage</u>	<u>Lithology</u>
0.0	7.0	Overburden
7.0	123.0	Basalt
123.0	152.0	Brecciated and Sheared Basalt
152.0	159.0	Brecciated Gabbro
159.0	228.0	Gabbro
228.0	241.0	Sheared and Brecciated Gabbro
241.0	301.0	Gabbro, Brecciated and Sheared Gabbro
301.0	325.0	Gabbro
325.0	344.0	Gabbro, Brecciated and Sheared Gabbro
344.0	369.0	Gabbro
369.0		End of Hole

ML-92-71 intersected the target zone through the interval 228.0'-241.0'. This interval consists of moderately sheared and brecciated gabbro. This zone is recognised by the traces of apple green-sericite mica alteration. Trace disseminated pyrite is observed.

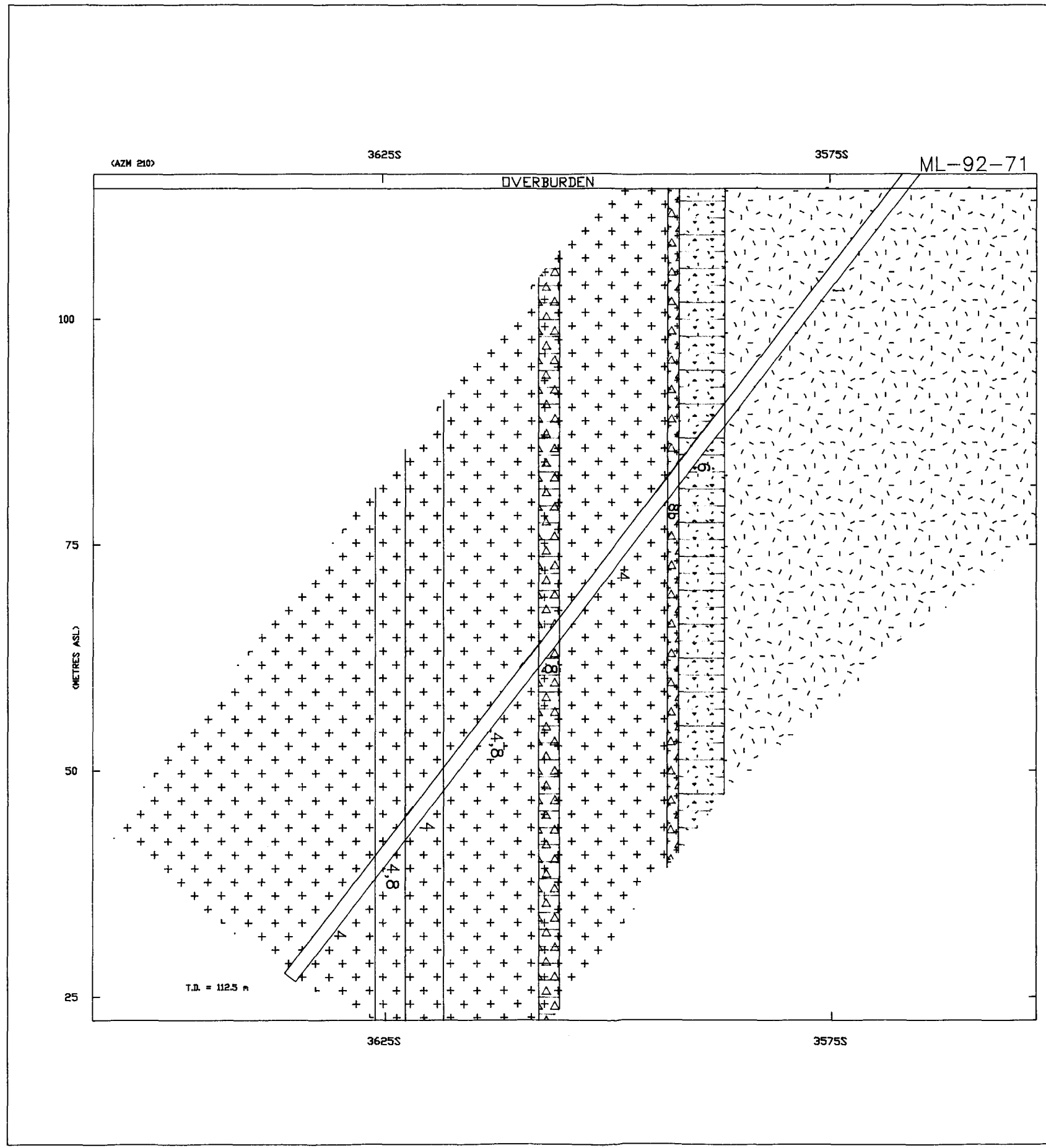
Sixteen intervals were selected for gold analysis. No economic or significant assays are reported.

3.4 Section 103+70E (ML-92-73)

One drill hole (ML-92-73) was collared on L103+70E, 33+00S drilling off section (azimuth 210°), dipping at -54°. This drill hole tested the near eastern extension of the Apple Island occurrence. A lithological summary is presented in Table 3.4a, graphical representations are found in Figure 3.4b and Section Plan 4.

ML-92-73 intersected the target zone through the interval 297.0'-300.0'. This zone comprises weakly foliated anorthositic gabbro containing trace amounts of apple green mica, sericite, and carbonate breccia. Oriented measurements indicate a trend of approximately 285°, dipping 50°.

Eleven intervals were selected for gold analysis. No economic values are reported. However, one interval does report 140 ppb gold from a four foot interval of sheared and brecciated basalt.



LEGEND

LATE INTRUSIVES

- 14 - DIORITE
- 13 - GABBRO
- 12 - TONALITE
 - 12a - SHEARED TONALITE
 - 12b - BRECCIA
 - 12c - GRANITE GNEISS
- 11 - INTERMEDIATE INTRUSIVE
 - 11a - PORPHYRY

McVICAR TECTONITES

- 10 - NORTH SIDE ALTERED
 - 10a - QUARTZ VEIN
- 9 - FAULT ZONE
- 8 - UNDEFORMED/SHEARED GABBRO
 - 8a - UNDEFORMED GABBRO
 - 8b - UNDEFORMED GABBRO
 - 8c - GRANITE GNEISS
 - 8d - INTENSELY DEFORMED MASSIVE GABBRO
- 7 - UNDEFORMED/SHEARED ANORTHOSITE GABBRO
 - 7a - UNDEFORMED ANORTHOSITE GABBRO
 - 7b - UNDEFORMED ANORTHOSITE GABBRO
 - 7c - GRANITE GNEISS
 - 7d - INTENSELY DEFORMED MASSIVE ANORTHOSITE GABBRO
- 6 - UNDEFORMED/SHEARED BASALT
 - 6a - UNDEFORMED BASALT
 - 6b - UNDEFORMED BASALT
 - 6c - GRANITE GNEISS
- 5 - UNDEFORMED PERPHYRYC BASALT
 - 5a - UNDEFORMED PERPHYRYC BASALT

EARLY INTRUSIVE

- 4 - BASALT
 - 4a - ANORTHOSITE
 - 4b - ANORTHOSITE
 - 4c - BASALT GABBRO

SEDIMENTS

- 3a - SANDSTONE COARSE
- 3b - SANDSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRY
 - 1b - FLOWED
 - 1c - CONCRE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW BRECCIA

WELL HOLE
 WELL METERING
 1 cm = 100 m

APPLE ISLAND OCCURRENCE

BHP MINERALS CANADA LTD.
 EXPLORATION DEPARTMENT
 PROJECTS - OPERATIONS - SERVICES

McVICAR LAKE PROPERTY
 SECTION L 10467
 GEOLOGY, AU
 DDH ML-92-71

DATE	DRAWN	CHECKED	REVIEWED	DATE	FILE	MAP
08/11	J.A.B.			08/11	1448	01

1:250 - METRES

FIGURE 3.3b

Table 3.4a: LITHOLOGICAL SUMMARY - ML-92-73

<u>Footage</u>		<u>Lithology</u>
0.0	39.0	Overburden
39.0	189.0	Basalt
189.0	215.3	Sheared Basalt
215.3	232.0	Sheared and Brecciated Basalt
232.0	251.0	Brecciated Basalt
251.0	259.0	Basalt
259.0	288.5	Gabbro
288.5	311.0	Anorthositic Gabbro (AGM)
311.0	389.0	Gabbro
389.0		End of Hole

3.5 Section 102+00E (ML-92-72)

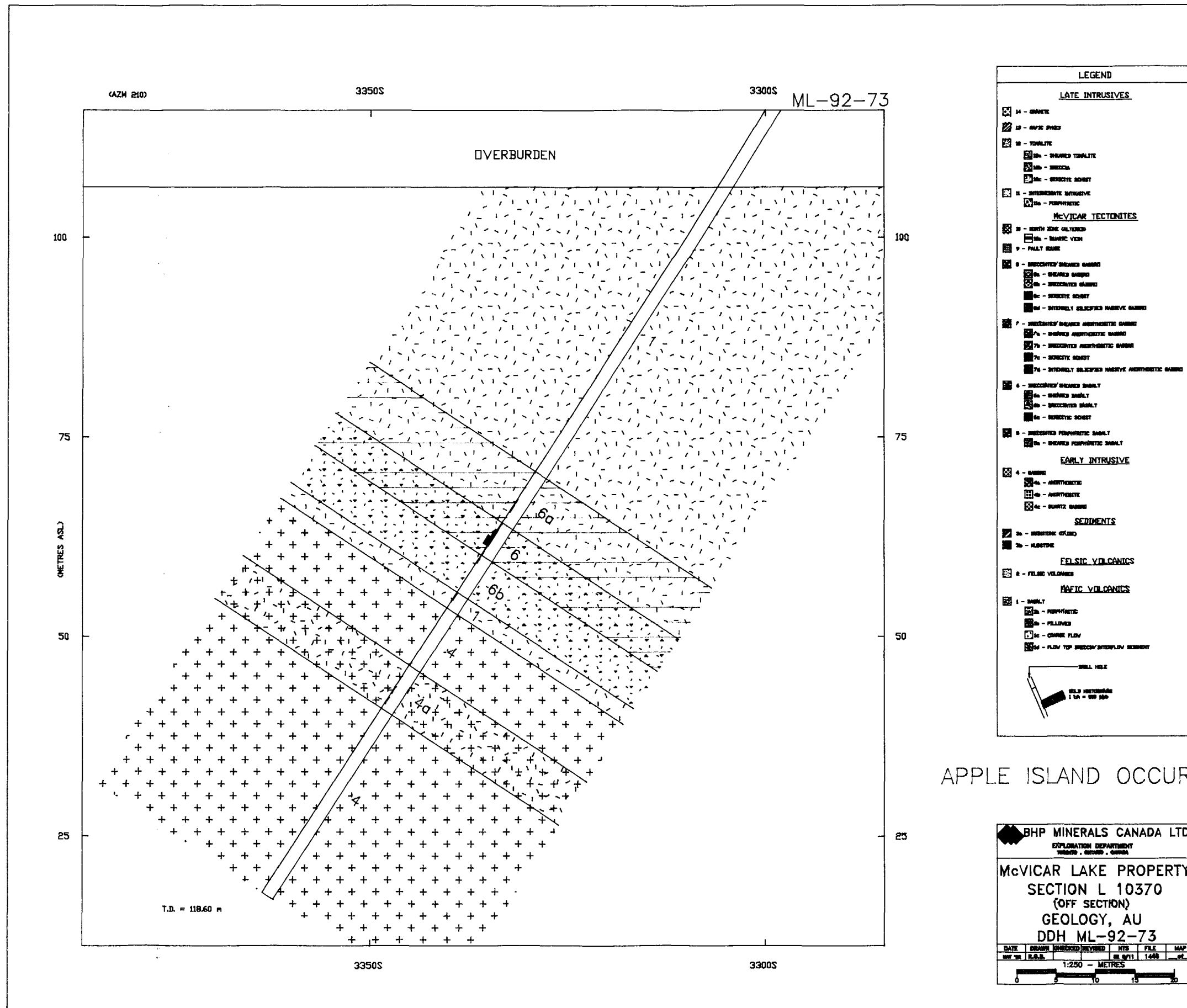
One drill hole (ML-92-72) was collared on L102+00E, 33+25S facing grid south (azimuth 180°), dipping at -53°. This drill hole tested the down dip extension of the Apple Island occurrence. A lithological summary is presented in Table 3.5a, graphical representations are found in Figure 3.5b and Section Plan 5.

Table 3.5a: LITHOLOGICAL SUMMARY - ML-92-72

<u>Footage</u>		<u>Lithology</u>
0.0	24.0	Overburden
24.0	50.9	Brecciated Basalt
50.9	100.3	Altered Zone Structure (Apple Green Mica Zone)
100.3	114.5	Brecciated Gabbro
114.5	123.8	Brecciated and Sheared Gabbro (AGM)
123.8	145.9	Anorthositic Gabbro
145.9	147.6	Intermediate Intrusive
147.6	206.7	Brecciated Gabbro
206.7	309.0	Gabbro
309.0		End of Hole

ML-92-72 intersected the target zone through the interval 50.9'-100.3'. This zone comprises intensely sheared and brecciated basalt with intervals of apple green-sericite schist. The footwall is characteristic sheared and brecciated anorthositic gabbro.

Seventeen intervals were selected for gold analysis. Two significant gold assays are reported. Sample 59986 reports 2300



- LEGEND
- LATE INTRUSIVES**
- 14 - GRANITE
 - 15 - MAFIC DYKE
 - 16 - TONALITE
 - 17a - GABBRO TONALITE
 - 17b - DIORITE
 - 17c - DIORITE SCHIST
 - 18 - INTERMEDIATE INTRUSIVE
 - 19a - PERPHYRIC
- McVICAR TECTONITES**
- 20 - NORTH SIDE ALTERED
 - 21a - BASIC VIEW
 - 21b - FULLY DEEP
 - 3 - UNCLASSIFIED GABBRO
 - 4a - GABBRO
 - 4b - UNCLASSIFIED GABBRO
 - 5a - DIORITE SCHIST
 - 5b - INTERMEDIATE DIORITE GABBRO
 - 6 - UNCLASSIFIED ANORTHOTIC GABBRO
 - 6a - UNCLASSIFIED GABBRO
 - 6b - UNCLASSIFIED GABBRO
 - 6c - DIORITE SCHIST
 - 6d - INTERMEDIATE DIORITE GABBRO
 - 7 - UNCLASSIFIED ANORTHOTIC GABBRO
 - 7a - UNCLASSIFIED GABBRO
 - 7b - UNCLASSIFIED ANORTHOTIC GABBRO
 - 7c - DIORITE SCHIST
 - 7d - INTERMEDIATE DIORITE GABBRO
 - 8 - UNCLASSIFIED GABBRO
 - 8a - UNCLASSIFIED GABBRO
 - 8b - UNCLASSIFIED GABBRO
 - 8c - DIORITE SCHIST
 - 9 - UNCLASSIFIED PERPHYRIC GABBRO
 - 9a - UNCLASSIFIED PERPHYRIC GABBRO
- EARLY INTRUSIVE**
- 4 - GABBRO
 - 4a - ANORTHOTIC
 - 4b - ANORTHOTIC
 - 4c - QUARTZ GABBRO
- SEDIMENTS**
- 22 - UNCLASSIFIED CLAY
 - 23 - SLURRY
- FELSIC VOLCANICS**
- 2 - FELSIC VOLCANIC
- MAFIC VOLCANICS**
- 1 - BASALT
 - 1a - PERPHYRIC
 - 1b - FLOWED
 - 1c - CONCRETE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT
- SHALL HOLE
- OLD INTERSECTION
1 CM = 100 M

APPLE ISLAND OCCURRENCE

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO - CANADA

McVICAR LAKE PROPERTY
SECTION L 10370
(OFF SECTION)
GEOLOGY, AU
DDH ML-92-73

DATE	DRAWN	REVISION	BY	FILE	MAP
				18 9211	1488

1:250 - METRES

0 5 10 15 20

FIGURE 3.4b

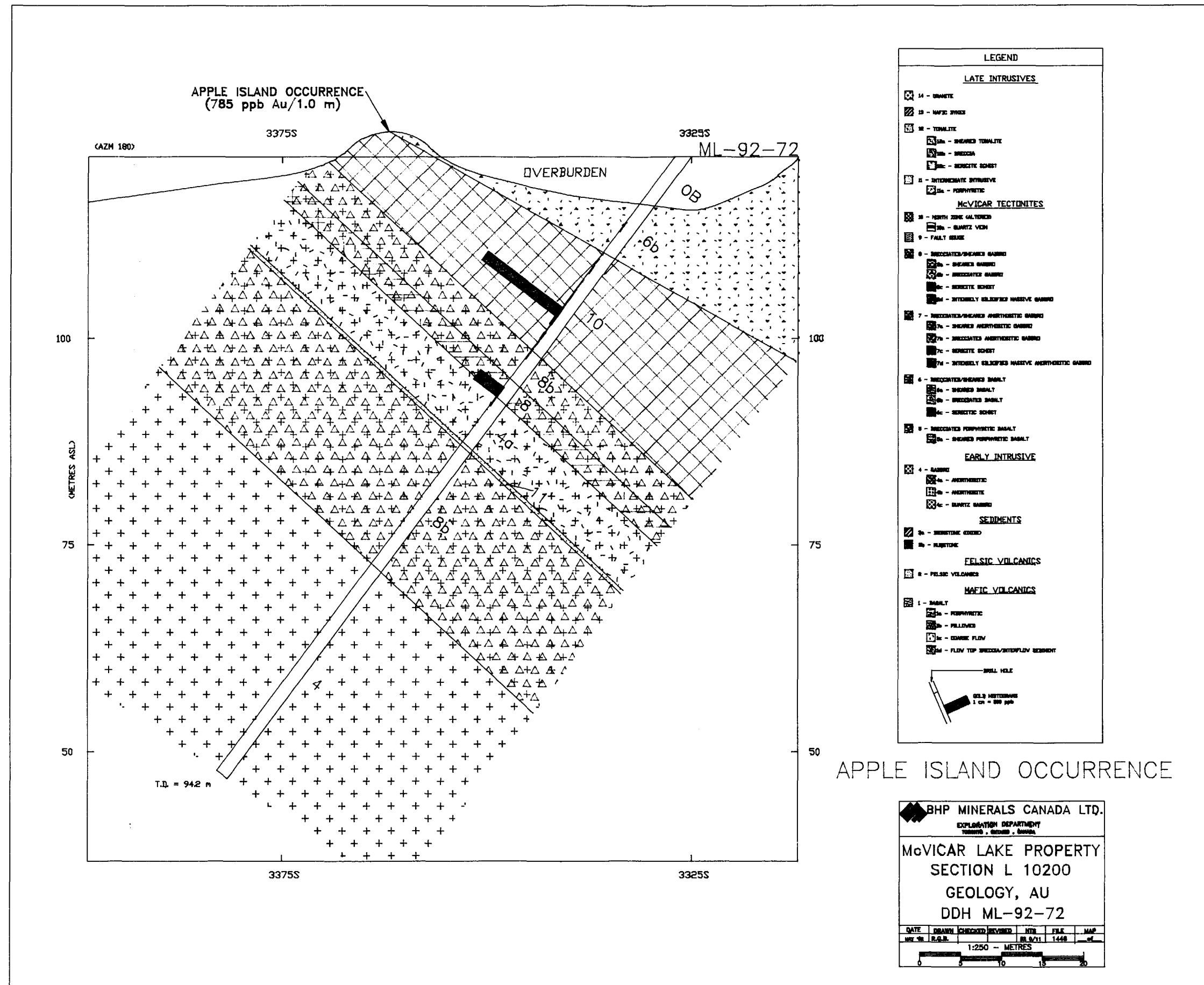


FIGURE 3.5b

ppb gold from an interval described as apple green mica - sericite schist with minor quartz veining. This interval contains a sub-interval of approximately 20 centimetres of 5% disseminated pyrite. Sample 59993 reports 750 ppb gold from an 4.5' interval of brecciated gabbro in the footwall breccia envelope.

3.6 Section 101+50E (ML-92-74)

One drill hole (ML-92-74) collared at L101+50E, 33+00S facing grid south (azimuth 180°), dipping at -53°. This drill hole tested the western extension of the Apple Island occurrence. A lithological summary is presented in Table 3.6a, graphical representations are found in Figure 3.6b and Section Plan 6.

Table 3.6a: LITHOLOGICAL SUMMARY - ML-92-74

<u>Footage</u>		<u>Lithology</u>
0.0	45.0	Overburden
45.0	77.8	Apple Island Flexure (Altered Zone Structure)
77.8	109.0	Brecciated Basalt
109.0	115.5	Anorthositic Gabbro
115.5	179.0	Gabbro
179.0		End of Hole

ML-92-74 intersected the target zone through the interval 45.0'-77.8'. This intersection consists of sheared basalt with minor sericite rich intervals. Minor apple green mica is reported within a footwall brecciated basalt with quartz veining.

Eleven intervals were selected for gold analysis. Three intervals report elevated gold values. The highest assay is 2300 ppb gold (sample 60612) from a sheared and brecciated basalt with minor (<1%) disseminated pyrite. Two contiguous samples (60613 and 60614) report 460 and 560 ppb gold respectively from an interval of brecciated basalt with minor quartz veining and apple green mica.

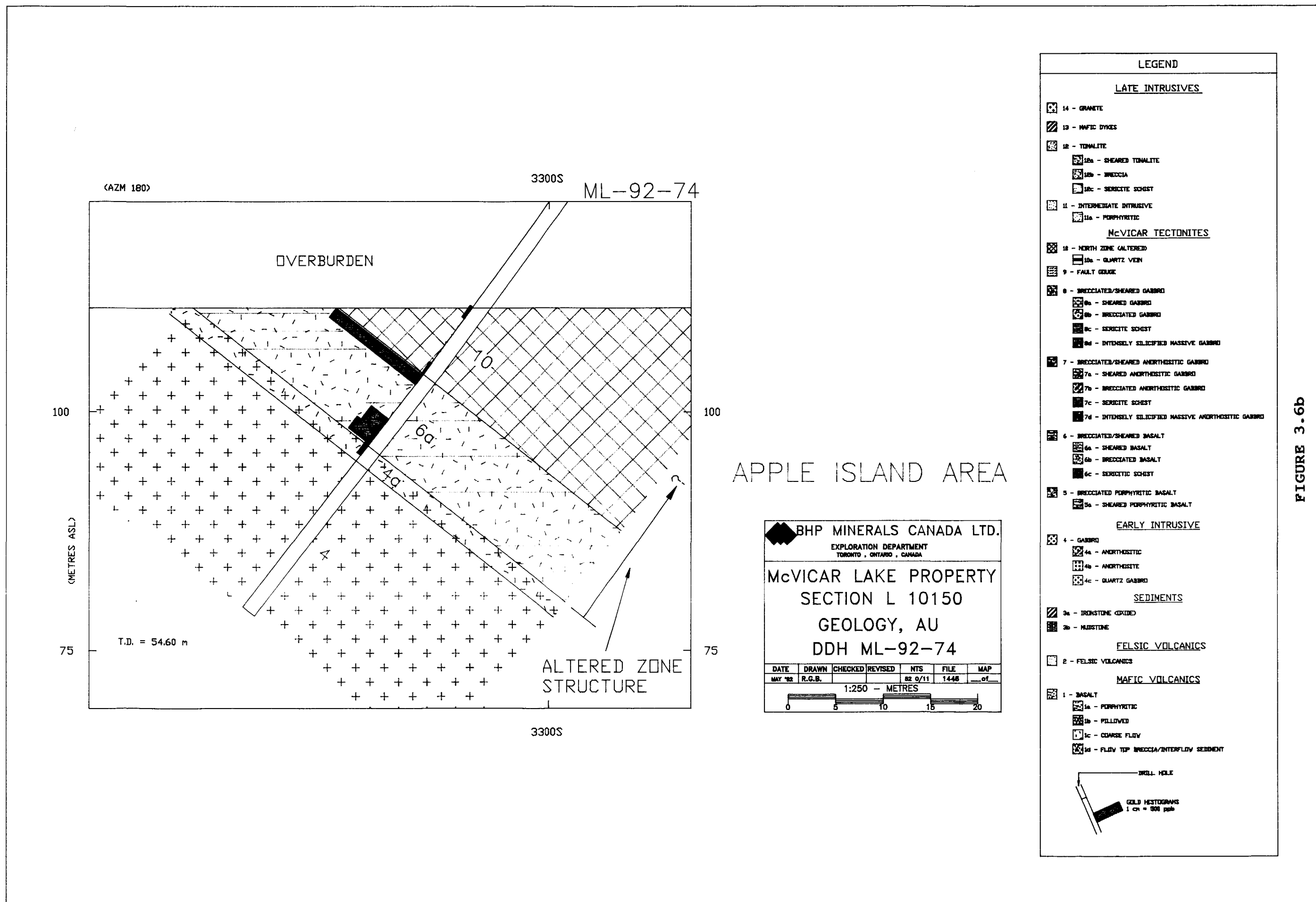


FIGURE 3.6b

3.7 Section 95+00E (ML-92-69, ML-92-70)

One drill hole (ML-92-69) collared at L94+99E, 29+15S facing grid south (azimuth 180°), dipping at -46° failed to reach the target due to ground conditions. A total of 129' was drilled. A second collar on this section at 28+91S tested a weak IP anomaly on the western extension of the AZS. A lithological summary for each drill hole is presented in Table 3.7a, graphical representations are found in Figure 3.7b and Section Plan 7.

Table 3.7a: LITHOLOGICAL SUMMARIES - ML-92-69, 70

ML-92-69		
<u>Footage</u>		<u>Lithology</u>
0.0	7.0	Overburden
7.0	69.0	Intermediate Pillowed Basalt
69.0	129.0	Mud and Sand
129.0		End of Hole
ML-92-70		
<u>Footage</u>		<u>Lithology</u>
0.0	25.0	Overburden
25.0	221.4	Brecciated Mafic/Int. Pillowed Basalt
221.4	236.0	Mudstone and Greywacke
236.0	260.0	Brecciated Mafic Breccia
260.0	299.0	Mudstone and Greywacke
299.0	418.5	Volcanic Mudstone
418.5	475.0	Variolitic Pillowed Basalt
475.0	493.7	Brecciated Basalt
493.7	503.0	Brecciated Anorthosite
503.0	505.8	Altered Zone Structure
505.8	539.0	Anorthositic Gabbro
539.0	549.0	Brecciated Gabbro
549.0	581.0	Gabbro
581.0		End of Hole

ML-92-69 intersected the target zone through the interval 503.0'-505.8'. This intersection consists of sheared anorthositic gabbro with up to 10% apple green mica and sericite. Pyrite is present in minor amounts as disseminations.

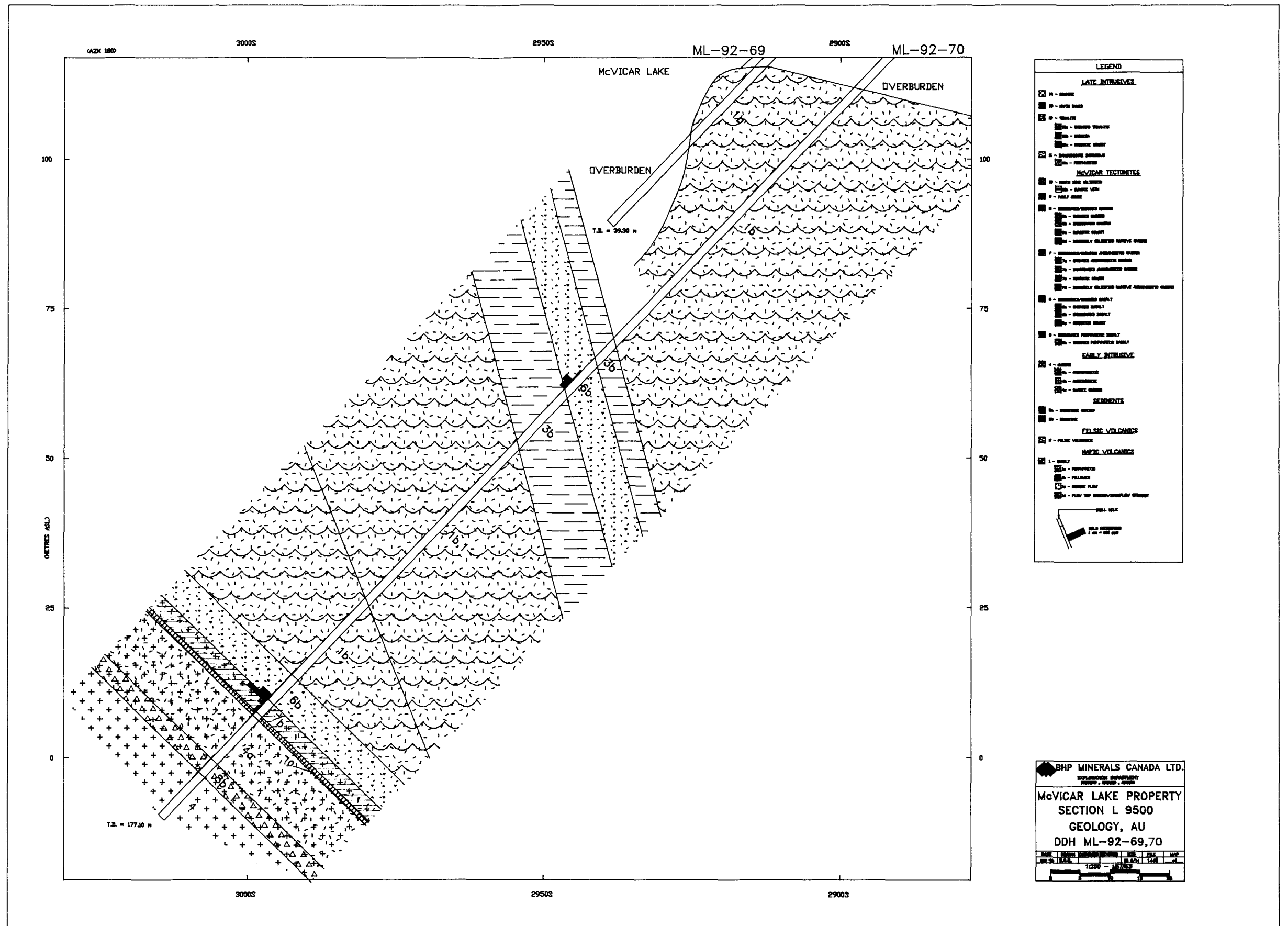


FIGURE 3.7b

Thirty one intervals were selected for gold analysis from ML-92-70, ML-92-69 was not sampled. Four samples report elevated gold values. The highest assay is 830 ppb gold (sample 59950) from an interval of brecciated basalt.

3.8 Section 89+00E (ML-92-65,ML-92-75)

Two drill holes ML-92-65 and ML-92-75 collared at 31+00S and 30+00S respectively on L89+00E. ML-92-65 faced grid north (azimuth 360°), dipping at -50° and ML-92-75 faced grid south (azimuth 180°), dipping at -52°. The two drill holes tested a VLF anomaly splayed off the AZS to the east. Two drill holes were required to ascertain the attitude of the splay structure. A lithological summary for each drill hole is presented in Table 3.8a, graphical representations are found in Figure 3.8b and Section Plan 8.

ML-92-65 and ML-92-75 intersected the target zone through the interval 252.5'-266.0' and 246.0'-282.5' respectively. This interval consists of altered tonalite. The alteration is characterised by a carbonate flooding of fractures (see Appendix IV - Thin Section ML-92-75-277). Pyrite mineralization is absent.

Thirty two intervals were selected for gold analysis, twenty in ML-92-65. No economic or significant values are reported.

Table 3.8a: LITHOLOGICAL SUMMARIES - ML-92-65, 75

ML-92-65		
<u>Footage</u>		<u>Lithology</u>
0.0	15.0	Overburden
15.0	96.8	Gabbro
96.8	99.3	Tonalite
99.3	104.1	Gabbro
104.1	106.0	Tonalite
106.0	138.8	Gabbro
138.8	140.8	Tonalite
140.8	168.0	Gabbro
168.0	175.7	Mafic Dyke
175.7	232.5	Gabbro
232.5	240.5	Sheared Gabbro
240.5	252.5	Tonalite
252.5	266.0	Altered Tonalite
266.0	275.5	Sheared Gabbro
275.5	325.7	Gabbro
325.7	335.6	Brecciated Sheared Gabbro
335.6	365.5	Gabbro
365.5	368.2	Brecciated Sheared Gabbro
368.2	409.0	Gabbro
409.0	417.8	Sheared Brecciated Gabbro
417.8	439.0	Gabbro
439.0		End of Hole
ML-92-75		
<u>Footage</u>		<u>Lithology</u>
0.0	29.0	Overburden
29.0	49.5	Gabbro
49.5	85.0	Porphyritic Basalt (Mafic Dike?)
85.0	159.0	Gabbro
159.0	190.0	Brecciated, Sheared Gabbro
190.0	211.5	Gabbro
211.5	214.0	Tonalite
214.0	232.0	Gabbro
232.0	234.5	Brecciated, Sheared Gabbro
234.5	246.0	Tonalite
246.0	282.5	Altered Tonalite
282.5	292.5	Brecciated, Sheared Gabbro
292.5	299.0	Gabbro
299.0		End of Hole

3.9 Section 88+00E (ML-92-68)

One drill hole (ML-92-68) collared at L88+00E, 27+00S facing south (azimuth 180°), dipping at -48°. This drill hole tested the western extension of the AZS. A lithological summary is presented in Table 3.9a, graphical representations are found in Figure 3.9b and Section Plan 9.

Table 3.9a: LITHOLOGICAL SUMMARY - ML-92-68

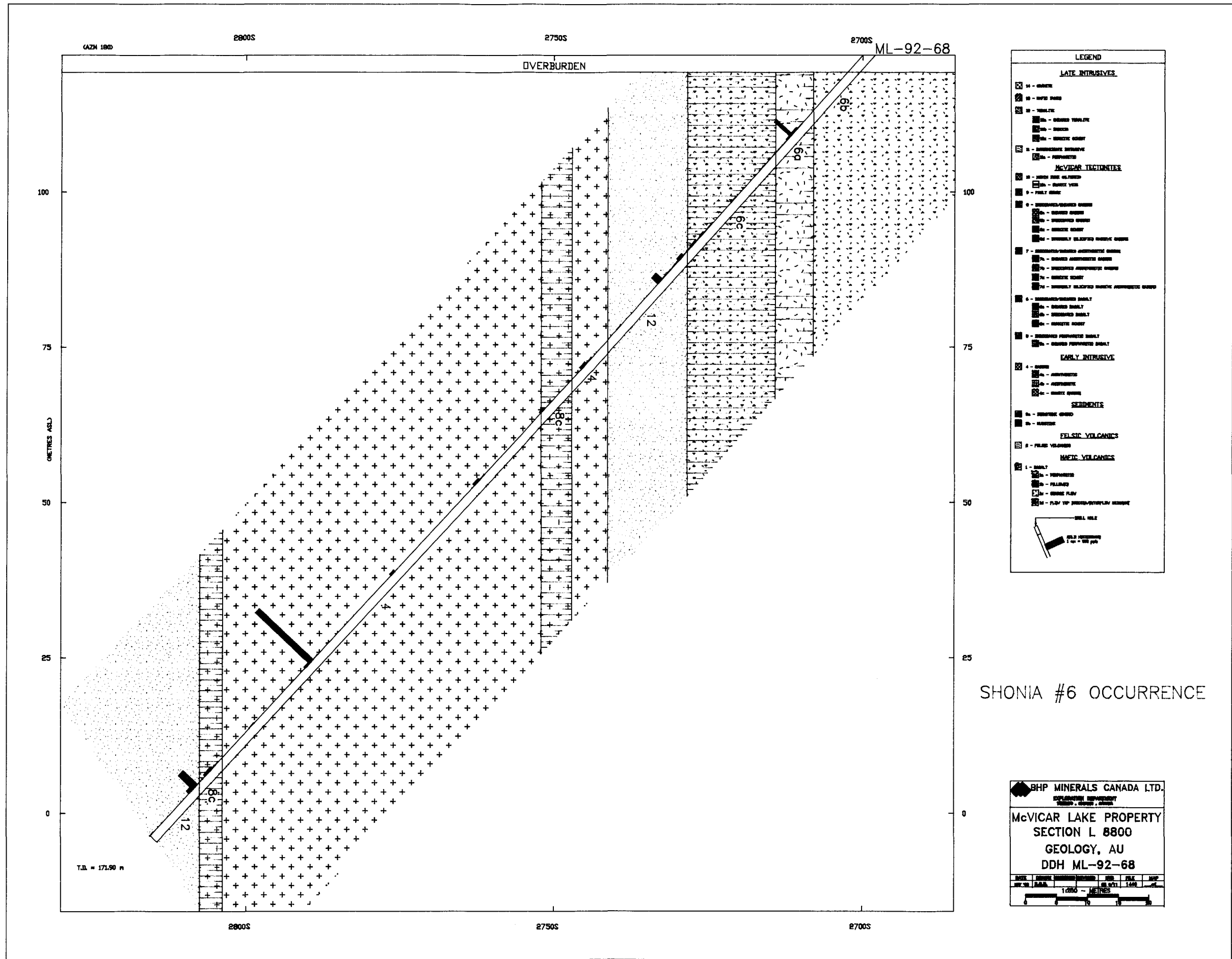
<u>Footage</u>		<u>Lithology</u>
0.0	12.0	Overburden
12.0	49.0	Brecciated Basalt
49.0	79.0	Sheared Basalt
79.0	149.0	Silicified-Sericitic Basalt
149.0	212.3	Tonalite (?)
212.3	240.0	Gabbro (?)
240.0	264.0	Gabbro (Sericitic)
264.0	513.0	Gabbro
513.0	530.7	Gabbro (?)
530.7	564.0	Tonalite
564.0		End of Hole

ML-92-68 targeted a broad zone and no target interval is defined. The core consists of sheared and brecciated basalt with numerous intervals of gabbro (anorthositic and massive), tonalite, and altered equivalents of each. Apple green mica is noted at approximately 100.0'.

Forty seven core intervals were selected for gold analysis. Five significant gold assays are reported from various intervals throughout the drill hole. The highest value reported (2400 ppb gold) is sample 59917 from 432.5'-435.5'. This interval is characterised by thin pyritic quartz veins in a carbonate altered gabbro host.

3.10 Section 87+00E (ML-92-64, ML-92-67)

Two drill holes ML-92-64 and ML-92-67 collared at 30+90S and 31+60S respectively on L87+00E. Both drill holes faced grid north (azimuth 360°), dipping at -52° and -49° respectively. The two



SHONIA #6 OCCURRENCE

BHP MINERALS CANADA LTD.
 EXPLORATION DEPARTMENT
 McVICAR LAKE PROPERTY
 SECTION L 8800
 GEOLOGY, AU
 DDH ML-92-68

DATE	DRAWN	REVISION	BY	DATE	MAP
1978	J.P.A.			18 OCT	1488

1:2000 METRES

FIGURE 3.9b

drill holes tested the down dip extensions of the Shonia Lake #1 gold occurrence coincident with an IP chargeability high. A lithological summary for each drill hole is presented in Table 3.10a, graphical representations are found in Figure 3.10b and Section Plan 10.

Table 3.10a: LITHOLOGICAL SUMMARIES - ML-92-64, 67

ML-92-64		
<u>Footage</u>		<u>Lithology</u>
0.0	35.0	Overburden
35.0	44.5	Sericite Altered Mafic Rock
44.5	49.0	Porphyritic Basalt
49.0	62.8	Tonalite
62.8	74.8	Sheared Gabbro
74.8	247.5	Tonalite
247.5	245.5	Sheared Gabbro
245.5	297.0	Quartz Veined Tonalite
297.0	300.1	Quartz Vein-Fault Gouge
300.1	317.5	Sheared Mafic Rock (Gabbro?)
317.5	359.3	Tonalite
359.3	439.0	Gabbro (Fault Gouge Intervals)
439.0		End of Hole
ML-92-67		
<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

ML-92-64 intersected the target zone through the interval 254.5'-297.0'. This interval consists of quartz veined and fractured tonalite with sulphide poor carbonate-chlorite-pyrite filled fractures. This drill hole also intersected several narrow mafic dykes.

Forty two intervals were selected for gold analysis. Eleven significant assays are reported from both drill holes, eight are from ML-92-64. The highest assay is 11,900 ppb gold (sample 59810) reported from a quartz-pyrite vein within a 1.8' interval. Additional assays of significance include 5,600 ppb, 3,000 ppb, and 1,200 ppb gold also from quartz-pyrite veins. Virtually all the elevated assays are associated with quartz-pyrite veining.

3.11 Section 86+75E (ML-92-76, ML-92-77)

Two drill holes ML-92-76 and ML-92-77 collared at 30+00S and 29+67S respectively on L87+00E. Both drill holes faced grid south (azimuth 180°), dipping at -52° and -48° respectively. The two drill holes tested the down dip extensions of the Shonia Lake #1 gold occurrence coincident with an IP chargeability high. A lithological summary for each drill hole is presented in Table 3.11a, graphical representations are found in Figure 3.11b and Section Plan 11.

Both drill holes collared into tonalite with few intervals of fine chloritic mafic dykes. On this section the tonalite intrusive is fractured with carbonate-chlorite-pyrite filled and coated fractures. Quartz veins are common with approximately 50% with pyrite.

Thirty-three intervals were selected for gold analysis, twenty from ML-92-76. The highest assay reported in drill hole ML-92-76 is 4,300 ppb gold (sample 60642) from quartz-pyrite vein hosted by tonalite. Four additional samples reported values ranging from 1,100 to 2,900 ppb gold all from intervals with quartz-pyrite veins.

Table 3.11a: LITHOLOGICAL SUMMARIES - ML-92-76, 77

ML-92-76

<u>Footage</u>		<u>Lithology</u>
0.0	10.0	Overburden
10.0	147.0	Tonalite
147.0	180.1	Mafic Dyke
180.1	356.8	Tonalite
356.8	369.6	Sericite Schist (Sheared Tonalite)
369.6	399.0	Tonalite
399.0		End of Hole

ML-92-77

<u>Footage</u>		<u>Lithology</u>
0.0	5.0	Overburden
5.0	229.0	Tonalite
229.0		End of Hole

3.12 Section 86+50E (ML-92-66)

One drill hole (ML-92-66) collared at L86+50E, 31+00S facing north (azimuth 360°), dipping at -47°. This drill hole tested the western extension of the Shonia #1 quartz vein occurrence. A lithological summary is presented in Table 3.12a, graphical representations are found in Figure 3.12b and Section Plan 12.

ML-92-66 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. No single vein is recognized as the down dip extension of the Shonia #1 vein.

Twenty-one core intervals were selected for gold analysis. Twelve significant gold assays are reported from various intervals throughout the drill hole. The highest value reported is 24,830 ppb gold (sample 59859) from 193.5'-197.0', this is also the highest assay reported during this phase of diamond drilling. Three additional samples report values ranging from 1,100 ppb to

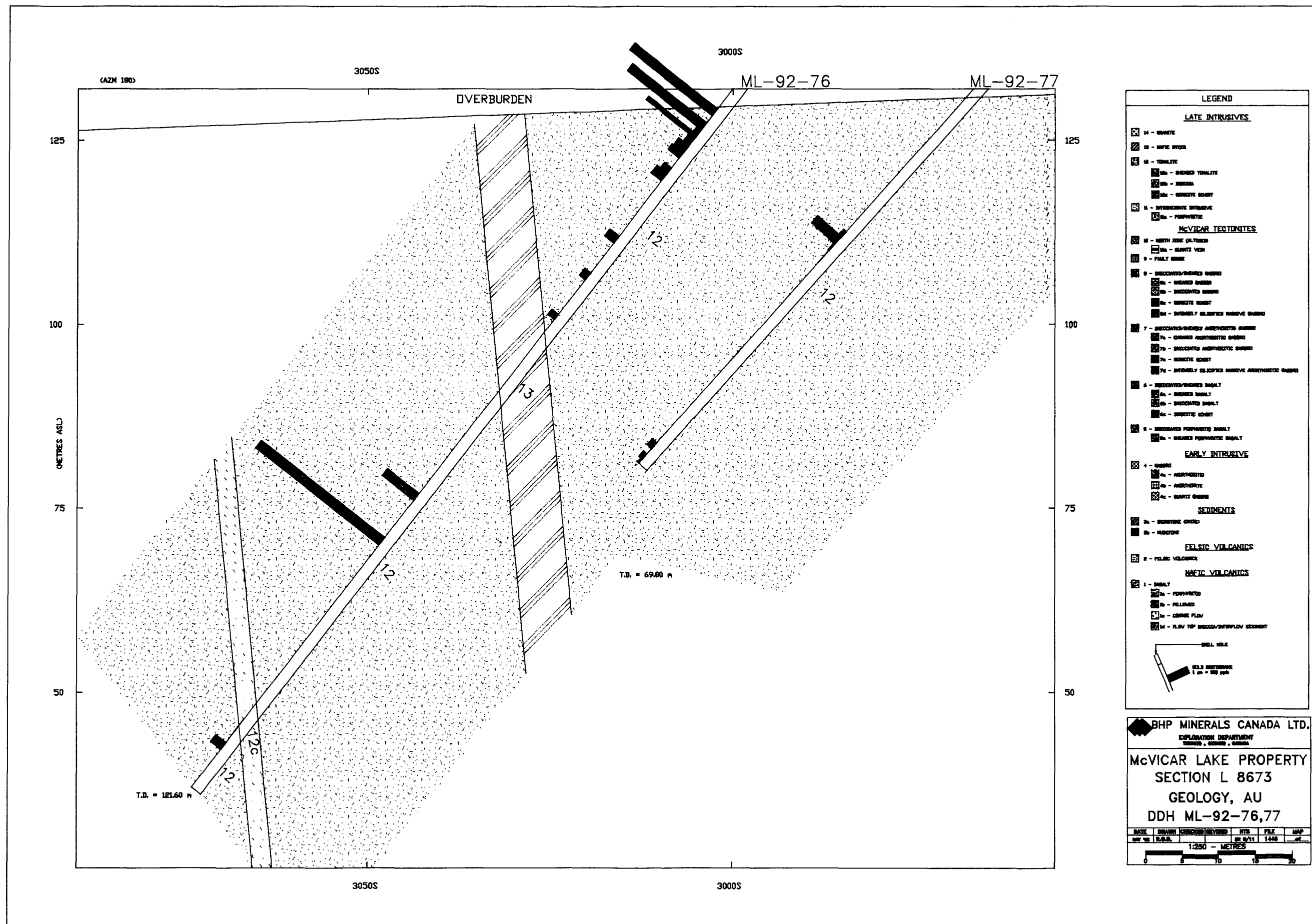


FIGURE 3.11b

1,400 ppb gold. All the elevated gold values are reported from quartz veins within the tonalite intrusive.

Table 3.12a: LITHOLOGICAL SUMMARY - ML-92-66

<u>Footage</u>		<u>Lithology</u>
0.0	10.0	Overburden
10.0	48.0	Tonalite
48.0	52.0	Sheared Tonalite
52.0	118.7	Tonalite
118.7	124.4	Sheared Gabbro
124.4	139.1	Tonalite
139.1	146.5	Sheared Gabbro
146.5	160.5	Tonalite
160.5	167.6	Sheared Gabbro
167.6	251.0	Tonalite
251.0	266.1	Mafic Dyke
266.1	339.0	Tonalite
339.0		End of Hole

RESULTS

Collar elevations are approximations determined from published topographic maps (1:50,000, NTS 52 O/11). The gently rolling terrain was considered for calculations to target depth and for section plotting. Target attitude is, in part, determined from section constructions. Additional information is provided by attitude measurements obtain from oriented core samples. The oriented core measurements were acquired with the aid of a Core Tech^{PAIPEM} orientation system.

Appendix V contains an edited excerpt entitled "Anatomy of the Altered Zone" (Thomas, 1988) in which four lithological elements (1-4), common to the altered zone, are discussed. Intersections in the vicinity of the Shonia #6 are comprised of these same four elements plus a fifth element (5) introduced during 1991 (Bonner, 1991). The five characteristic elements are:

1. Intensely sheared mafic volcanics
2. Intensely foliated apple green mica
3. Minor intermediate intrusive
4. Massive to semi-massive quartz.
5. Intensely silicified basalt

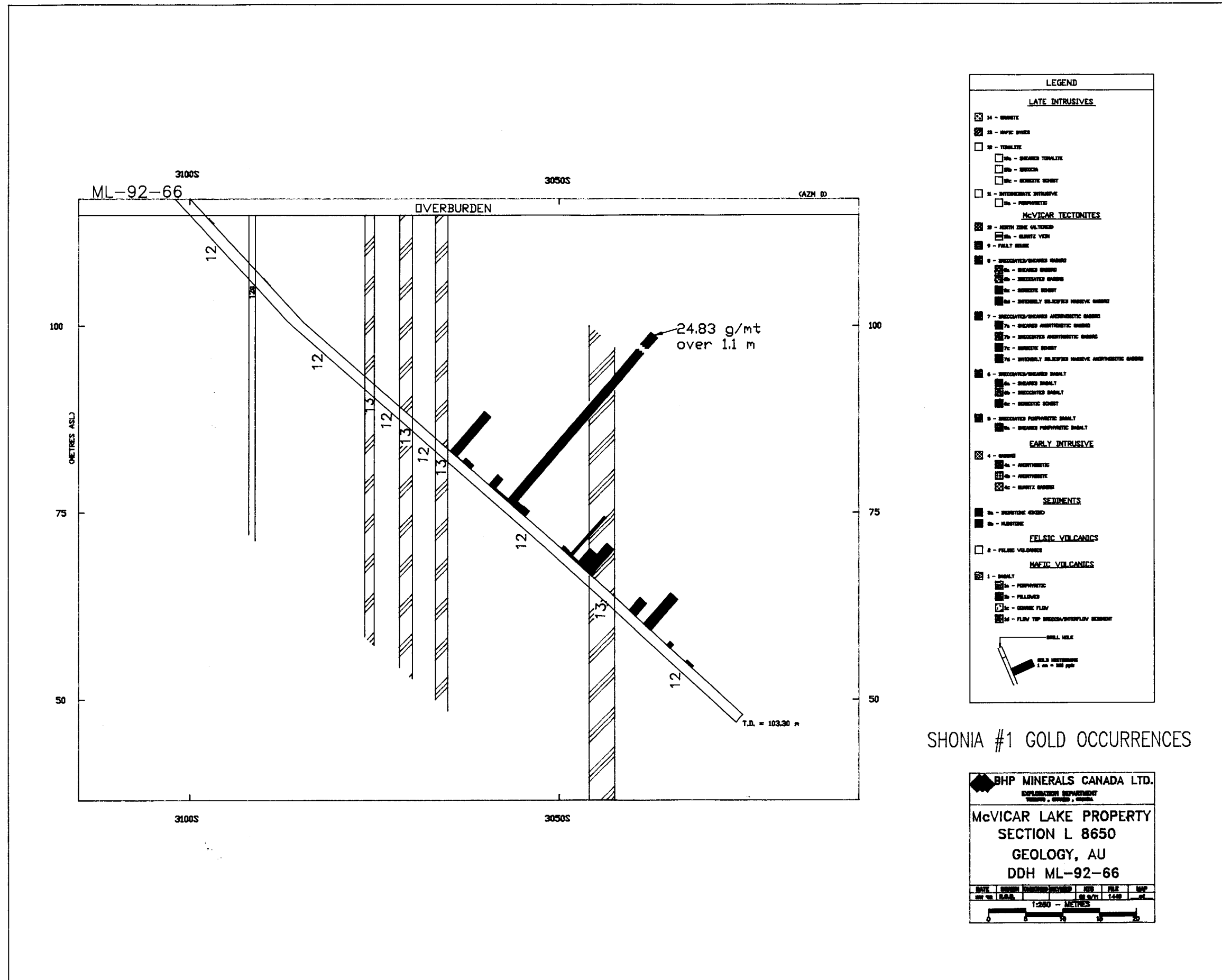


FIGURE 3.12b

Gold mineralization is essentially restricted to the altered zone and in close proximity to the Shonia #1 occurrence. Geological sections with gold histograms have been plotted (1:200) and appended for reference (Section Plans 2-12).

All anomalous gold (>100 ppb) assays reported from the McVicar Lake drill program are tabulated in Table 4.1a (n=65), a complete report of all the analytical results has been included in Appendix II (n=279).

Table 4.1a: ANOMALOUS GOLD INTERVALS - McVICAR LAKE 1991

HOLE #	SAMPLE	INTERVAL (M)	LITHOLOGY	AU
ML-92-64	59802	10.8 - 11.7	Sericite Schist	1200
ML-92-64	59809	37.7 - 38.5	Tonalite	560
ML-92-64	59810	41.4 - 41.9	Tonalite (Qtz Py Vn)	11900
ML-92-64	59811	42.8 - 43.7	Tonalite (Qtz Py Vn)	5600
ML-92-64	59812	46.9 - 48.1	Tonalite (Qtz Py Vn)	300
ML-92-64	59813	52.3 - 53.8	Tonalite (Qtz Py Vn)	140
ML-92-64	59814	72.1 - 72.9	Sheared Tonalite (Qtz Vn)	260
ML-92-64	59815	72.9 - 73.4	Quartz Vein	3000
ML-92-66	59853	48.9 - 50.0	Sheared Gabbro	1400
ML-92-66	59855	51.1 - 52.5	Tonalite (Qtz Vn)	120
ML-92-66	59856	55.8 - 56.7	Tonalite	350
ML-92-66	59859	59.0 - 60.1	Tonalite (Qtz Py Vn)	24830
ML-92-66	59860	60.1 - 61.2	Tonalite	160
ML-92-66	59861	61.2 - 62.2	Tonalite	180
ML-92-66	59864	70.2 - 70.5	Quartz Vein	1400
ML-92-66	59866	71.7 - 72.9	Silicified Tonalite	510
ML-92-66	59867	72.9 - 74.1	Sil Tonalite (Qtz Vn)	910
ML-92-66	59868	81.1 - 82.3	Sil Tonalite	450
ML-92-66	59869	83.8 - 85.1	Tonalite (Qtz Vn)	1100
ML-92-66	59870	88.1 - 88.7	Tonalite (Py Str)	120
ML-92-67	59877	30.8 - 32.0	Tonalite	300
ML-92-67	59882	91.2 - 91.8	Tonalite (Qtz Vn)	420
ML-92-67	59883	100.9 - 101.8	Tonalite	670
ML-92-68	59886	17.1 - 17.6	Sheared Basalt	690
ML-92-68	59906	48.5 - 49.5	Sericitic Tonalite	270
ML-92-68	59917	131.9 - 132.8	Gabbro (Quartz Vein)	2400
ML-92-68	59926	159.3 - 160.4	Sericitic Gabbro (?)	650
ML-92-68	59927	160.4 - 161.3	Sericitic Gabbro (?)	110

HOLE #	SAMPLE	INTERVAL (M)	LITHOLOGY	AU
ML-92-70	59939	75.0 - 75.9	Brecciated Basalt	280
ML-92-70	59940	75.9 - 77.0	Brecciated Basalt	190
ML-92-70	59949	148.2 - 149.1	Brecciated Basalt	400
ML-92-70	59950	149.1 - 149.8	Brecciated Basalt	830
ML-92-72	59986	22.9 - 24.2	Apple Green Mica Schist	2300
ML-92-72	59993	34.9 - 36.3	Bre Sh Gabbro (AGM)	720
ML-92-73	59999	66.8 - 68.0	Sheared Brecciated Basalt	140
ML-92-74	60612	22.6 - 23.8	Sheared Brecciated Basalt	2300
ML-92-74	60613	28.4 - 30.2	Brecciated Basalt	460
ML-92-74	60614	30.2 - 31.7	Brecciated Basalt	560
ML-92-76	60628	3.4 - 4.6	Tonalite (Qtz Py Vn)	2900
ML-92-76	60630	5.8 - 7.0	Tonalite (Qtz Py Vn)	2600
ML-92-76	60631	7.0 - 7.9	Tonalite	150
ML-92-76	60632	7.9 - 8.5	Tonalite (Qtz Py Vn)	1700
ML-92-76	60633	8.5 - 9.8	Tonalite	210
ML-92-76	60634	9.8 - 11.0	Tonalite (Qtz Py Str)	350
ML-92-76	60635	11.0 - 11.9	Tonalite (Qtz Py Str)	400
ML-92-76	60636	13.6 - 14.6	Tonalite (Qtz Py Vn)	240
ML-92-76	60637	14.6 - 15.9	Tonalite (Qtz Py Vn)	360
ML-92-76	60638	25.4 - 26.6	Tonalite (Py Chl Frac)	330
ML-92-76	60639	31.7 - 32.9	Tonalite (Py Chl Frac)	210
ML-92-76	60640	38.9 - 39.8	Tonalite (Qtz Py Vn)	230
ML-92-76	60641	69.8 - 71.0	Tonalite (Qtz Py Vn)	1100
ML-92-76	60642	77.4 - 78.7	Tonalite (Qtz Py Vn)	4300
ML-92-76	60647	112.7 - 113.9	Tonalite (Qtz Vn)	350
ML-92-77	60648	26.1 - 27.1	Altered Tonalite	100
ML-92-77	60649	27.1 - 28.4	Altered Tonalite	870
ML-92-77	60656	64.8 - 65.8	Tonalite (Qtz Py Frac)	170
ML-92-77	60658	66.8 - 67.8	Tonalite (Qtz Py Frac)	130
ML-92-78	60665	94.2 - 94.5	Quartz Vein	1200
ML-92-78	60668	97.3 - 98.8	Sheared Basalt	140
ML-92-78	60670	99.4 - 100.6	Sulphide Zone (Qtz Vn)	1300
ML-92-78	60671	100.6 - 103.2	Apple Green Mica Schist	120
ML-92-78	60673	106.3 - 109.3	Apple Green Mica Schist	330
ML-92-78	60674	109.3 - 109.9	Quartz Vein (Bull)	130
ML-92-78	60675	109.9 - 111.0	Apple Green Mica Schist	580
ML-92-78	60676	111.0 - 112.5	Apple Green Mica Schist	420

Abbreviations

AGM - apple green mica	Bre - brecciated
Qtz Vn - quartz vein	Sh - sheared
Sul Zn - sulphide rich zone	MV - basalt
Gb - gabbro	An - anorthosite
Ser - sericite	Frac - fracture(s)
Str - stringer(s)	

Gold mineralization is dependent on the presence of pyrite, quartz-pyrite and/or quartz veining. The gold is considered to be coarse grained in the Shonia Lake area as demonstrated by the report of screen analysis. Table 4.2a is provided to demonstrate the existence of the "nugget" effect.

Table 4.2a: REPORT OF SCREENED ANALYSIS - SHONIA LAKE

<u>HOLE #</u>	<u>SAMPLE</u>	<u>-140 opT</u>	<u>+140 opT</u>	<u>TOT opT</u>	<u>FA/AA</u>
ML-92-74	60612	0.012	0.005	0.010	0.035
ML-92-76	60628	0.120	0.032	0.131	0.085
	60630	0.070	<u>0.904</u>	0.082	0.076
	60641	0.035	0.020	0.034	0.032
	60642	0.140	0.117	0.139	0.126
	60647	0.003	0.002	0.003	0.011
ML-92-77	60649	0.014	0.002	0.013	0.025
ML-92-78	60665	0.041	0.027	0.039	0.035
	60670	0.038	0.076	0.047	0.038
	60675	0.020	0.028	0.022	0.016
	60676	0.012	0.019	0.014	0.012

Sample 60630 reports 0.904 opT from a small sample weight (see Appendix II) thus a "nugget" was captured.

Oriented core measurements indicate that at two vein sets exist about the Shonia #1 gold occurrence each trending 039/50 and 068/76 respectively. The gold-vein set relationship is not yet established, however, the 068/76 set is auriferous and 039/50 set may be.

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), and the Shonia Lake #1 gold occurrence (1992).

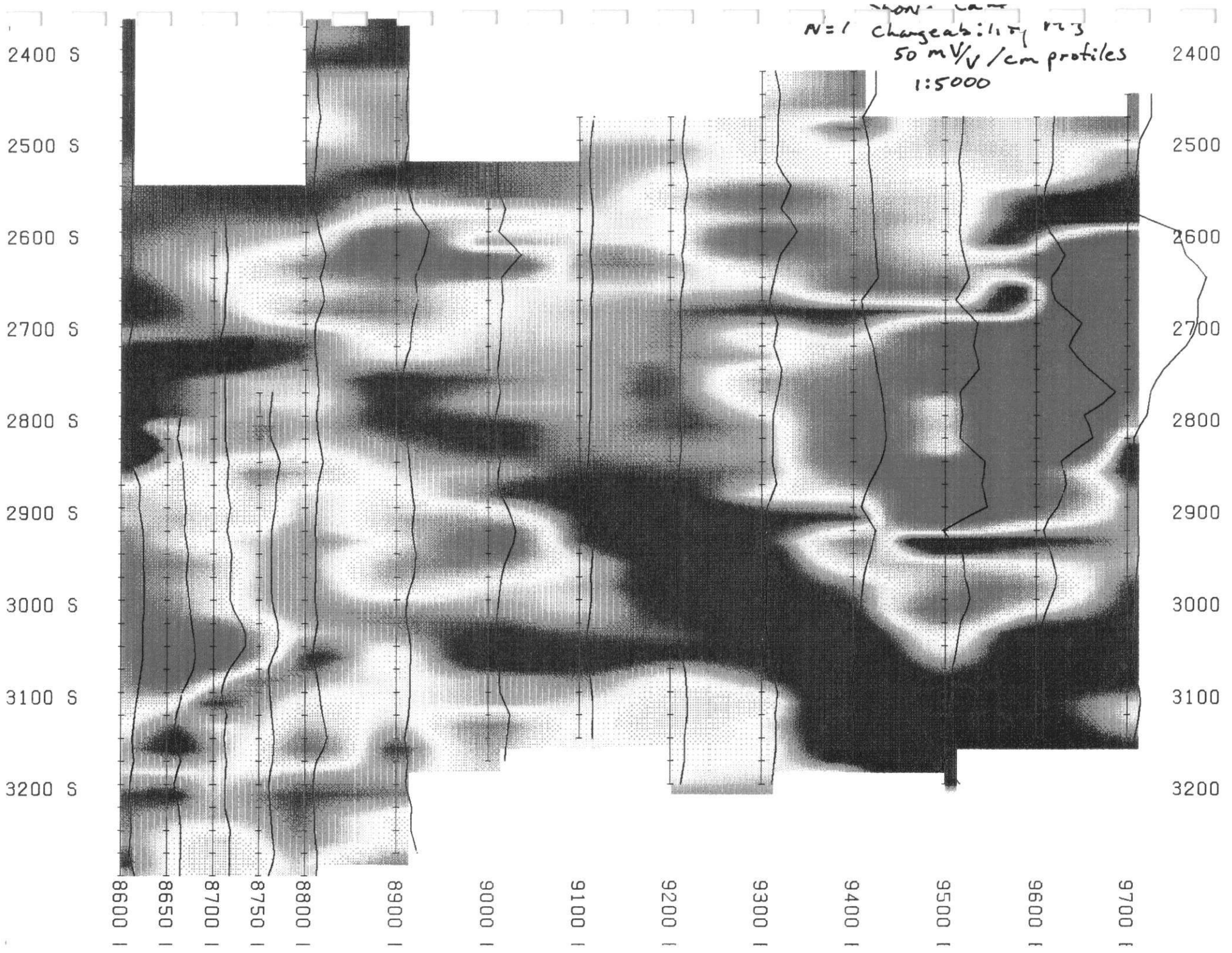
Lode gold mining occurs approximately 27 kilometres to the southeast at the Golden Patricia Mine (584,000 tons @ 0.575 oz/ton)(Northern Miner, 1989). The location of this shear zone hosted-quartz vein deposit is attributable to the development of a splay fault migrating away from the Bearhead Fault Zone (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.

Gold also occurs at the margin of a late tonalitic intrusive in the Shonia Lake area. Extensional auriferous quartz-pyrite veins appear unrelated to the AZS's tectonics, however, an apophysis is recognised within the AZS at Shonia Lake proper (the Shonia Grid baseline area).

The six diamond drill holes completed about the Shonia Lake #1 gold occurrence intersected several high grade gold veins (0.715 opT/3.6'). The coincident IP effect, initially targeted, is attributable to a widespread chlorite-pyrite-carbonate coated fracture system and to the minor disseminated pyrite and pyritic-quartz veins occurring within the intrusive. The amplitude attributed to the auriferous quartz-pyrite veins is not discernable. However, the peak amplitude of this chargeability anomaly is coincident with the field observation of an approximately 200 metre quartz vein halo surrounding the Shonia Lake #1 vein (Bonner, 1991b).

The IP anomaly, centred on the Shonia #1 vein, trends east-west and appears to diminish in the same general direction (see Figure 5.1a). The drill array completed during this phase intermittently tested the central portion of this target. Furthermore, there are indications of additional chargeability peaks to the southeast of the Shonia #1 vein and at the survey boundaries.

At Apple Island a series of drill holes has located a very small intensely altered auriferous dilation (2400 ppb/4.26'). This dilation is coincident with an interpreted flexure on the AZS.



NON-CAM
N=1 Chargeability 1.73
50 mV/V/cm profiles
1:5000

2400 S
2500 S
2600 S
2700 S
2800 S
2900 S
3000 S
3100 S
3200 S

2400
2500
2600
2700
2800
2900
3000
3100
3200

8600 I
8650 I
8700 I
8750 I
8800 I
8900 I
9000 I
9100 I
9200 I
9300 I
9400 I
9500 I
9600 I
9700 I

Previous testing of flexure zones (three to date) indicate that the gold is dependent on the presence of sulphide and independent of the flexure size. The limited size of the Apple Island Flexure is an indication of its limited potential.

Just west of the North Flexure the AZS trends under McVicar Lake. The single test hole (ML-92-78) intersected seventy three feet (true thickness) of intensely altered apple green sericite schist with several intervals of pyritic quartz vein. An AEM target in close proximity to the AZS intersected a significantly thicker AZS than expected. At this point it is not clear if the AEM is related to this AZS intersection, however, the AZS does not appear to diminish west of the North Flexure as expected but in fact appears to improve. At the NF the maximum true thickness of the AZS is fifty five feet. One possible explanation is a NF plunge to the northwest first suggested following the 1991 drill campaign (Bonner, 1991a).

Previously, diamond drilling focused on the Altered Zone Dilation and the North Flexure Dilation. This phase of drilling continued to test the AZS to the west and addressed the occurrence of gold mineralization within the tonalitic Shonia Lake intrusive. Systematic drilling at the Shonia #1 showing intersected high grade gold associated with pyritic quartz veins (0.715 opT/3.61') in each of the five drill holes. Along with the encouraging results at Shonia Lake, a somewhat unexpected thick intersection 250 metres west of the NF does elude to the existence of a large northwest plunging gold bearing dilation zone in proximity to the NF (0.239 opT/6.6').

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**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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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 BDBGM 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.



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REPORT OF DIAMOND DRILL ACTIVITIES

McVICAR LAKE, ONTARIO (1446)

GENERAL INFORMATION

1.1 Introduction

This report addresses the diamond drilling efforts of BHP MINERALS CANADA 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

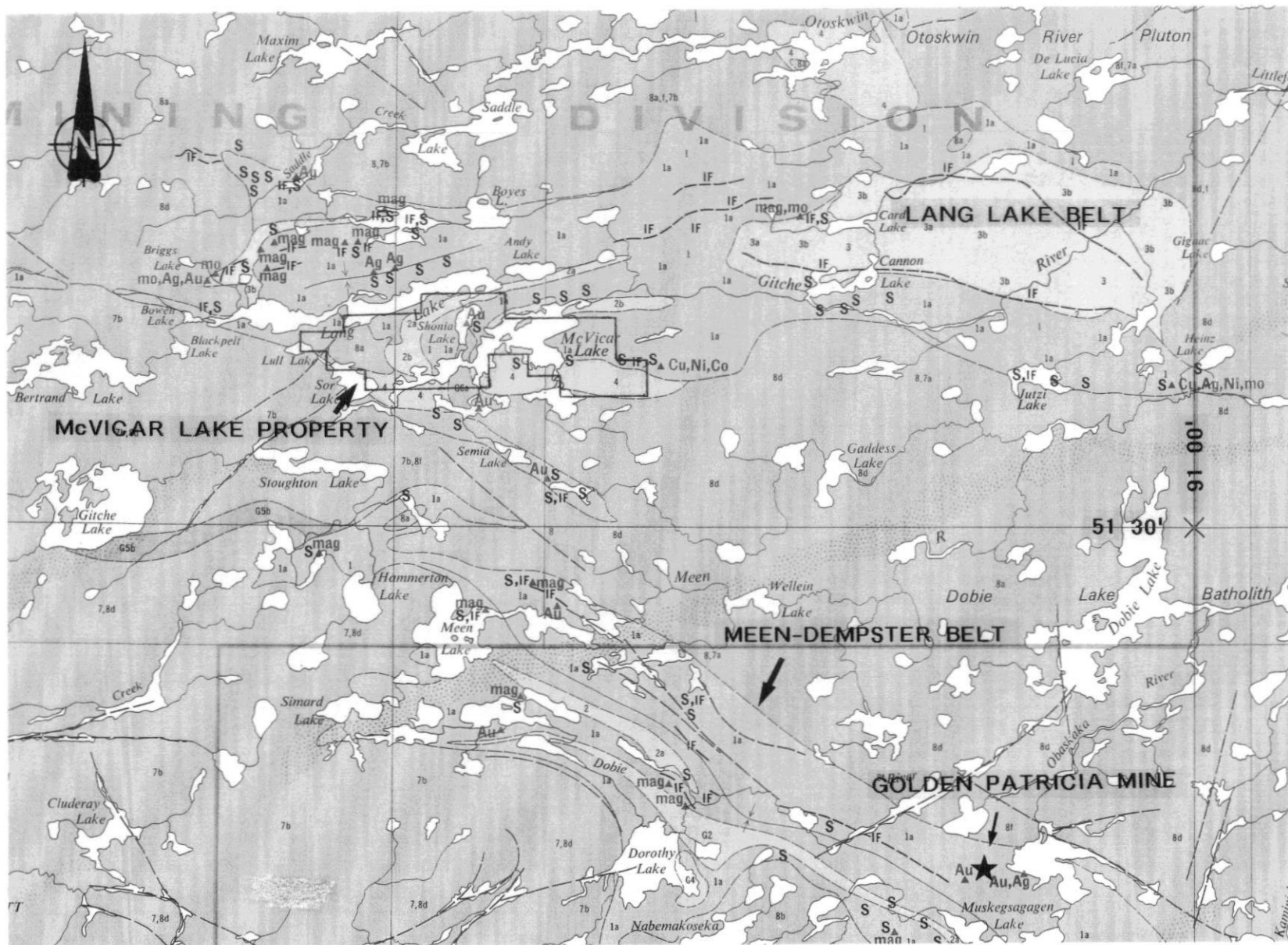


Figure 1.2a: Location Map (from Sage and Breaks, 1982)

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

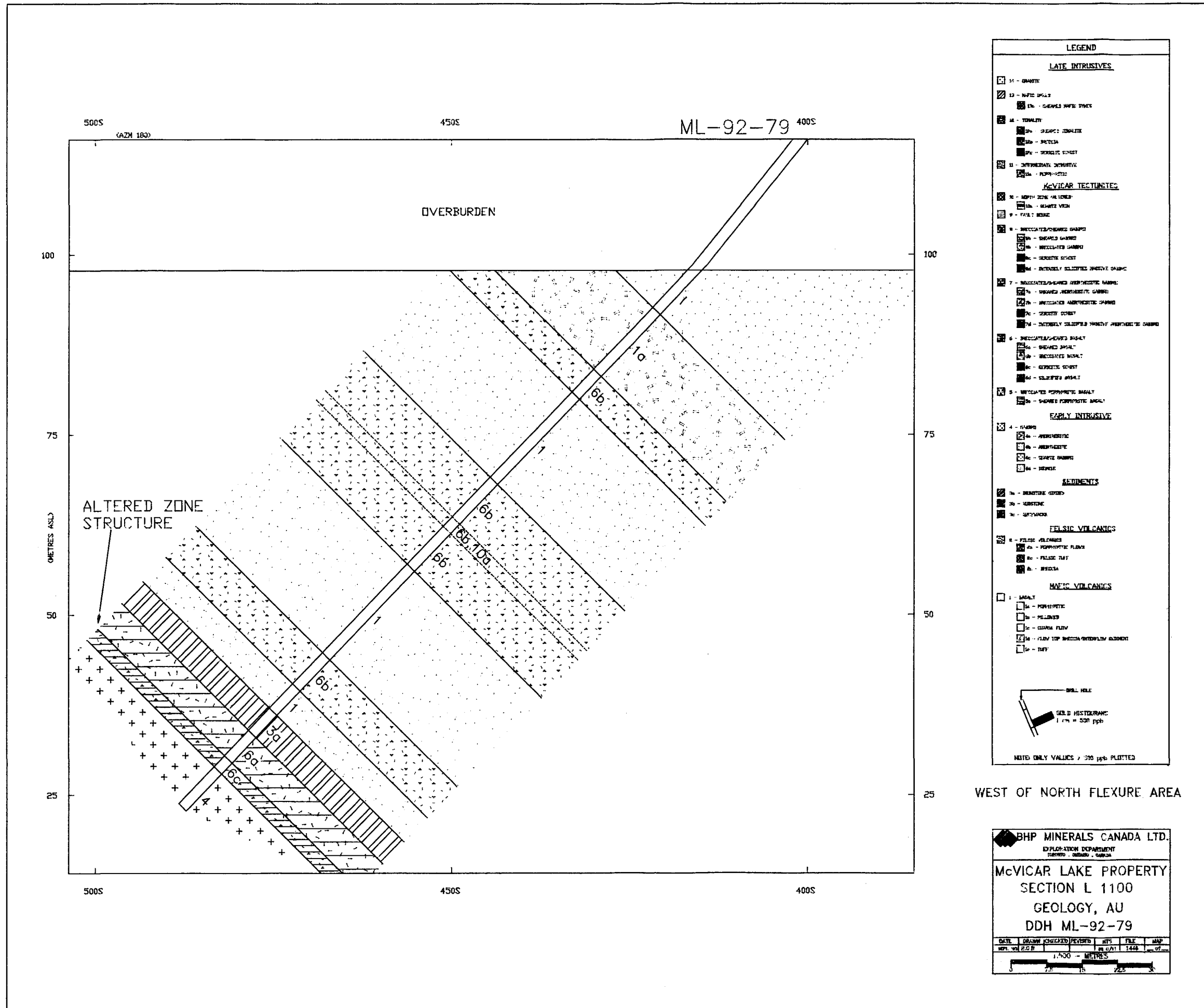


Figure 2.2b Section 11+00E (ML-92-79)

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.

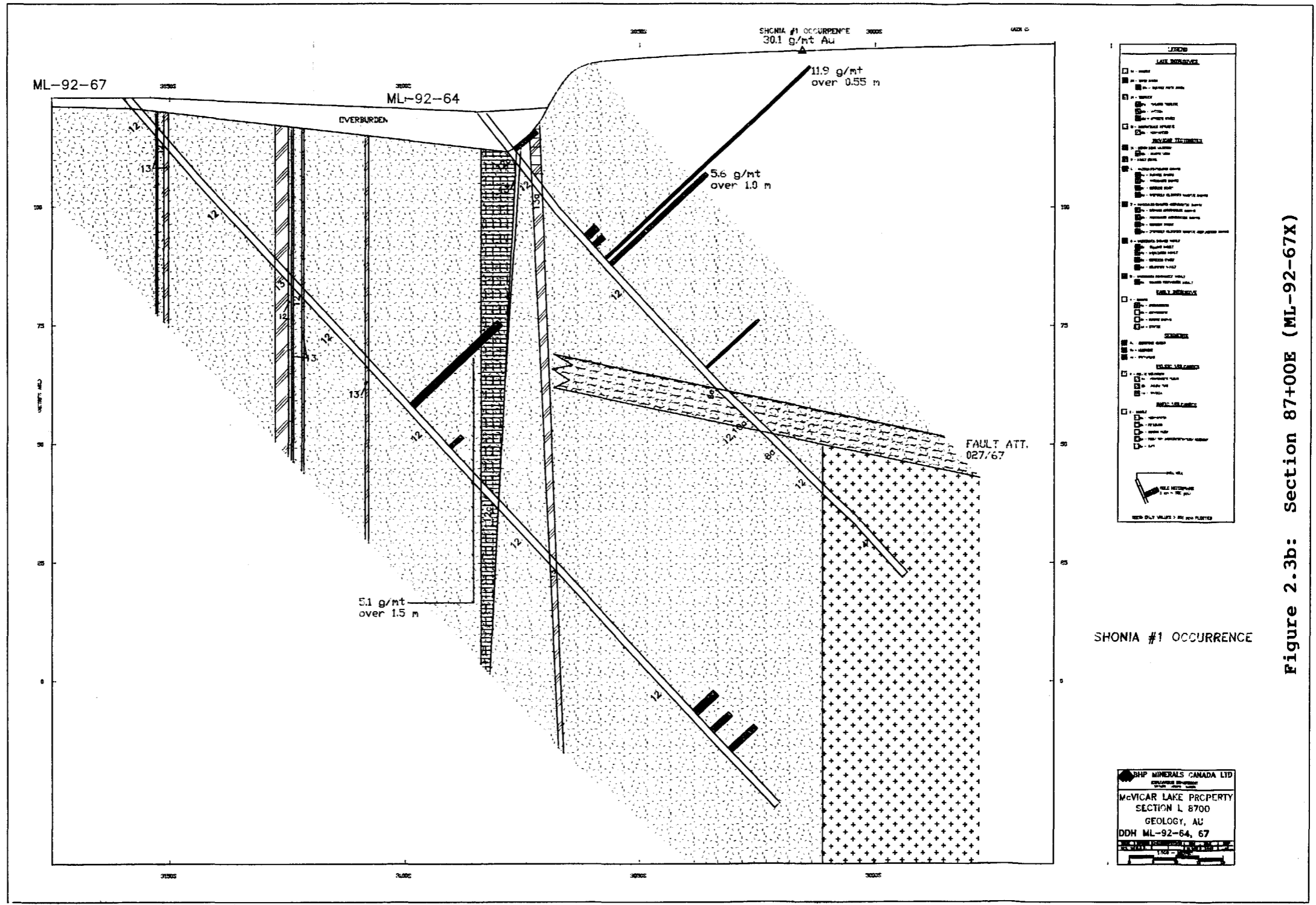


Figure 2.3b: Section 87+00E (ML-92-67X)

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.

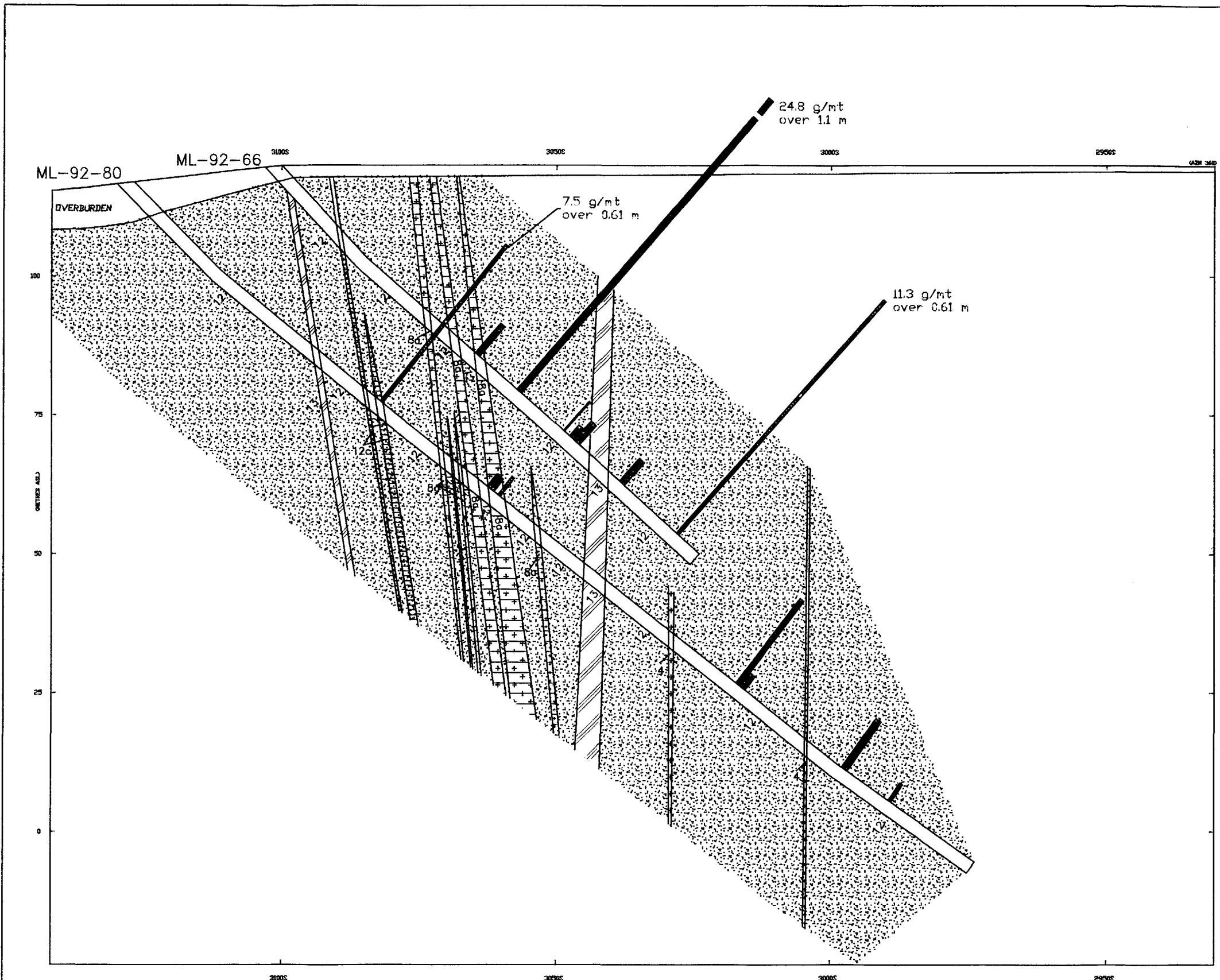
124 intervals were selected for gold analysis. Three significant gold assays are reported. Sample 8055 reports 7250 ppb gold from an interval described as sericite schist with minor quartz-pyrite veining. This interval contains a single quartz veinlet approximately one centimetre wide with pyrite and 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	25.0	Overburden
25.0	143.4	Tonalite
143.4	149.0	Mafic Dyke
149.0	183.0	Tonalite
183.0	186.0	Sericite Schist
186.0	192.3	Tonalite
192.3	198.5	Sericite Schist
198.5	240.5	Tonalite
240.5	244.5	Sheared Gabbro
244.5	250.0	Tonalite
250.0	251.5	Sheared Gabbro
251.5	255.5	Tonalite
255.5	258.0	Sheared Gabbro
258.0	262.0	Tonalite
262.0	270.7	Sheared Gabbro
270.7	278.0	Tonalite
278.0	291.0	Sheared Altered Gabbro
291.0	313.0	Tonalite
313.0	317.5	Sheared Altered Gabbro
317.5	351.3	Tonalite
351.3	367.0	Mafic Dyke
367.0	415.0	Tonalite
415.0	419.0	Gabbro
419.0	519.0	Tonalite
519.0	521.0	Gabbro
521.0	644.0	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

- 14 - GRANITE
- 15 - MAFIC DYKES
 - 15a - DIAGENIC MAFIC DYKES
- 17 - TONALITE
 - 17a - DIAGENIC TONALITE
 - 17b - BRECCIA
 - 17c - SERICITIC SCHIST
- 18 - INTERMEDIATE INTRUSIVE
 - 18a - PORPHYRITIC

McVICAR TECTONITES

- 10 - NORTH ZONE ALTERED
 - 10a - QUARTZ VEIN
- 9 - FAULT BREAK
- 8 - UNDEVELOPED/SHEARED GABBRO
 - 8a - SHEARED GABBRO
 - 8b - UNDEVELOPED GABBRO
 - 8c - SERICITIC SCHIST
 - 8d - INTERMEDIATELY SELECTED MASSIVE GABBRO
- 7 - UNDEVELOPED/SHEARED ANORTHOCLASITIC GABBRO
 - 7a - SHEARED ANORTHOCLASITIC GABBRO
 - 7b - UNDEVELOPED ANORTHOCLASITIC GABBRO
 - 7c - SERICITIC SCHIST
 - 7d - INTERMEDIATELY SELECTED MASSIVE ANORTHOCLASITIC GABBRO
- 6 - UNDEVELOPED/SHEARED BASALT
 - 6a - SHEARED BASALT
 - 6b - UNDEVELOPED BASALT
 - 6c - SERICITIC SCHIST
 - 6d - SELECTED BASALT
- 5 - UNDEVELOPED PORPHYRITIC BASALT
 - 5a - SHEARED PORPHYRITIC BASALT

EARLY INTRUSIVE

- 4 - GABBRO
 - 4a - ANORTHOCLASITIC
 - 4b - ANORTHOCLASITIC
 - 4c - QUARTZ GABBRO
 - 4d - SERICITE

SEDIMENTS

- 2a - SANDSTONE (COARSE)
- 2b - MUDSTONE
- 2c - BRECCIA

FELSIC VOLCANICS

- 3 - FELSIC VOLCANICS
 - 3a - PORPHYRITIC FLOWS
 - 3b - FELSIC TUFF
 - 3c - BRECCIA

MAFIC VOLCANICS

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

WELL MARK

GOLD HISTOGRAMS
1 cm = 500 ppb

NOTE: ONLY VALUES > 300 ppb PLOTTED

SHONIA #1 OCCURRENCE

BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
VANCOUVER, CANADA

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

DATE	DRAWN	CHECKED	REVISED	HTS	FILE	MAP
08/01/14	J.G.B.					

1:500 METRES

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.

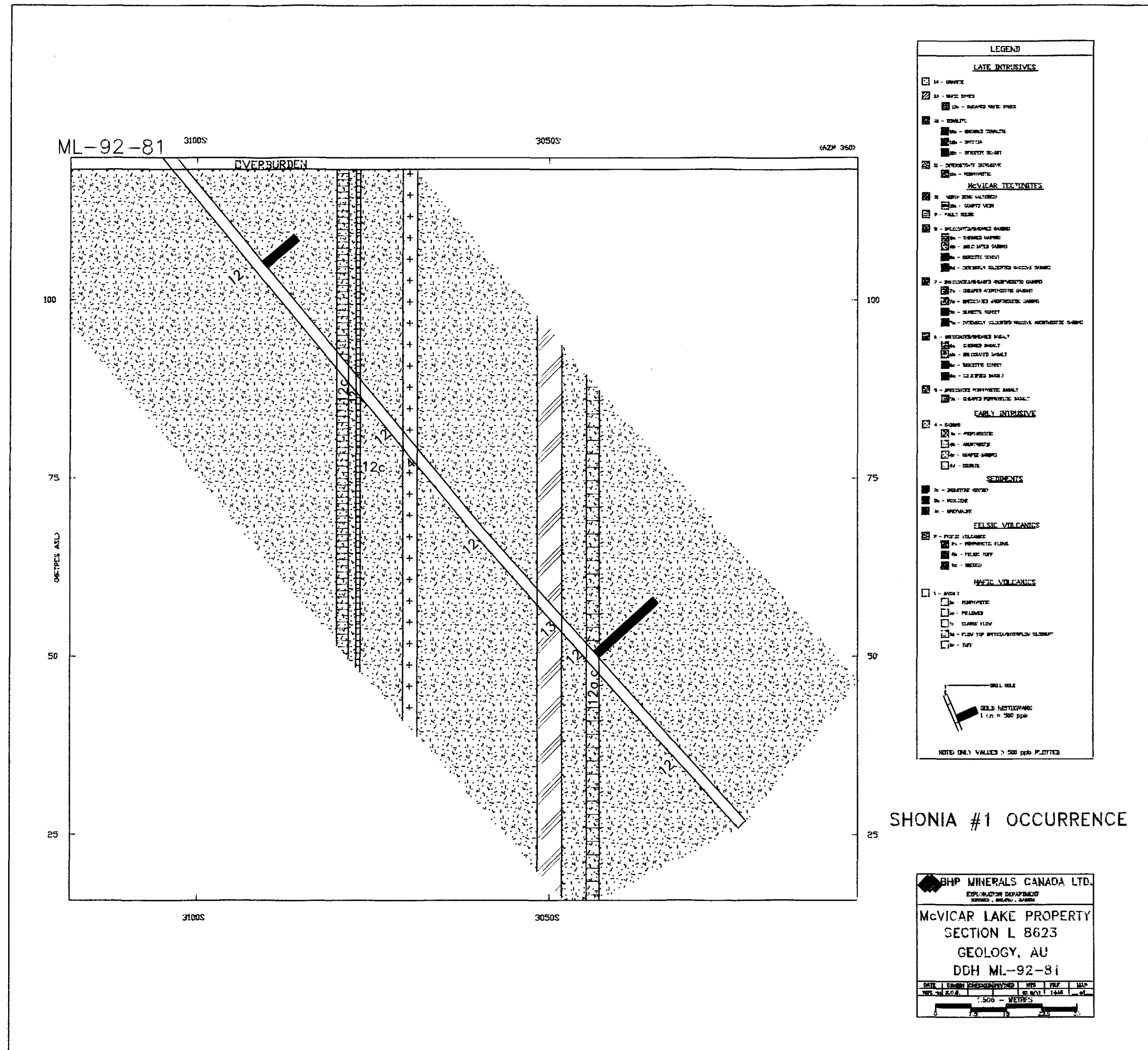


Figure 2.6b Section 86+25E (ML-92-81)

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.

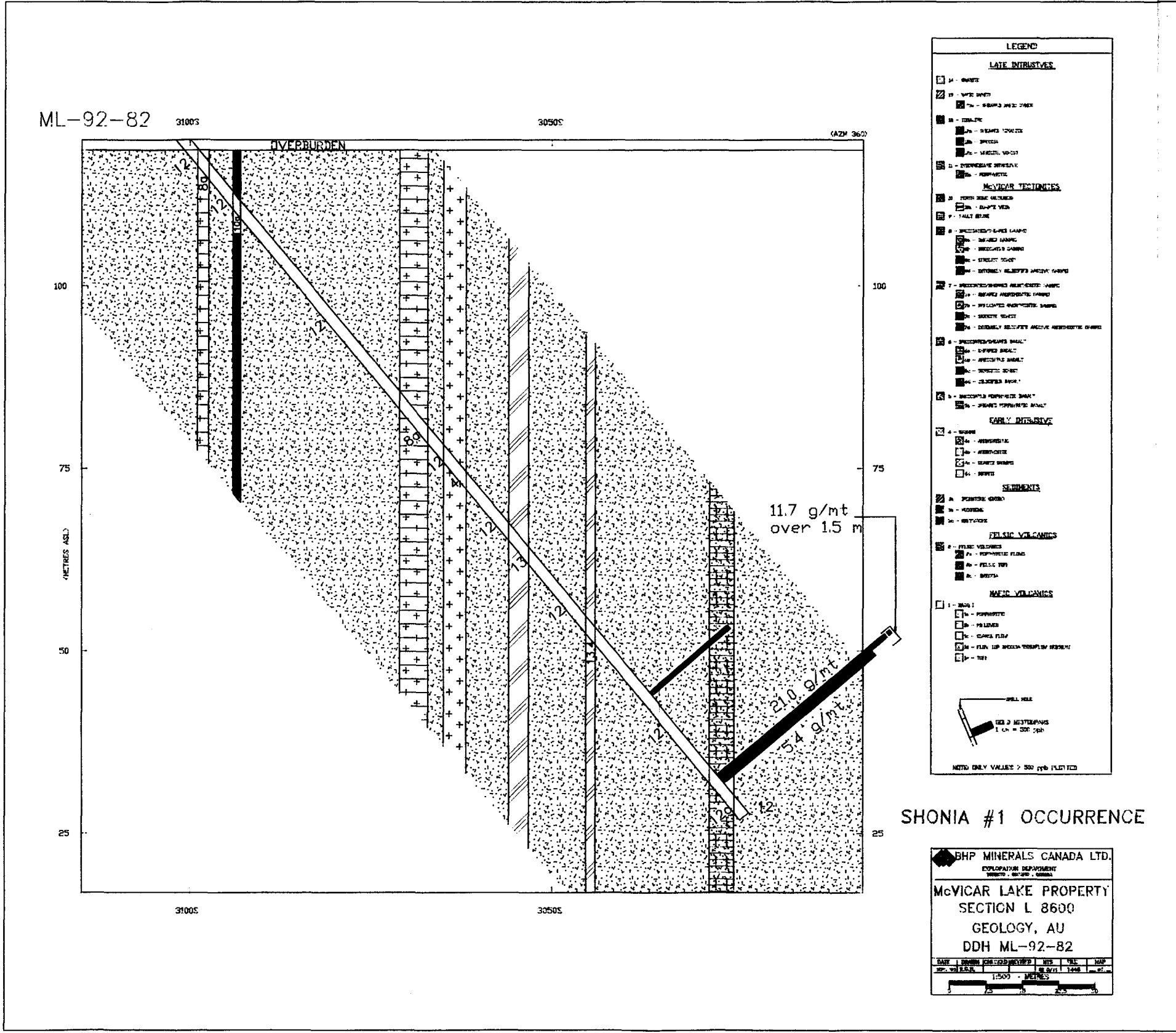


Figure 2.7b Section 86+00E (ML-92-82)

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.

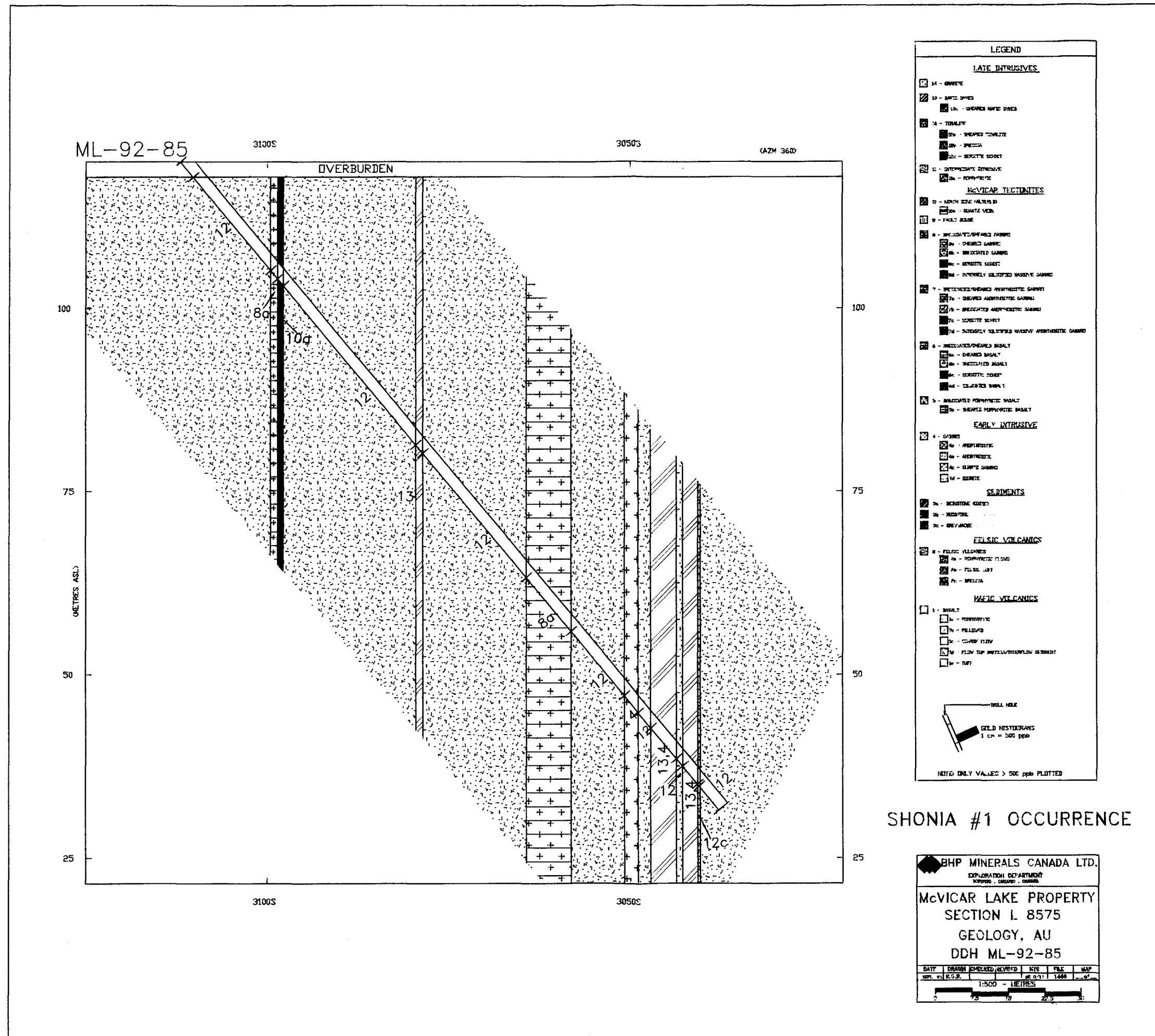


Figure 2.8b Section 85+75E (ML-92-85)

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

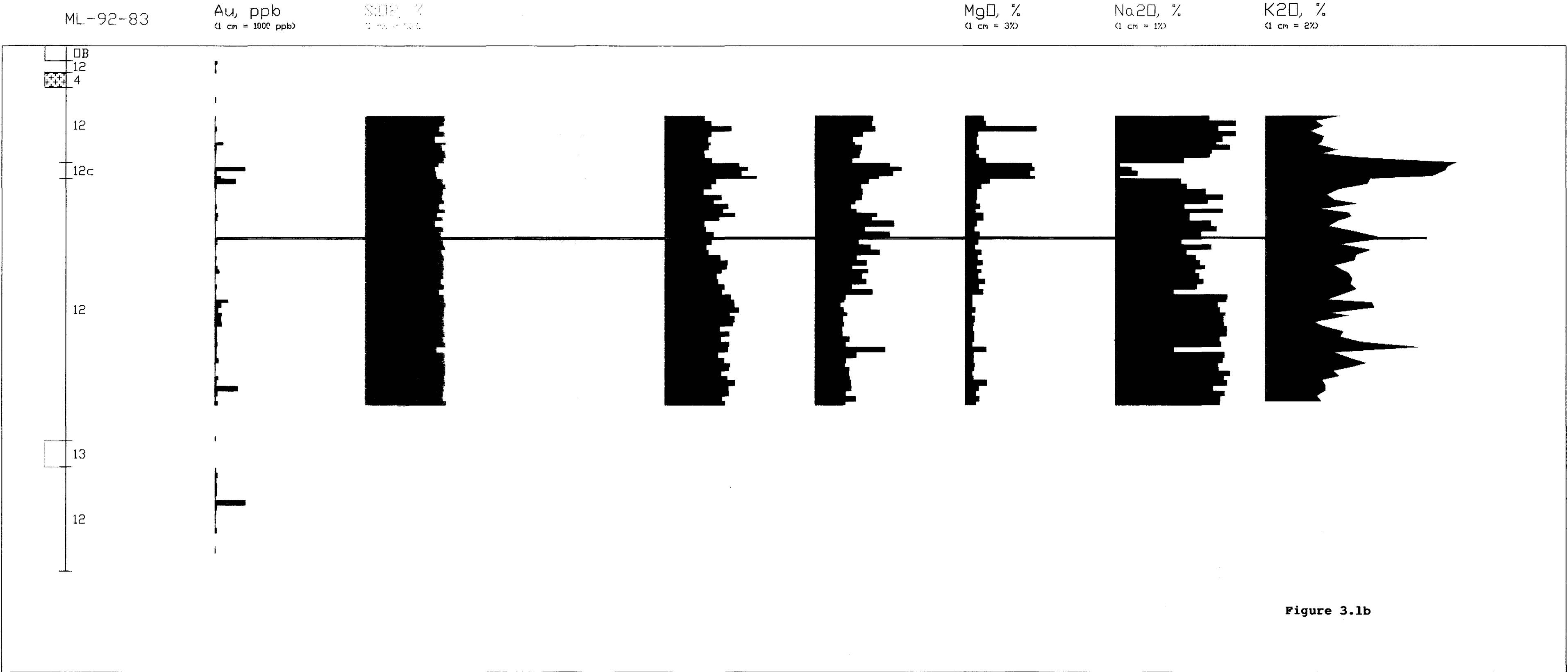


Figure 3.1b

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°/33°). Quartz veins trend 100°/75° and 068°/76°. The shears trend 260°/85° (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

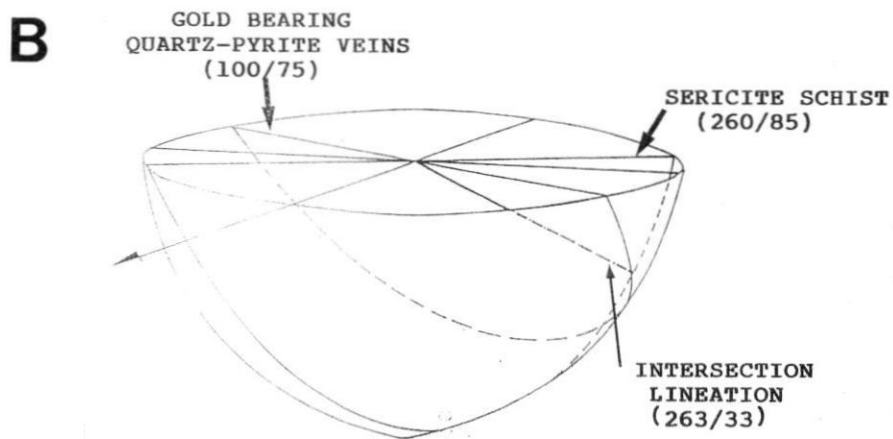
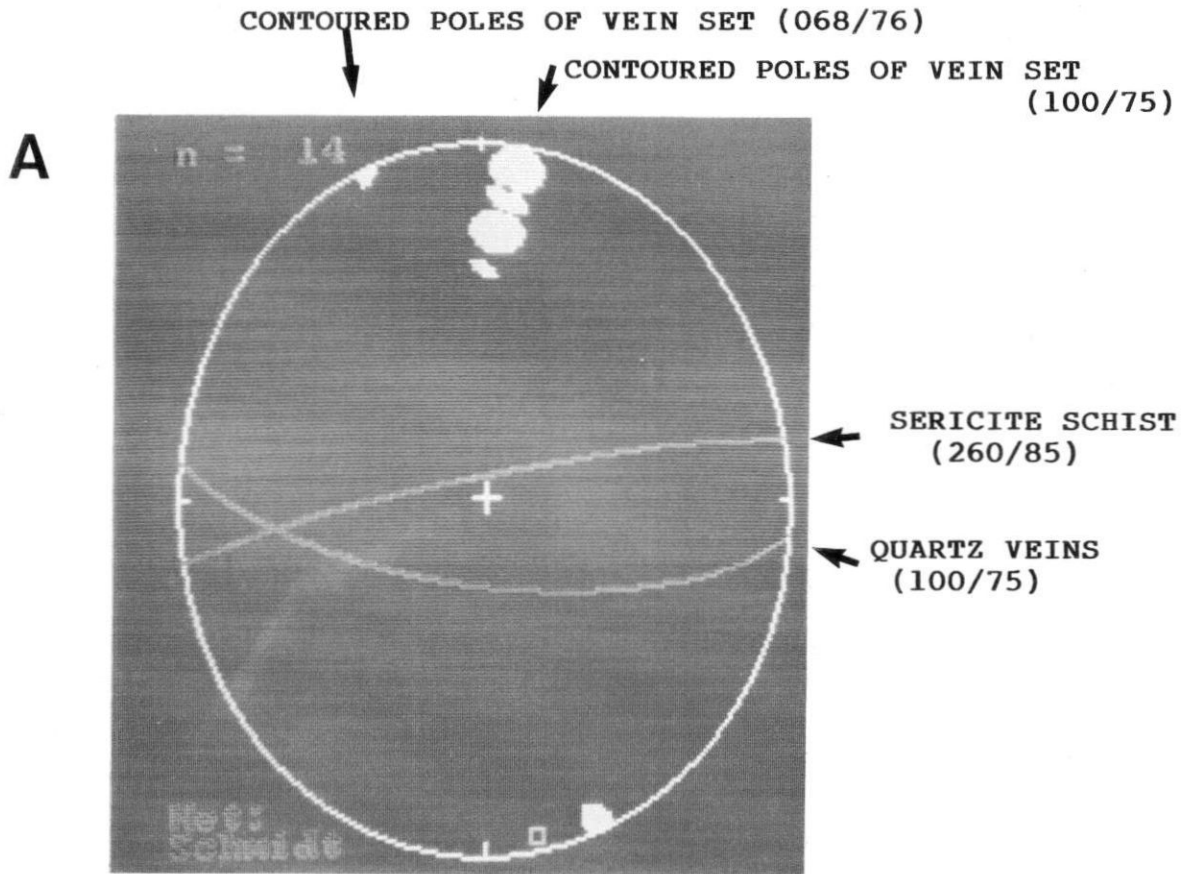


Figure 3.1d: Structural Summary - Shonia #1 Area

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.

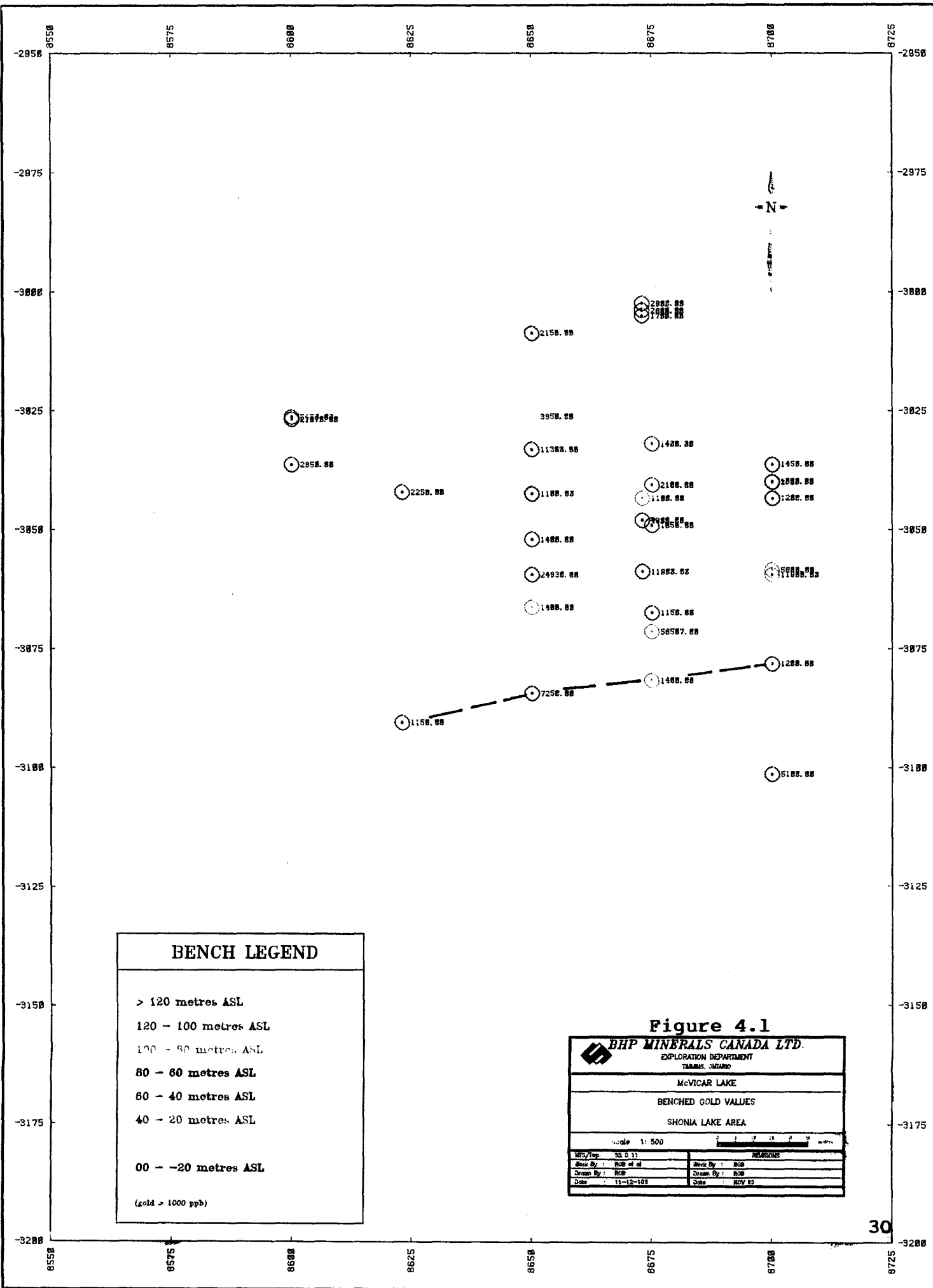
Previously, geological mapping defined a 200 metre quartz vein halo surrounding the Shonia #1 occurrence. Diamond drilling has subsequently defined a smaller high grade quartz vein envelope within this halo. The absence of high grade gold veins on strike to the west of section 86+25E may not be related 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, vugy 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.



BENCH LEGEND

- > 120 metres ASL
- 120 - 100 metres ASL
- 100 - 80 metres ASL
- 80 - 60 metres ASL
- 60 - 40 metres ASL
- 40 - 20 metres ASL
- 00 - -20 metres ASL

(gold - 1000 ppb)

Figure 4.1

BHP MINERALS CANADA LTD. EXPLORATION DEPARTMENT THUNDER BAY, ONTARIO	
McVICAR LAKE	
BENCHED GOLD VALUES	
SHONIA LAKE AREA	
Scale 1: 500	
MSJ/Imp. 52.0 31 Drawn By: RCB et al Date: 11-12-103	REVISIONS Drawn By: RCB Date: NOV 87

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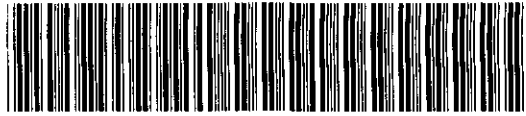
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52011SW0006 OM92-008 MCVICAR LAKE

APPENDIX I

DIAMOND DRILL LOGS (ML-92-64...ML-92-78)

HOLE NO. ML-92-64

PROJECT: 1446

PAGE NO: 1 OF 8

CASING COLLAR ELEV.: 117M

GROUND ELEV.: 117M

DATE STARTED: FEB 5, 1992

REF. TO CLAIM CORNER: PA1180579

COORDINATES: 30+905 N 87+00 E

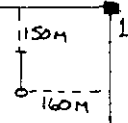
DATE FINISHED: FEB 9, 1992

SCALE: 1" = 10'

INCLINATION: -52 BEARING: 000°

TOTAL DEPTH: 439' (133.8M)

LOGGED BY: R.G. BONNER



SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS: TARGET IS DIP EXTENSION OF SHONIA #1 VEIN. VEIN SYSTEM INTERSECTED FROM 254' TO 297'. DOWN DIP IS SULPHIDE POOR	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SERICITE	APPLE GREEN MICA												
0														
10						0.0' - 35.0' OVERBURDEN CASING REMAINS SAND AND MUD ONLY								
20														
30														
35.0'														
35.5'						35.0' - 44.5' SERICITE ALTERED SCHIST		1	39	100	808CM	3.0'	59801	
38.5'						BUFF YELLOW, APHANITIC, MASSIVE TO WELL FOLIATED, SERICITE (70% MODAL), QTZ (20%), CHLORITE, SULPHIDE		1				3.0'	59802	
41.5'						MINOR APPLE GREEN MICA LOCATED WITH INTENSELY				100		3.0'	59803	
44.5'						SHEARED ZONES, FEW QTZ-PY VEINS TO 2 CM THICK		0.5				3.0'	59804	
42.5'						MINOR QTZ-CARB-PY, CARBONATE, CHLORITE FRACTURE			49			1.5'	59806	
49.0'						FILLINGS AND COATINGS, FINE IDIOMORPHIC PYRITE						3.0'	59807	
52.0'						UP TO 1% DISSEMINATED, PYRITE UP TO 2MM -		0.1		100				
50						UP TO 50MM IN VEINS, VEIN ARE BOTH PARALLEL AND CROSS CUTTING FOLIATION, RARE CHALCOPHYRITE			59					

QTZ-PY VEIN
S₁ AT 40° TO CA
QTZ-PY VEINLET
GRADATIONAL
INTENSE SHEAR SHARP

HOLE NO. ML-92-64

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			FRACTURING	MINERAL	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 MICA												
60							SHARP								
							INTRUSIVE Xenolith		0.1	65	100				
70							SHARP		0.1	79	100				
80									0.1	89	100				
90							SHEARED mafic dyke cut at 10° TO CA		0.1	99	100				
100									0.1	109	100				
110									0.1	119	100				

DESCRIPTIVE GEOLOGY

44.5' - 49.0' PORPHYRITIC BASALT

DARK GREEN, MASSIVE TO WELL FOLIATED, APHANITIC WITH UP TO 7% WHITE PHENOCRYSTS (?), PHENO'S 2-3 MM, ELONGATE TO SUB IDIOMORPHIC, WITH CHLORITIC SHEARS, DOLOMITE REPLACEMENT (?)

PATCHY MAGNETITE, TRACE DISSEMINATED SULPHIDE SHEARED LOWER CONTACT WITH APPLE GREEN MICA, SERICITE, QTZ UBIN 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

62.8' - 74.8' SHEARED GABBRO

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

HOLE NO. ML-92-64

PROJECT: 1446

PAGE NO: 3 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			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					QTZ										
							74.8' - 247.5' LATE INTRUSIVE (TONALITE) CONT...		0.5		100	B08GM	121		
						QTZ VEIN							122.8	1.8'	59808
													133.4	2.6'	59809
										129			126.3		
130									0.5		100				
						PY-QTZ VEIN							135.7		
													133.5	1.8'	59810
140						PY-QTZ VEIN				139			140.4		
									0.5		100		143.4	3.0'	59811
150															
						QTZ-PY VEIN			0.5		100		153.7		
													153.7	4.0'	59812
160										159			153.7		
						Pyritic Fractures			0.5		100				
						Chloritic fracture with coarse pyrite intersecting at 30° to CA									
						Py-Limonite Fractures							171.5		
170						QTZ-PY VEIN COARSE PYRITE			0.5		100			4.8'	59813
						QTZ VEIN 064/66 CORE TECH TEST - TRUE DIP = 47°							176.3		
										179					

HOLE NO. ML-92-64

PROJECT: 1446

PAGE NO: 4 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: -50° BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: R. G. BANNER

SECTION	ALTERATION			FRACTURING OR MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
180						QTZ VEIN								
						74.8' - 247.5' LATE INTRUSIVE (TONALITE)								
						CONT...		0.1		100				
190						QTZ VEINLET								
						QTZ VEIN 071/89			187					
						PATCHY SILICIFICATION		0.1		100				
200						QTZ VEINS - CHLORITIC BETWEEN VEINS			199					
								0.1		100				
210									209					
								0.1		100				
220						QTZ			219					
								0.1		90?				
230						RUBBLE (SEAM)			229					
								0.1		80				
									239					
												236.5'		
												239.0'	2.5'	59814

HOLE NO. ML-92-64

PROJECT: 1446

PAGE NO: 5 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		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT	ESTI-MATED
	SERICITE	APPLE GREEN MICA												
240						74.8' - 247.5' LATE INTRUSIVE (TONALITE)								
						CONT...		0.5		100		240.8	1.8	59815
						MASSIVE PYRITE BLENDS TO 3-5 CM WITH QZ VEINLETS						244.5	3.3'	59816
						SHARP			249			247.5	3.0'	59817
250						INTENSELY SHEARED GABBRO						251.0	3.5'	59818
						SHARP		0.1		100		259.0	3.0'	59819
						GREEN, FINE GRAINED, WELL FOLIATED, SECTIONS ARE INTENSELY SHEARED WITH WEAK TO MODERATE						257.5	3.5'	59820
						APPLE GREEN MICA, TRACE PYRITE, PROBABLY A XENOLITH			259			261.6	4.1'	59821
260						254.5' - 297.0' QUARTZ VEINED TONALITE		0.1		100		265.5	3.9'	59822
						AS IN 74.8-247.5 WITH CONSIDERABLY QUARTZ AS VEINS (STOCKWORK), QZ HAS TRACE SULPHIDE,						269.0	3.5'	59823
270						TONALITE IS SHEARED AND FRACTURED (WEAK) CHLORITIC FRACTURES WITH PYRITE, INTENSELY						273.2	4.2'	59824
						SHEARED PORTIONS MAY BE GABBRO XENOLITHS, WEAK AGM DEVELOPMENT IN SHEARED PORTIONS		0.1		100		277.0	3.8'	59825
						TONALITE IS SERICITIC			279			282.0	5.0'	59826
280						INTENSELY SHEARED GABBRO (?) S ₁ AT 10° TO CA		0.1		100		284.5	2.5'	59827
						BROKEN								
290						297.0' - 300.1' QUARTZ VEIN-FAULT GOUGE								
						VERY SHEARED MAFIC (?) XENOLITHS SWIMMING IN BULL QUARTZ, MAFIC IS SERICITE-CHLORITE		0.1		90?		297		
						MIXTURE, TRACE PYRITE							3.1'	59828
						OBSCURE - RUBBLE								

HOLE NO. ML-92-64

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 7, 1992

SCALE: 1"=10'

INCLINATION: -52°

BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: RG BONNER

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SERICITE	APPLE GREEN MICA	FRACTURING	MINERAL VENE									
300					BROKEN CORE S ₁ AT 20° TO CA SHARP								
310						<u>300.1' - 317.5' SHEARED MAFIC ROCK (GABBRO?)</u> DARK GREEN, APHANITIC, SHEARED, FOLIATION AT LOW ANGLE TO CA, CHLORITIC, WITH 20% WHITE ELONGATE PHENO'S → PLAGIOCLASE? QUARTZ VEINING WITH SERICITE RIBBONS, MINOR APPLE GREEN MICA, TRACE PYRITE	-	309	100		309		
						0.1		100			313.5'	4.5'	59829
320					<u>317.5' - 359.3' LATE INTRUSIVE (TONALITE)</u> AS IN 74.8-247.5		319				317.5'	3.0'	59830
						0.1		100					
330							329						
						0.1		100					
340					DIP TEST 44° TRUE		339						
						0.1		100					
350							349						
						0.1		100					
							359						

HOLE NO. ML-92-65

PROJECT: 1446

PAGE NO: 1 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 122 M

DATE STARTED: FEB 10, 1992

REF. TO CLAIM CORNER: PA1180578

COORDINATES:

31+00 S N:

89+00 E

DATE FINISHED: FEB 12, 1992

SCALE: 1"=10'

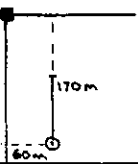
INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 439' (133.8m)

LOGGED BY: C J W

4



SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS: TARGET IS STRONG E-W VLF ANOMALY WITH COINCIDENT WEAK IP. RESPONSE, APPEARS TO BE SPLAY OFF MEVICAR ALTERED ZONE.	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	CARBONATE														
0															
10							0.0'-15.0' OVERBURDEN CASING REMAINS					BW			
20							15.0'-96.8' GABBRO MEDIUM TO DARK GREEN, MEDIUM GRAINED, MASSIVE TO VERY WEAKLY FOLIATED @40-80° TCA. MINOR FRACTURE RELATED CARBONATE ALTERATION. VERY MINOR PATCHY DISS. MAGNETITE. NO SULPHIDES NOTED.			19	80	BBW			
30							5. @ 40° TCA			29	60				
40										39	100				
50										45	100				
										59					

HOLE NO. ML-92-65

PROJECT: 1446

PAGE NO: 2 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 122M

DATE STARTED: FEB 10, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+005 N

89+00 E

DATE FINISHED: FEB 12, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 439' (133.8m)

LOGGED BY: CJW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL	GEOLOGY									
60					DESCRIPTIVE GEOLOGY								
60-70					15.0'-96.8' GABBRO CONT...			5	100	300cm			
70-80								5	100				
80-90								79	100				
90-100					96.8'-99.3' LATE INTRUSIVE (TONALITE) MEDIUM GREY WHITE, MASSIVE, FINE GRAINED, 80-85% QUARTZ-FELDSPAR, <5% SERICITE-CHLORITE. MINOR FRACTURE CONTROLLED CARBONATE ALTERATION. SHARP UPPER AND LOWER CONTACTS @ 65° TCA. No SULPHIDES NOTED.			8	100				
100-110					99.3'-104.1' GABBRO AS IN 15.0'-96.8'			99	100				
110-117					104.1'-106.0' LATE INTRUSIVE (TONALITE) AS IN 96.8'-99.3', SHARPE UPPER/LOWER CNTS. @ 45° TCA 106.0'-138.8' GABBRO AS IN 15.0'-96.8'			109	100				
117-119								117	100				

SHARP CNTS @ 65° TCA

SHARP CNTS @ 45° TCA

HOLE NO. ML-92-65

PROJECT: 1446

PAGE NO: 3 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 122M

DATE STARTED: FEB 10, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S N 89+00 E.

DATE FINISHED: FEB 12, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 435'

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
	EPIDOTE	CARBONATE	FRACTURING	MINERAL										
120				QTZ		106.0' - 138.8' GABBRO CONT...				100	80mm			
130						138.8' - 140.8' LATE INTRUSIVE (TONALITE) AS IN 96.8' - 99.3' . UPPER/LOWER CNTS. @ 60-70° TCA.			129	100				
140					SHARP CNTS @ 60-70° TCA CORE TECH UPPER 090°/57° LOWER 085°/60°	140.8' - 168.0' GABBRO AS IN 15.0 - 96.8'			139	100				
150					DIP TEST 46° TRUE				149	100				
160						168.0' - 175.7' MAFIC DIKE DARK GREEN, FINE GRAINED WITH 20.5MM ANHEDRAL EPIDOTIZED FELDSPAR PHENOS (<5% OF ROCK). NUMEROUS MM-SCALE RANDOM FRACTURE CONTROLLED EPIDOTE VNLTs, AND MASSIVE PATCHES. UNIT IS MASSIVE WITH RAGGED IRREGULAR CONTACTS. NO SULPHIDES OR MAGNETITE NOTED			159	100				
170					IRREGULAR CNT				169	100				
					IRREGULAR CNT	175.7' - 232.5' GABBRO AS IN 15.0' - 96.8'			179	100				

HOLE NO. ML-92-65

PROJECT: 1446

PAGE NO: 4 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 122M

DATE STARTED: FEB 10, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+005 N. 89+00 E.

DATE FINISHED: FEB 12, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: CJW

SECTION	ALTERATION			COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED	
	CARBONATE	FRACTURING	MINERAL GEOLOGY										
180				<p>175.7' - 232.5' GABBRO</p> <p>CONT...</p>									
190													
200													
210													
220													
230													
				<p>232.5' - 240.5' SHEARED GABBRO</p> <p>DARK GREEN, MEDIUM TO FINE GRAINED, WEAKLY SHEARED @ 40° TCA. MODERATE PERVASIVE AND VNLS OF CARBONATE ALTERATION</p> <p>PATCHY SILICIFICATION THROUGHOUT. MINOR COARSE FRACTURE CONTROLLED. AND MINOR DISS. PYRITE. MODERATELY CHLORITIC THROUGHOUT.</p>									
				GRADATIONAL CNT									
										3.0'	59831		
										2.5'	59832		
										2.5'	59833		

HOLE NO. ML-92-65

PROJECT: 1446

PAGE NO: 5 OF 8

CASING COLLAR ELEV.: 31400

GROUND ELEV.: 122 M

DATE STARTED: FEB 10, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31400 N 59100 E

DATE FINISHED: FEB 12, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: CJW

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY/HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	SERICITE	CARBONATE												
240						GRADATIONAL CNT						240.5	4.5'	59832
								0.5 TO 1		100	100%	245.0	4.5'	59834
									249			249.0	4.0'	59835
250						GRADATIONAL CNT		0.5				252.5	3.5'	59836
										100		255.5	3.0'	59837
									259			259.0	3.5'	59838
260												263.0	4.0'	59839
						SHARP CNT @ 60° TCA				100		266.0	3.0'	59840
								0.1				269.0	3.0'	59841
270									269			272.5	3.5'	59842
										100		275.5	3.0'	59843
						GRADATIONAL CNT								
280									279					
										100				
290									289					
										100				
									299					

DESCRIPTIVE GEOLOGY

240.5'-252.5' LATE INTRUSIVE (TONALITE)
 MEDIUM GREEN- GREY, FINE GRAINED, MASSIVE TO WEAKLY FOLIATED @ 55° TCA. MODERATE PERVASIVE AND UNITS OF CARBONATE ALTERATION. MINOR TO 1% FINE DISSEMINATED PYRITE. WEAKLY CHLORITIC THROUGHOUT.

252.5'-266.0' ALTERED LATE INTRUSIVE (TONALITE)
 LIGHT OLIVE GREEN, FINE TO MEDIUM GRAINED, MASSIVE, WEAKLY TO MODERATELY FRACTURED WITH CARBONATE AND CHLORITE INFILLING. MINOR DISS. AND FRACTURE CONTROLLED MAUVE CLAY-LIKE MINERAL. UNITS LIGHT COLOURATION APPEARS TO BE DUE TO DISS. SERICITE ALTERATION. NO SULPHIDES NOTED.

266.0'-275.5' SHEARED GABBRO
 DARK GREEN, MEDIUM TO FINE GRAINED, WEAKLY SHEARED @ 50° TCA. WEAKLY TO MODERATELY PERVASIVE AND UNITS OF CARBONATE ALTERATION. VERY WEAK DISS. HEMATITE ALTERATION THROUGHOUT ALONG WITH MODERATE CHLORITE ALTERATION TRACE DISS. PYRITE NOTED ALONG CHLORITIC SHEAR PLANE

275.5'-315.7' GABBRO
 AS IN 15.0'-96.8' WITH MINOR CARBONATE BRECCIATION FROM 307.0'-309.0'

DIP TEST 46° TRUE

HOLE NO. ML-92-65

PROJECT: 1446

PAGE NO: 6 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 122M

DATE STARTED: FEB 10, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 N. 89+00 E.

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: CJW

SECTION	ALTERATION			COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL									
300				275.5'-325.7' GABBRO CONT..		0.1	309	100	BDBGM			
310						-		100				
320						-	319	100				
330				325.7'-335.6' BRECCIATED SHEARED GABBRO MEDIUM TO DARK GREEN, FINE GRAINED, WEAKLY TO MODERATELY SHEARED @ 50° TCA. BRECCIATION IS MODERATELY TO WELL DEVELOPED WITH ROUNDED AND ROTATED FRAGMENTS SUPPORTED BY A WEAKLY TO WELL DEVELOPED CARBONATE MATRIX. UNIT IS CHLORITIC THROUGHOUT WITH OCCASIONAL QUARTZ VEINS. TRACE TO MINOR DISSEMINATED PYRITE WAS NOTED. A NARROW DIKE OF TONALITE OCCURS FROM 334.0' - 335.3'		0.5	319	100		325.7	3.3'	59844
						0.5		100		332.5	3.5'	59845
340				335.6'-365.5' GABBRO AS IN 15.0' - 96.8'		-	339	100		335.6	3.1'	59846
350						-	349	100				
						-		100				
						-	359					

HOLE NO. ML-92-65

PROJECT: 1446

PAGE NO: 7 OF 8

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 10, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S N 89+00 E

DATE FINISHED: FEB 12, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 439'

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.	ESTIMATED
	CARBONATE	FRACTURING	MINERAL										
360					335.6' - 365.5' GABBRO		-		100	800mm	345.5		
					CONT...								
370					365.5' - 368.2' BRECCIATED SHEARED GABBRO		1	369			368.2	2.7'	59847
					AS IN 325.7' - 335.6' WITH UPTO 1% DISS. PYRITE								
					368.2' - 409.0 GABBRO				100				
					AS IN 15.0 - 96.8'								
380								375					
									100				
390								385					
									100				
400								395					
									100				
410					409.0' - 417.8' SHEARED BRECCIATED GABBRO			409			404.0		
					AS IN 325.7' - 335.6' BUT LESS WELL DEVELOPED						412.0	3.0'	59848
					BRECCIATION. TRACE TO MINOR PYRITE AND PYRRHOTITE		0.1		100		415.0	3.0'	59849
					417.8' - 439.0' GABBRO						417.8	2.8'	59850
					AS IN 15.0' - 96.8'			419					

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 X 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				COMMENTS:	AVE CORE RECY/HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT	ESTIMATED
	CARBONATE	FRACTURING	MINERAL	GEOLOGY									
0					DESCRIPTIVE GEOLOGY								
					0.0' - 10.0' OVERBURDEN CASING REMAINS					80			
10					10.0' - 48.0' TONALITE					80	12.0'		
				PY-QTZ STRINGER AT 60° TO CA PY STRINGER AT 60° TO CA K-SPAR MAGNETITE RICH ZONE	LIGHT YELLOW TO PINKISH, FINE GRAINED, QUARTE (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			15.0'	3.0'	598.51	
20						0.1		100					
30				MAFIC DYKE		0.1	29						
40					48.0' - 52.0' FELSIC DYKE OR SHEAR ZONE								
					LIGHT YELLOW, FINE GRAINED, QUARTE (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	39						
50				MAFIC DYKE		0.1		100					
				SHARP CNT AT 30° TO CA			49				48.0		
				MICRO FAULT SHARP CNT AT 20° TO CA							52.0	4.0'	598.52
				PY ON FRACTURES		0.1		100					
				SHARP CONTACT AT 40° TO CA	52.0' - 118.7' TONALITE								
				MAFIC DYKE	AS IN 10.0 - 48.0, MAFIC DYKES ARE APHANITIC, DARK GREEN, CHLORITIC, WITH WEAK CARBONATE, NO SULPHIDE		59						

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: P.G. BONNIER

SECTION	ALTERATION			GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL										
60					FINE CHL-PY FRACTURES		0.1		100				
70							0.1		100				
80							0.1		100				
90							0.1		100				
100							0.1		100				
110					CHL-CARB SHEAR 40° TO CA		0.1		100				
					SHARP		0.1		100				
							0.1		100				

52.0' - 118.7 TONALITE
CONT ...

INCREASING
CHLORITIC
FRACTURE
NETWORK
↓

118.7' - 124.4' SHEARED GABBRO
DARK GREEN, FINE GRAINED, CHLORITE, VERY FINE
CLMM WHITISH PHENO'S REACT TO HCL, SHEARING
INTENSITY INCREASES THROUGH INTERVAL TO BRECCIA
SHARP UPPER, GRADATIONAL LOWER CONTACT, FINE
QTR VEINS OFFSET BY CHLORITIC FRACT., NO SULPHIDE

HOLE NO. ML-92-66

PROJECT: 1446

PAGE NO: 4 OF 6

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

DATE STARTED: FEB 13, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00S N 286+50 E.

DATE FINISHED: FEB 15, 1992

SCALE: 1"=10'

INCLINATION: -47° BEARING: 000°

TOTAL DEPTH: 339'

LOGGED BY: R.G. BANNER

SECTION	ALTERATION			FRACTURING	MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	CARBONATE	CHLORITE												
180							167.6' - 251.0' TONALITE								
						CHL FRACTURE 300/85 - SUP LINEA. 300/50	AS IN 10-48, PATCHY SILICIFICATION WITH FINE QTZ-PYRITE VEINS, FEW OBSERVATIONS OF VERY FINE SILICA VEINLETS CUTTING CHLORITIC FRACTURES, DISSEMINATED AND FRACTURE PYRITE ACCOMPANYING SILICIFICATION		0.5		100	183.0	3.0'	59856	
						QTZ-PY VEIN 006/46				189		189.0	3.0'	59857	
190						CHLORITIC			0.5		100	193.5	4.5'	59858	
						PY FRAC.				199		197.0	3.5'	59859	
200						K-SPAR 10%			0.1		100	200.6	3.6'	59860	
										209		204.0	3.4'	59861	
210									0.1		100				
										219					
220									0.5		100				
						CARB FRACTURE 130/75 - ORIENT GROWTH 205/75 (UNEATION)				229		225.5	3.0'	59862	
230						QTZ-PY VEIN 240/22 - TRUE THICKNESS 10 CM						230.1	1.6'	59863	
						QTZ VEIN 145/52			0.5		100	231.3	1.2'	59864	
										239		235.3	4.0'	59865	
												239.0	3.7'	59866	
													4.1'	59867	

HOLE NO. ML-92-66

PROJECT: 1446

PAGE NO: 5 OF 6

CASING COLLAR ELEV.: 117M

GROUND ELEV.: 117M

DATE STARTED: FEB 13, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00S N. LB6+50 E.

DATE FINISHED: FEB 15, 1992

SCALE: 1" = 10'

INCLINATION: -47° BEARING: 000°

TOTAL DEPTH: 339'

LOGGED BY: R.G. BONNER

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
	SILICIFICATION	CARBONATE												
240						QTZ-PY VEIN								
						167.6' - 251.0' TONALITE								
						CONT...		0.1		100				
250						SHARP			249					
						251.0' - 266.1' MAFIC DYKE								
						DARK GREEN, APHANTIC CONTACTS - FINE GRAINED		0.1		100				
						OVERALL, CHLORITIC, <1mm - 5% PLAG PHENO'S →								
260						CARB REPLACED, MASSIVE, MODERATE CARB FROM			259					
						CONTACTS IN, FEW QTZ-CARB VEINLETS, MINOR		0.5		100				
						EPIDOTE WITH VEINLETS, TRACE SULPHIDE						266.1		
270						SHARP			269			270.0	3.9'	59868
						266.1' - 339.0' TONALITE								
						AS IN 10-48,		0.5		100		275		
280						QTZ VEIN			279			279	4.0'	59869
						QTZ VEIN		0.1		100				
290						PY STRINGERS			289			289		
												291	2.0'	59870
								0.1		100				
									299					

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: PA1180579

COORDINATES: 3160 S N 87400 E

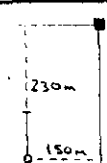
DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 369' (112.5 m)

LOGGED BY: CSW



SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	CHLORITE	SERICITE	CARBONATE												
0							0.0' - 10.0' OVERBURDEN CASING REMAINS					BW			
10							10.0' - 35.5' TONALITE 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). UNJT. TEND TO BE MODERATELY WELL FRACTURED TO WEAKLY FOLIATED. OCCASSIONAL QUARTZ VNLTs PRESENT (<1cm), GENERAL BARREN OF SULPHIDES BUT WITH PATCHY FELDSPAR GRAINS. TRACE TO NIL DISSEMINATED PYRITE THROUGHOUT		0.1	19	100	508cm			
20															
30															
40							35.5' - 37.0' MAFIC DIKE MEDIUM-DARK GREEN, FINEGRAINED TO PORPHYRITIC (VERY SHARP CONTACTS WITH POSSIBLE CHILLED MARGINS) LIGHT GREEN LAYERS ASSOC. WITH FELDSPAR-QUARTZ VNLTs. TRENDING TO S ₁ (40° TCA) NO CARBONATE OR SULPHIDES NOTED. UPTO 1% FELDSPAR PHENOF.		0.1	24	100				
50							37.0' - 43.5' TONALITE AS IN 10.0' - 35.5'								
							43.5' - 48.5' MAFIC DIKE AS IN 35.5' - 37.0'		0.1	39	100				
									0.1	49					
									0.1	59					

0.0' D. 0.0' B. 0.0'

25

SHARP LAYS. @ 35° TCA

SHARP LAYS @ 35° TCA

S₁ @ 40° TCA

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122 m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+60.5 N: 87+00 E.

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 369'

LOGGED BY: CFW

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	CHLORITE	SERICITE	CARBONATE												
60																
70							<p>48.5'-158.5' TONALITE</p> <p>AS IN 10.0'-35.5' BUT TENDS TO BE MORE SERICITIC AND MINOR PYRITE SECTIONS</p> <p>S. @ 30° TGA</p>		0.1	69	100	3006W	69.0'			
80									0.5 TO 2	79	100		72.0'	3.0'	59872	
90									0.1	89	100		75.0'	3.0'	59873	
100							MASSIVE		0.1	99	100		78.0'	3.0'	59874	
110							MASSIVE		0.1 TO 1	109	100		84.0'	3.0'	59875	
							MASSIVE		0.1	119	100		89.0'	3.0'	59876	
							MASSIVE		0.1		100		92.0'	3.0'	59876	
									0.1 TO 1		100		101.0'	4.0'	59877	
									0.1		100		105.0'			

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31605 N. 87+00 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												
120					QTZ	MASSIVE	48.5' - 158.5' TONALITE CONT...		0.1	129	100	800W			
130					Si @ 35° TGA				0.5	139	100		132.0'	3.0'	59878
140									0.1	149	100		135.0'	4.0'	59879
150							158.5' - 172.0' MAFIC DIKE AS IN 35.5' - 37.0' BUT WITH 1% +3mm SUBHEDRAL WHITE FELDSPAR PHENOS. VERY SHARP, CHILLED CONTACTS		0.1	159	100				
160					QTZ VN CORETECH @ 056/47° CORETECH @ 155' 47° TELUS SHARP CNT @ 10° TGA CORETECH CNT @ 178/82°				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'		-		100				
					SHARP CNT CORETECH @ 145/90°		177.0' - 185.5 TONALITE AS IN 10.0' - 35.5'		0.1				179.0'		

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31465 N 8700 E

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 369'

LOGGED BY: CJW

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												
180							177.0'-185.5' TONALITE		0.1		100	8064W	182.0'	3.0'	59880
							CONT...								
190							185.5' - 188.0' MAFIC DIKE			189					
							AS IN 35.5' - 37.0' BUT LIGHT GREY GREEN IN COLOUR WITH WEAK TO MODERATE SILICIFICATION.								
200							188.0' - 250.4' TONALITE			199					
							AS IN 10.0' - 35.5'								
							MASSIVE				100				
210										209					
											100				
220										219					
									0.1		100				
230										229					
							MASSIVE		0.1		100				
										239					

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+60.5 N 87+00 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												
240							188.0'-250.4' TONALITE CONT...		0.1		100				
250						SHARP CNTS @ 45° TCA	250.4' - 254.0' MAFIC DIKE AS IN 185.5' - 188.0'		0.1	249					
260							254.0' - 369.0' TONALITE AS IN 10.0' - 35.5' BUT WITH K-SPAR ALT. FROM 333.0' - 335.5'		0.1		100				
270									0.1	259					
280									0.1		100				
290									0.1	269					
									0.1		100				
									0.5		100				
										299					
							CORE TECH @ 47° TRUE						296.0		
													299.0	3.0'	59881

HOLE NO.: ML-92-67

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 3160 S N 87+00 E 122m

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 PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	K-SPAR	CHLORITE	SERICITE	CARBONATE												
300																
								254.0' - 369.0' TONALITE					300.0'	301.0'	2.0'	59882
								CONT...		0.1	309	100				
310										0.1	319	100				
320										0.1	329	100				
330								MASSIVE		0.1 0.5	329	100		331.0		
340										0.1	339	100		334.0	3.0'	59883
350										0.1	349	100				
										-	359	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: 31+60 S X 87+00 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												
360							DESCRIPTIVE GEOLOGY <u>254.0'-369.0' TONALITE</u> MASSIVE CONT... END OF HOLE 369'		1	369	100	0.08m			

HOLE NO. 112-92-40

PROJECT: 1446

PAGE NO: 3 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 27+00 S N. 88+00 E.

DATE FINISHED: FEB 20, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 364'

LOGGED BY: CSW

SECTION	ALTERATION				FRACTURING	MINERAL QTZ	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SILICIFIED	CHLORITE	SERICITE	CARBONATE												
120																
							79.0' - 149.0' SILICIFIED-SERICITIC BASALT ? CONT...						500m	122.5'	3.5'	59894
														126.0'	3.5'	59895
130														129.0'	3.0'	59896
														132.5'	3.5'	59897
														136.0'	3.5'	59898
														139.0'	3.0'	59899
140														142.5'	3.5'	59900
														146.0'	3.5'	59901
150							149.0' - 212.3 TONALITE ? LIGHT YELLOW-GREEN, MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 65° TO A. MODERATELY TO INTENSELY SILICIFIED AND MODERATE SERICITIZED THROUGHOUT. APPEARS VERY SIMILAR TO ABOVE UNIT EXCEPT CAN RECOGNIZE INDIVIDUAL QUARTZ GRAINS. TRACE TO 2% DISS. PYRITE.							149.0'	3.0'	59902
														152.5'	3.5'	59903
														156.0'	3.5'	59904
														159.0'	3.0'	59905
160														162.5'	3.5'	59906
170																

CORETECH TEST
@ 145'
48° TRUE
BRECCIATED
GRABATIONAL
CMT.

CORETECH
SI @ 310° / 53°

HOLE NO. ML-92-60

PROJECT: 1446

PAGE NO: 4 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 18, 1952

REF. TO CLAIM CORNER:

COORDINATES: 27+00 S - 88+00 E.

DATE FINISHED: FEB 20, 1952

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 564'

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												
180							149.0' - 212.3 TONALITE? CONT...		0.1	189	100	88mm	192.0		
190									0.5	199	100		195.0	3.0'	59907
200									0.1	209	100				
210							212.3' - 240.0 GABBRO? DARK TO MEDIUM GREEN, FINE TO MEDIUM GRAINED, WEALLY FRACTURED AND FOLIATED @ 60° TO A. VERY MINOR UNORIENTATED QUARTZ-FELDSPAR VNLTs. TRACE DISSEMINATED PYRITE.		0.5 1.0	219	100		215.0	4.0'	59908
220									0.5	229	100		222.0	4.0'	59909
230										239	100				

HOLE NO. ML-92-00

PROJECT: 1446

PAGE NO: 5 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 27+00 S \pm 88+00 E.

DATE FINISHED: FEB 20, 1992

SCALE: 1/2"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 564'

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
	SERICITE	CARBONATE	FRACTURING	MINERAL										
240					240.0 - 264.0 GABBRO? LIGHT BUFF BROWN, FINE GRAINED, VERY SIMILAR IN APPEARANCE TO TONALITE UNIT FROM 149.0' - 212.3'. TRACE PYRITE. 264.0' - 513.0 GABBRO AS IN 212.3' - 240.0, FINE GRAINED, SI @ 65° TCA. MINOR CARBONATE FILLED RANDOM FRACTURES.									
250								0.1 0.5	249	100	800cm	252.0		
										100		255.0	26'	59510
260				X					259	100				
270				X X X		GRADATIONAL CNT			269	100				
280				X X X				0.1	279	100				
290				X X X					289	100				
				X X						100				
									299	100				
													295.0'	

CORE TECH @ 299' 47° TAKE

HOLE NO. ML-92-68

PROJECT: 1446

PAGE NO: 7 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 27+00 S N 88+00 E

DATE FINISHED: FEB 20, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 564'

LOGGED BY: CSW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SERICITE	CARBONATE	FRACTURING	MINERAL									
360				QTZ	DESCRIPTIVE GEOLOGY 264.0' - 513.0' GABBRO CONT...		0.1	100	B&S ↓				
370							0.5	100		363.0'			
380							0.1	100		372.0'	3.0'	59915	
390							-	100					
400							-	100					
410							-	100					
							-	100					
							-	100					
							-	100					
							-	100					

HOLE NO. ML-92-68

PROJECT: 1446

PAGE NO: 8 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 18, 1952

REF. TO CLAIM CORNER:

COORDINATES: 27+00 S N 88+00 E.

DATE FINISHED: FEB 20, 1952

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 564'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SILICIFIED	SERICITE	CARBONATE												
420							264.0' - 513.0' GABBRO CONT...		0.1		100	306.0'			
430									0.5		100		429.0'	3.5'	59916
									1.0		100		432.5'	3.5'	59917
440													435.5'	3.0'	59918
									0.1		100		439.0'		
450													449.0'		
									0.1		100		459.0'		
460									1		100		469.0'		
													479.0'		
470									0.1		100		478.5'		
												479.0'			

CORE TECH @ 47° TRUE

CORE TECH S1 @ 240/68

HOLE NO. ML-92-60

PROJECT: 1446

PAGE NO: 9 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 27+00 S N. 88+00 E.

DATE FINISHED: FEB 20, 1992

SCALE: 1"=10'

INCLINATION: -48°

BEARING: 180°

TOTAL DEPTH: 564'

LOGGED BY: CSW

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PYR SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED	
	SILICIFIED	SERICITE	CARBONATE													
480							264.0' - 513.0 GABBRO						482.5	40'	59919	
							CONT...		0.1		100					
490										489						
									0.1		100					
500										499						
									0.5		100		506.0			
510										509			509.0	3.0	59920	
													511.0	2.0	59921	
									0.5		100		513.0	2.0	59922	
									5.0		100		516.5	3.5	59923	
										519			519.0	2.5	59924	
520							513.0' - 530.7' GABBRO?									
							CONDATIONAL									
							LIGHT BUFF TAN AS IN 240.0' - 264.0'. WEAKLY FOLIATED @ 60° TCA. MODERATE CARBONATE VENTS AND PATCHES. TRACE TO 5% DISSEMINATED AND PATCHY PYRITE ASSOCIATE WITH CARBONATE FRACTURES.							522.5	3.5	59925
									1.0		100			526.0	3.5	59926
														529.0	3.0	59927
530							530.7' - 564.0' TONALITE			529						
							CONDATIONAL GNT									
							LIGHT BUFF BROWN AS IN 149.0' - 212.3' TO 553'. MODERATE FOLIATION @ 40°-50° TCA. FROM 553' - 564' MEDIUM WHITE GREEN, MEDIUM GRAINED, MASSIVE WITH PATCHY PYRITE UP TO 1%.									
									1.0		100					
										539						

LE NO: 92-

PROJECT: 1446

PAGE NO: 1 OF 3

CASING COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: FEB 20, 1992

REF. TO CLAIM CORNER: PA1179710

COORDINATES: 29+13 S X 94191 E.

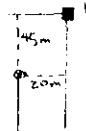
DATE FINISHED: FEB 21, 1992

SCALE: 1"=10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 129' (39.3m)

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
	CARBONATE	FRACTURING	MINERAL	QZ										
0						0-7.0' OVERBURDEN CASING REMOVED					BW			
10					DD ← BRECCIATED	7.0' - 69.0' MAFIC-INTERMEDIATE PILLOWED BASALT MEDIUM GREEN-GREY, VERY FINE GRAINED TO APHANTIC, MASSIVE. SEVERAL NOTABLE PILLOW SELVAGES WITH DARK INTERFLOW SEDIMENTS. MODERATE PERVASIVE AS WELL AS FRACTURE CONTROLLED CARBONATE ALTERATION. NUMEROUS BRECCIATED HORIZONS (UP TO 20cm WIDE) WITH <1cm (AVG) VERY ANGULAR FRAGMENTS SET IN A BLACK GRAPHITIC MATRIX		0.1	100					
20					DD — GRAPHITIC				19	100				
30									29	100				
40					DD — GRAPHITIC				39	100				
50					DD — GRAPHITIC				49	100				
					DD — GRAPHITIC				59	100				

HOLE NO. ML-92-69

PROJECT: 1446

PAGE NO: 2 OF 3

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 20, 1992

REF. TO CLAIM CORNER:

COORDINATES: 29+13 S * 94+91 E.

DATE FINISHED: FEB 21, 1992

SCALE: 1"=10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 129'

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
	CARBONATE	FRACTURING	MINERAL										
60					7.0' - 69.0' MAFIC-INTERMEDIATE PILLOWED BASALT CONT...		-		100				
70				Z	69.0' - 129.0' MUD AND SAND MUD, SILT, AND COARSE SAND RECOVERED. HOLE ABANDONED BECAUSE RODS UNABLE TO TURN.		-	69	0				
80				Z	69.0' - 109.0' OCCASIONAL PEBBLES 109.0' - 113.0' SILT 113.0' - 129.0' COARSE SAND		-	79	0				
90				Z			-	89	0				
100				Z			-	99	0				
110				Z			-	109	0				
				Z			-	119	0				

FELDSPAR
PERPH.
DICES

100%

HOLE NO. ML-92-10

PROJECT: 1446

PAGE NO: 2 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 21, 1992

REF. TO CLAIM CORNER:

COORDINATES: 28+91.5 N 24+99 E.

DATE FINISHED: FEB 22, 1992

SCALE: 1"=10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 581'

LOGGED BY: CSW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
		CARBONATE	FRACTURING	MINERAL									
60					25.0' - 221.4' BRECCIATED MAFIC-INTERMEDIATE PILLOWED BASALT CONT...		0.1 0.1%	69	100	808m			
70							0.1	70	100				
80					GRAPHITE		0.1	75	100		73.0		
90							0.1 5-4 %	85	100		82.5	3.5'	59931
100							0.5 %	89	100		86.0	3.5'	59932
110							0.5 %	95	100		89.0	3.0'	59933
							0.5 %	105	100		99.0		
							0.5 %	109	100		102.0	3.0'	59934

HOLE NO. MIL-92-10

PROJECT: 1446

PAGE NO: 4 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 21, 1992

REF. TO CLAIM CORNER:

COORDINATES: 28+915 N. 94+99 E.

DATE FINISHED: FEB 22, 1992

SCALE: 1"=10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 581'

LOGGED BY: CJW

SECTION	ALTERATION			GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL										
180					25.0'-221.4' BRECCIATED MAFIC-INTERMEDIATE FLOWED BASALT CONT...		0.1 P ₀	189	100	BD6cm			
190							-	100					
200					221.4'-236.0' MUDSTONE AND GREYWACKE (TURBIDITE) BLACK AND MEDIUM GREY, VERY FINE GRAINED GRAPHITIC MUDSTONE BEDS AND MEDIUM TO FINE GRAINED GREYWACKE BEDS GIVING AN UP-HOLE (NORTH) TOPS DIRECTION. INDIVIDUAL CYCLES VARY BETWEEN 2-20cm WIDE. BEDDING @ 55° TCA. MODERATE PERVASIVE CARBONATE ASSOCIATED WITH GREYWACKE. TRACE PYRITE WITHIN MUDSTONE.		-	100					
210							-	100					
220					SHARP CUT @ 70° TCA		-	100					
230					GRAPHITIC		0.1	229	100				
					SHARP CUT @ 60° TCA		0.1	100					
							-	239	100				
							-	239					
											239.0'		

HOLE NO. ML-92-70

PROJECT: 1946

PAGE NO: 5 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 21, 1992

REF. TO CLAIM CORNER:

COORDINATES: 28+91.5 N. 94+99 E.

DATE FINISHED: FEB 22, 1992

SCALE: 1"=10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 581'

LOGGED BY: CJW

SECTION	ALTERATION			COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL GEOLOGY									
240				236.0' - 260.0' BRECCIATED MAFIC CONT...		0.5 70 Po	100		242.5	3.5'	59937	
250						0.5 70 Po	100		246.0	3.5'	59938	
260				260.0' - 299.0' MUDSTONE AND GREYWACKE (TURBIDITE) AS IN 221.4' - 236.0' BUT WITH MUCH LESS MUDSTONE UNITS AND NO APPARENT GRAPHITE		0.5 70 Po	70		249.0	3.0'	59939	
270						0.1 Po	30		252.5	3.5'	59940	
280						0.5 70 Po	100					
290						0.5 70 Po	100					
						0.1 40 EPY						

BROKEN CNT

GRAPHITE

50 @ 265/72°

CORE TECH GRADATIONAL @ 46° TRUE CNT

HOLE NO. 92-

PROJECT: 1946

PAGE NO: 7 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 21, 1992

REF. TO CLAIM CORNER:

COORDINATES: 28+915 N. 94+99 E.

DATE FINISHED: FEB 22, 1992

SCALE: 1"=10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 581'

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
	CARBONATE														
360							<p>299.0' - 418.5' VOLCANOCLASTIC MUDSTONE</p> <p>CONT...</p>								
370							<p>CHERT FRAGMENTS</p>			369	100	5000m			
380									0.1 P ₆	379	100				
390										389	100				
400							<p>418.5' - 475.0' VARIOLITIC PILLOWED BASALT</p> <p>DARK GREEN, FINE GRAINED, MASSIVE, WEAK FRACTURE CONTROLLED CARBONATE ALTERATION. SEVERAL NOTABLE PILLOW SELVAGES WITH UP TO 2% DISS. PYRITE WITHW SELVAGE. NUMEROUS MEDIUM GREEN, (1cm) VARIOLITES WHICH GENERALLY OCCUR IN CLUSTES OVER 10-20 cm TRACE TO NIL PYRITE THROUGHOUT UNIT.</p>			399	100				
410										409	90				
							<p>BROKEN CNT</p>			419					

HOLE NO. ML-92-10

PROJECT: 1446

PAGE NO: 8 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 21, 1992

REF. TO CLAIM CORNER:

COORDINATES: 28+91 S W 94199 E

DATE FINISHED: FEB 22, 1992

SCALE: 1/2" = 10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 581'

LOGGED BY: CJW

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
	CARBONATE	FRACTURING	MINERAL										
420					MUD SEAM								
					418.5' - 475.0' VARIOLITIC PILLOWED BASALT CONT...		0.1	423	90	3086mm			
430													
							0.1	433	100				
440													
450					CORE TECH 46° TRUE			443	100				
460													
							0.5 1.0 1.0 CPY	453	100				
					7mm VEIN CPY WITH PY						466.0		
								463			463.0	3.0'	59943
470							0.5	468			472.0	3.0'	59944
											475.0	3.0'	59945
					GRADATIONAL CNT		0.5		100				
								479			479.0	4.0'	59946

HOLE NO. ML-92-10

PROJECT: 1446

PAGE NO: 9 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 21, 1992

REF. TO CLAIM CORNER:

COORDINATES: 28+91.5 N. 94+99 E.

DATE FINISHED: FEB 22, 1992

SCALE: 1"=10'

INCLINATION: -46° BEARING: 180°

TOTAL DEPTH: 581'

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	APPLE GREEN MICA	CARBONATE												
480							475.0' - 493.7' BRECCIATED BASALT CONT...					300mm	483.5	3.5'	59947
							CORE TRM SI @ 310/55 TO 300/45 (n=7) LIN. (SUP) 10/57° 12/55°		0.5		100		486.0	3.5'	59948
490							493.7' - 503.0' BRECCIATED ANORTHOSITE			489			489.0	3.0'	59949
							GRADATIONAL UNIT 4.0 to 5% PY		0.5		100		491.5	2.5'	59950
							MEDIUM GREY GREEN, FINE TO MEDIUM GRAINED, WEAKLY FOLIATED @ 70° TCA, MODERATELY BRECCIATED AND INFILLED WITH CARBONATE. MINOR TO 5% DISS. AND PATCHY PYRITE ASSOCIATED WITH DARK GREEN, WEAKLY SHEARED UNITS (60cm WIDE), POSSIBLY BASALT.		1.0 TO 5.0				493.7	2.2'	59951
500							GRADATIONAL UNIT		0.5 TO 1.0	499			496.0	2.3'	59952
							GRADATIONAL UNIT		0.5		100		499.0	3.0'	59953
							503.0' - 505.8' ALTERED ZONE		0.1				503.0	4.0'	59954
510							503.0' - 505.8' SHEARED ANORTHOSITIC GABBRO			509			505.0	2.8'	59955
							APPLE GREEN MICA (UP TO 10% OF UNIT) ASSOCIATED WITH LIGHT YELLOWISH BROWN, SERICITE ZONES IN ANORTHOSITE MINOR CARBONATE BRECCIATION STILL PRESENT. WEAK SHEARING @ 70° TCA. NO TRUE SHEAR ZONE PRESENT MINOR DISSEMINATED PYRITE.				100		509.0	3.2'	59956
520							505.8' - 539.0' ANORTHOSITIC GABBRO								
							GREEN AND WHITE, COARSE GRAINED, MASSIVE WITH 70% ROUNDED FELDSPAR PHENOS. MINOR CARBONATE FRACTURES; AND DARKER GREEN FINE GRAINED PORTIONS. TRACE PYRITE.			519					
530											100		531.5		
									0.5		100		536.5	4.0'	59957
										529			539.0	3.5'	59958
							GRADATIONAL			539					

HOLE NO. ML-92-10

PROJECT: 1446

PAGE NO: 10 OF 10

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 21, 1992

REF. TO CLAIM CORNER:

COORDINATES: 28+91 S N. 94+99 E.

DATE FINISHED: FEB 22, 1992

SCALE: 1"=10'

INCLINATION: -46°

BEARING: 180°

TOTAL DEPTH: 581'

LOGGED BY: ESW

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
	APPLE GREEN MICA	CARBONATE												
540														
550						<p>539.0' - 549.0' BRECCIATED GABBRO</p> <p>MEDIUM TO DARK GREEN, FINE GRAINED, MODERATELY WELL BRECCIATED AND WEAKLY FOLIATED @ 70° TCA. MODERATE CARBONATE IN FILLING AND TRACE TO MINOR APPLE GREEN MICA. MINOR TO 2% PYRITE ASSOCIATED WITH DARK GREEN WEAKLY SHEARED UNITS.</p> <p>GRADATIONAL CUT</p>		549	100			549.0'	2.0'	59959
560						<p>549.0' - 581.0' GABBRO</p> <p>DARK GREEN, FINE GRAINED, MASSIVE WITH MINOR FRACTURE RELATED CARBONATE ALTERATION. TRACE PYRRHOTITE NOTED.</p>		549	100			549.0'	3.2'	59961
570								549	100					
580						<p>CORE TEST P 46 = TRUE</p> <p>END OF HOLE @ 581'</p>		549	100					

HOLE NO. 92-11

PROJECT: 1446

PAGE NO: 1 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34655 N. 104+67 E. (OFF-SECTION)

DATE FINISHED: FEB 24, 1992

SCALE: 1/2" = 10'

INCLINATION: -48° BEARING: 210°

TOTAL DEPTH: 369' (112.5m)

LOGGED BY: CSW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	EPIDOTE	CARBONATE	FRACTURING	MINERAL GEOLOGY									
0					DESCRIPTIVE GEOLOGY								
					0.0' - 7.0' WATER					BW			
10					7.0' - 123.0 BASALT			90		BOCC			
					DARK GREEN FINE TO MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 70° TCA. WEAK FRACTURE CONTROLLED CARBONATE AND EPIDOTE ALTERATION TRACE DISSEMINATED PYRITE.			100					
20					NOTE: BECOMES INCREASINGLY FOLIATED (SHEARED) DOWN HOLE.			19					
							0.1	100					
30								29					
							0.1	100					
40								39					
							0.1	100					
50								49					
							0.1	100					
								59					

HOLE NO. ML-92-11

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34+65 S.M. 104+67 E.

DATE FINISHED: FEB 24, 1992

SCALE: 1 1/2" = 10'

INCLINATION: -48°

BEARING: 210°

TOTAL DEPTH: 369'

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.	ESTIMATED
	HEMATITE	EPIDOTE	CARBONATE												
60							7.0' - 123.0' BASALT CONT...		PY			Bottom			
70										69	100				
80										79	100				
90							-31 @ 65' TCA				100				
100									0.1	89	100				
110									0.1	99	100				
										109	100				
										119	100				

...LENC. ...-92...

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34+65 S N 104+67 E

DATE FINISHED: FEB 24, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 210°

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
	SERICITE	HEMATITE	EPIDOTE	CARBONATE												
120																
							GRADATIONAL CNT	7.0' - 123.0' <u>BASALT</u>		0.5			508cm	123.0	4.0'	59962
								CONT...		0.5	100			126.0	3.0'	59963
								<u>123.0' - 152.0' BRECCIATED, SHEARED BASALT</u>		0.5				123.0	3.0'	59964
130							MODERATELY SHEARED	MEDIUM GREEN, FINE GRAINED, MODERATELY BRECCIATED AND MODERATELY SHEARED @ 75°-80° TCA. MINOR DARK RED HEMATITE STAINING TO SHEARING. BRECCIA FRAGMENTS ARE WELL ROUNDED BUT ARE CLAST SUPPORTED. VERY RARE SERICITIC ALTERATION. TRACE TO MINOR PYRITE.		0.5	100			132.5	3.5'	59965
										0.5				136.0	3.5'	59966
140										0.5	100			139.0	3.0'	59967
										0.5				142.5	3.5'	59968
										0.5	100			146.0	3.5'	59969
150								<u>152.0' - 159.0' BRECCIATED GABBRO</u>		0.5				149.0	3.0'	59970
								MEDIUM GREEN, MEDIUM TO COARSE GRAINED, WEAKLY BRECCIATED AND INFILLED WITH CARBONATE. WEAKLY FOLIATED TO SHEARED @ 70° TCA. TRACE DISSEMINATED PYRITE.		0.5				152.0	3.0'	59971
										0.1	100			155.0	3.0'	59972
160								<u>159.0' - 228.0' GABBRO</u>		-						
								GREEN AND WHITE, MEDIUM TO COARSE GRAINED, MASSIVE TO WEAKLY FOLIATED @ 70° TCA. MINOR FRACTURE CONTROLLED CARBONATE ALTERATION. NIL TO TRACE PYRITE.		0.1	100					
170										0.1						
										0.1	100					
										0.1						

HOLE NO. ML-52-71

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34+655 N. 104+67 E.

DATE FINISHED: FEB 24, 1992

SCALE: 1"=10'

INCLINATION: 48° BEARING: 210°

TOTAL DEPTH: 369'

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	CARBONATE	FRACTURING	MINERAL										
180				QTZ		DESCRIPTIVE GEOLOGY								
						159.0' - 228.0' GABBRO				100	Bottom			
						CONT...				100				
190										100				
200										100				
210										100				
220										100				
230						228.0' - 241.0' SHEARED, BRECCIATED GABBRO		0.1		100		228.0		
						DARK GREEN, FINE GRAINED, MODERATELY SHEARED @ 70° TCA						232.0	4.0'	59973
						AND WEAKLY BRECCIATED AND INFILLED WITH CARBONATE.						235.5	3.5'	59974
						TRACE APPLE GREEN MICA. TRACE DISSEMINATED PYRITE.		0.1		100		239.0	3.5'	59975
						MINOR PATCHY QUARTZ VEINS.						239.0		

GRADATIONAL CONTACT

HOLE NO. ML-92-11

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34+65 S N 104+67 E

DATE FINISHED: FEB 24, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 210°

TOTAL DEPTH: 363'

LOGGED BY: OSW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL	GEOLOGY									
240				Qtz	GRADATIONAL CNT		PY			0.000m	241.0	2.0'	59976
					228.0' - 241.0' SHEARED, BRECCIATED GABBRO								
					CONT...		0.1	100					
250					241.0' - 301.0' GABBRO TO BRECCIATED, SHEARED GABBRO			249					
					MEDIUM TO DARK GREEN, FINE TO COARSE GRAINED,				100				
					MASSIVE TO MODERATELY SHEARED AND BRECCIATED WITH			259					
260					Si @ 65° TCA. CARBONATE ASSOCIATED WITH EPIDOTES AND				100				
					ALSO FRACTURE CONTROLLED. TRACE DISSEMINATED								
					PYRITE			269					
270									100				
								279					
280							0.1	100					
								289					
290							0.1	100					
								299					

Si @ 290/62 (n=5)

CORE TECH @ 48° TRUE

HOLE NO. ML-92-71

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34+655 N 104+67 E

DATE FINISHED: FEB 24, 1992

SCALE: 1/4" = 10'

INCLINATION: -48° BEARING: 210°

TOTAL DEPTH: 369'

LOGGED BY: CJW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL	GEOLOGY									
300					GRADATIONAL CNT					Bottom			
					241.0' - 301.0' GABBRO TO BRECCIATED, SHEARED GABBRO CONT...				100				
310					301.0' - 325.0' GABBRO MEDIUM GREEN AND WHITE, MEDIUM TO COARSE GRAINED, MASSIVE WITH A NARROW SHEARED, BRECCIATED SECTION. FRACTURE AND VEINLET CARBONATE ALTERATION, NIL TO TRACE PYRITE.		0.1	309	100		309.0	3.5'	59977
320					GRADATIONAL CNT								
					325.0' - 344.0' GABBRO TO BRECCIATED, SHEARED GABBRO AS IN 241.0' - 301.0' BUT SECTION ARE BADLY BROKEN-UP AND WEATHERED. TRACE PYRITE.		0.1	319	100				
330					GRADATIONAL CNT								
					344.0' - 369.0' GABBRO DARK GREEN, FINE GRAINED, MASSIVE TO WEAKLY FOLIATED @ 65° TCA. MINOR FRACTURE RELATED CARBONATE ALTERATION, NIL TO TRACE PYRITE			329	80				
340					GRADATIONAL CNT								
							0.1	339	90				
350								349					
									100				
								359					

HOLE NO. ML-92-71

PROJECT: 1446

PAGE NO: 7 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34+655 N 104+67 E

DATE FINISHED: FEB 24, 1992

SCALE: 1"=10'

INCLINATION: -48°

BEARING: 210°

TOTAL DEPTH: 369'

LOGGED BY: CSW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
360					DESCRIPTIVE GEOLOGY 344.0' - 369.0' GABBRO CONT... No TEST END OF HOLE @ 369'			100	300cm				

HOLE NO. ML-92-72

PROJECT: 1446

PAGE NO: 1 OF 6

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 25/92

REF. TO CLAIM CORNER:

COORDINATES: 33+255 N. 102+00 E.

DATE FINISHED: FEB 26/92

SCALE: 1"=10'

INCLINATION: -53° BEARING: 180°

TOTAL DEPTH: 309'

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
	APPLD GREEN MIC	SERICITE	CARBONATE												
0							0.0' - 24.0' OVERBURDEN CASING REMAINS					BW			
24.0							24.0' - 50.9' BRECCIATED BASALT DARK GREEN, APHANITIC, CHLORITIC, MASSIVE TO MODERATELY FOLIATED BRECCIA FRAGMENTS, FRAGMENT SUPPORTED, MATRIX IS CALCITE, FEW 1-2' INTERVALS WITH FE STAIN - QTZ VEINLETS - SHEARED ROCK, WEAK TO MODERATE CARBONATE - NOT PERVASIVE - LIMITED TO MATRIX, TRACE PYRITE DISSEMINATED - WITH MATRIX	0.5		100		80844	32.6'		
32.6							FE STAIN, MINOR QTZ INTENSE SHEARING	0.1	27	100			4.4'	59978	
37.0							FE STAIN INTENSE SHEARING		39						
50.9							SHARP S ₁ AT 80° TO CA	0.1		100					
50.9							50.9' - 75.0' INTENSELY SHEARED AND BRECCIATED BASALT DARK GREEN, APHANITIC, CHLORITIC, CARBONATE RICH, INTENSELY SHEARED - WELL FOLIATED FRAGMENTS MODERATE CARBONATE - NOT PERVASIVE, TRACE DISS. PYRITE, INCREASING SERICITE THROUGH THE INTERVAL		49				3.1'	59979	
54.0										100			4.0'	59980	
58.0							- INTRUSIVE FRAGS?		59				4.0'	59981	

HOLE NO. ML-92-72

PROJECT: 1446

PAGE NO: 4 OF 6

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 25/92

REF. TO CLAIM CORNER:

COORDINATES: 33+255 N. 102+00 E.

DATE FINISHED: FEB 26/92

SCALE: 1" = 10'

INCLINATION: -53° BEARING: 180°

TOTAL DEPTH: 309'

LOGGED BY: R.G. BANNER

SECTION	ALTERATION			GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	CARBONATE	FRACTURING	MINERAL										
180					147.6' - 206.7' BRECCIATED GABBRO								
					VUGY		0.1		100				
190								189					
							0.1		100				
200					BULL QTZ VEIN			199					
					VUGY		0.1		100				
					SHARP								
210					INT. INTRUSIVE DYKE			209					
					DARK GREEN, PLAGIOCLASE PHYRIC WITH 15-20% 2-4MM IDIOMORPHIC PHENOCRYSTS, FEW CARBONATE VEINS, FEW SILICA VEINLETS, RARE SULPHIDE		0.1		100				
220								219					
							0.1		100				
230								229					
					VUGY - CARB		0.1		100				
								239					

FILE NO. L-92-2

PROJECT: 1446

PAGE NO: 5 OF 6

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 25/92

REF. TO CLAIM CORNER:

COORDINATES: 33+255 N. 102+00 E.

DATE FINISHED: FEB 26/92

SCALE: 1"=10'

INCLINATION: -53° BEARING: 180°

TOTAL DEPTH: 309'

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
240							206.7' - 309.0' GABBRO CONT...		0.1	247	100	80064			
250							0.5 cm Py Cubes ANORTHOSITIC		0.1	257	100				
260									0.1	267	100				
270									0.1	277	100				
280							MAGNETITE		0.1	287	100				
290									0.1	297	100				
									0.1	307	100				

HOLE NO. 11L-92-10

PROJECT: 1446

PAGE NO: 1 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 26, 1992

REF. TO CLAIM CORNER:

COORDINATES: 33+00 S. 103+70 E. (OFF-SECTION)

DATE FINISHED: FEB 28, 1992

SCALE: 1"=10'

INCLINATION: -54° BEARING: Z10°

TOTAL DEPTH: 389.0' (118.6m)

LOGGED BY: CTW

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL	GEOLOGY									
0				QTZ	<p>0.0'-39.0' OVERBURDEN CASING REMAINS</p>					BW			
10													
20													
30													
40					<p>39.0'-189.0' BASALT</p> <p>DARK GREEN, FINE TO MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 55°TCA. MINOR FRACTURE CONTROLLED CARBONATE ALTERATION. NIL TO TRACE DISSEMINATED PYRITE. MORE INTENSE BRECCIA CONTROLLED CARBONATE ALTERATION NEAR BOTTOM OF INTERVAL.</p>		39			600cm			
45									100				
50								49					
55									100				
							55						

HOLE NO. ML-92-73

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 26, 1992

REF. TO CLAIM CORNER:

COORDINATES: 33+00 S N. 103+70 E.

DATE FINISHED: FEB 28, 1992

SCALE: 1"=10'

INCLINATION: -54° BEARING: 210°

TOTAL DEPTH: 389'

LOGGED BY: CSW

SECTION	ALTERATION			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	FRACTURING											
180					<p>39.0' - 189.0' BASALT</p> <p>CONT...</p>				100	300cm			
190					<p>189.0' - 215.3' SHEARED BASALT</p> <p>MEDIUM GREEN WITH MEDIUM BROWNISH GREY AREAS, FINE GRAINED, WEAKLY TO MODERATELY SHEARED @ 80° TCA. DEFINED BY CHLORITIC SHEARS. WEAKLY TO MODERATELY FRACTURED WITH FRACTURES CONTAINING CARBONATE ALTERATION. ALSO MODERATE PERVASIVE CARBONATE. NIL TO TRACE PYRITE.</p>		0.1	189	100		199.0'		
200							0.1	199	100		202.0'	3.0'	59995
							0.1		100		205.5'	3.5'	59996
210					<p>215.3' - 232.0' SHEARED, BRECCIATED BASALT</p> <p>MEDIUM GREEN, FINE GRAINED, WEAKLY TO MODERATELY BRECCIATED WITH CARBONATE INFILLING, MODERATELY TO STRONGLY SHEARED @ 70-75° TCA. MINOR WHITE AND SMOKEY QUARTZ VEIN (10cm) WITH DISS. PYRITE. UP TO 1% DISS. AND PATCHY PYRITE THROUGHOUT SECTION.</p>		0.1 TO 1	209	100		212.0'	3.3'	59997
							0.1 TO 0.5	219	100		219.0'	3.7'	59998
220									100		223.0'	4.0'	59999
											227.0'	4.0'	60000
											229.5'	2.5'	60000
230					<p>232.0' - 251.0' BRECCIATED BASALT</p> <p>MEDIUM GREEN, FINE GRAINED, MASSIVE TO WEAKLY FOLIATED @ 70° TCA. WEAKLY TO MODERATELY BRECCIATED AND INFILLED WITH CARBONATE MASSES AND VEINLETS. FRAGMENTS ARE RELATIVELY ANGULAR AND SHOW NO ROTATION. TRACE TO MINOR PYRITE.</p>		0.1	229	100		232.0'	2.5'	60001
								235					

HOLE NO. ML-92-73

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 26, 1992

REF. TO CLAIM CORNER:

COORDINATES: 33+00 S N. 103+70 E.

DATE FINISHED: FEB 28, 1992

SCALE: 1"=10'

INCLINATION: -54° BEARING: 210°

TOTAL DEPTH: 389'

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
	APPLE GREEN MICA	CARBONATE												
240						232.0' - 251.0' BRECCIATED BASALT CONT...		0.1	243	100	BOTTOM	247.0'		
250						251.0' - 259.0' BASALT AS IN 39.0' - 189.0'		0.1	259	100		251.0'	4.0'	60602
260						259.0' - 288.5' GABBRO MEDIUM GREEN AND WHITE, FINE TO MEDIUM GRAINED (BECOMES COARSER DOWN HOLE) MASSIVE, MINOR FRACTURE CONTROLLED CARBONATE ALTERATION. NIL TO TRACE PYRITE. SEVERAL SMALL (<25cm) INTERMEDIATE INTRUSIVE UNITS NOTED.		—	269	100				
270						288.5' - 311.0' ANORTHOSITIC GABBRO MEDIUM GREEN AND WHITE, COARSE GRAINED, SUBROUNDED FELDSPARS. MASSIVE WITH WEAKLY SHEARED, GREEN, FINE GRAINED SECTIONS ASSOCIATED WITH VERY MINOR APPLE GREEN MICA, MINOR CARBONATE UNITS. NIL TO TRACE PYRITE.		—	279	100				
280								0.1	289	100				
290						SHARP CNT @ 60° TEA		—	299	100		293.5'		
						SIE 233/46 Poor 287/58 CORE TECH @ 53° TRUE		—	299	100		293.0'	3.5'	60603

HOLE NO. ML-92-73

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 26, 1992

REF. TO CLAIM CORNER:

COORDINATES: 337095 N. 103770 E.

DATE FINISHED: FEB 28, 1992

SCALE: 1"=10'

INCLINATION: -54° BEARING: 210°

TOTAL DEPTH: 389'

LOGGED BY: CJW

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% PYR SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	EPID	CHL	MPLE GREEN MICA	CARBONATE												
300			///					288.5' - 311.0' ANORTHOSITIC GABBRO					800M	301.0		
			///			x		CONT...			100			304.5	3.5	60604
310			///			x	GRADATIONAL CNT	311.0' - 389.0' GABBRO			309					
			///			x		AS IN 259.0' - 288.5' BUT MEDIUM TO COARSE			100					
			///			x		GRAINED, MASSIVE, MINOR FRACTURE CONTROLLED			319					
320			///			x		CARBONATE ALTERATION. NIL TO TRACE PYRITE.		0.1	100					
			///			x					329					
330			///			x					100					
			///			x					339					
340			///			x					100					
			///			x					349					
350			///			x					100					
			///			x					359					

HOLE NO. ML-92-74

PROJECT: 1446

PAGE NO: 1 OF 3

#1 WP

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 29/92

REF. TO CLAIM CORNER: 903219

COORDINATES: 33+00 S N. 101+50 E.

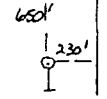
DATE FINISHED: MAR 1/92

SCALE: 1"=10'

INCLINATION: -53° BEARING: 180°

TOTAL DEPTH: 179'

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
0							0.0' - 45.0' OUERBURDEN CASING REMAINS					BW			
10															
20															
30															
40															
45							<u>45.0' - 77.8' APPLE ISLAND FLEXURE</u>	0.1		90		BDBCM	5.0'	60605	
50							<u>45.0' - 56.7' SHEARED AND BRECCIATED BASALT</u> DARK GREY GREEN, APHANITIC, WEAK TO MODERATELY FOLIATED, QTZ BLEBS, SERICITE-CHLORITE, FEW QTZ VEINLETS WITH PY, TRACE DISSEMINATED PYRITE, WEAK CARB		49				3.0'	60606	
								0.1		90			3.7'	60607	
													3.3'	60608	

QZ-PY VEINLET
FE-STAIN

HOLE NO. ML-92-14

PROJECT: 1446

PAGE NO: 2 OF 3

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 29/92

REF. TO CLAIM CORNER:

COORDINATES: 33+00 S.M. 101+50 E.

DATE FINISHED: MAR 1/92

SCALE: 1"=10'

INCLINATION: -53° BEARING: 180°

TOTAL DEPTH: 129'

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.	ESTIMATED
	APPLE GREEN	CARBONATE	FRACTURING										
60													
60-70			///				0.1	80		60	4.0' (3.0')	60609	
70-75			///					69		64	5.0' (4.0')	60610	
75-80			///				0.1	85		69	5.0' (3.0')	60611	
80-85			///		ARBITRARY GRADATIONAL			79		78	4.0' (3.0')	60612	
85-90			///				0.1	100					
90-95			///					89					
95-100			///				0.5	70		93	6.0' (4.0')	60613	
100-105			///		QTZ RUBBLE VUGY (CARB OUT)			99		99	5.0' (3.5')	60614	
105-110			///		QTZ-PY VM		0.5	70		104	5.0' (3.5')	60615	
110-115			///		RUBBLE			109		109			
115-120			///					60					
120-129			///		APPROXIMATE			119					

DESCRIPTIVE GEOLOGY

56.7' - 74.0' SHEARED BASALT

DARK GREEN, APHANITIC, CHLORITIC-SERICITIC, INTENSE TO MODERATE SHEARING, FEW QTZ VEINLETS, MINOR PINKISH CARB VEINLETS, TALCOUS, TRACE PYRITE AS DISSEMINATIONS, BLEBS, CLUSTERS

74.0' - 78.0' SHEARED AND BRECCIATED BASALT

AS IN 45 - 56.7, TRACE TO MINOR PYRITE

78.0' - 109.0' BRECCIATED BASALT

DARK GREEN, APHANITIC, CHLORITIC, MINOR SHEARING 10-30% WHITE CARBONATE AND BRECCIA FILLING RARE GREENISH SERICITE "SLIPS", TRACE PYRITE AS DISSEMINATIONS, BLEBS, AND CLUSTERS, TRACE APPLE GREEN MICA

109.0' - 115.5' ANORTHOSITIC GABBRO

WHITE TO DARK GREEN, FELDSPAR PHYRIC WITH UP TO 40% 1-4 MM SUBIDIOMORPHIC PLAGIOCLASE PHENOCRYSTS CHLORITIC WITH MINOR SERICITE (TRACE APPLE GREEN), CHLORITIC FRACTURES, TRACE PYRITE

HOLE NO. ML-72-74

PROJECT: 1446

PAGE NO: 3 OF 3

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEB 29/92

REF. TO CLAIM CORNER:

COORDINATES: 33+00S N. 101+50 E.

DATE FINISHED: MAR 1/92

SCALE: 1"=10'

INCLINATION: -53° BEARING: 480°

TOTAL DEPTH: 179'

LOGGED BY: R.G. BANNER

SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL	GEOLOGY									
120					<p>115.5' - 179.0' GABBRO</p> <p>DARK GREEN, FINE TO MEDIUM GRAINED, CHLORITE WITH 30% IDIOMORPHIC PLAGIOCLASE PHENOCRYSTS TO 2MM</p> <p>MINOR QUARTZ VEINING, MASSIVE, UP TO 5% DISSEMINATED MAGNETITE, MINOR CARBONATE VEINLETS, LOCAL GREENISH SILICA ON FRACTURES, TRACE CHALCOPYRITE IN VEINS, TRACE PYRITE</p>								
130				QZ U M Cp < 1%		0.1	129	100					
140						0.1 Py, Cp	139	100					
150				DIP TEST 52° TRUE			149	100					
160							159	100					
170							169	100					
END OF HOLE 179'													

HOLE NO. ML-92-75

PROJECT: 1446

PAGE NO: 1 OF 5

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 2, 1992

REF. TO CLAIM CORNER: PA1180578

COORDINATES: 30+005 N. 89+00 E.

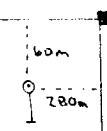
DATE FINISHED: MARCH 3, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 295' (91.1m)

LOGGED BY: CSW



SECTION	ALTERATION				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	EPIDOTE	CARBONATE	FRACTURING	MINERAL GEOLOGY									
0					<p>DESCRIPTIVE GEOLOGY</p> <p>0.0' - 29.0' OVERBURDEN</p> <p>CASING REMAINS</p>					BW			
30					<p>29.0' - 49.5' GABBRO</p> <p>MEDIUM GREEN, MEDIUM TO COARSE GRAINED, MASSIVE. WITH MINOR CARBONATE VNLTs. NO SULPHIDE NOTED. VERY SHARP CONTACT WITH BASALT.</p>		29		100	800cm			
40					<p>49.5' - 85.0' PORPHYRITIC BASALT (MAFIC DIKE?)</p> <p>DARK GREEN, VERY FINE GRAINED, MASSIVE, VERY BROKEN-UP AND FRACTURED FROM 64.0' - 84.0'. VERY MINOR FRACTURE CONTROLLED CARBONATE ALTERATION. MODERATE MASSIVE "BANDS" OF EPIDOTE ALTERATION UP TO 6cm WIDE. UNIT CONTAINS SMALL (<1mm) SUBIDIOMORPHIC FELDSPAR PHENOS. TRACE PYRITE.</p>		39		100				
50					<p>SHARP CUT @ 100 TCA</p>		49		100				
							0.1						
							59						

HOLE NO. ML-32-75

PROJECT: 1446

PAGE NO: 3 OF 5

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 2, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+005 N 89+00 E

DATE FINISHED: MARCH 3, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 299'

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
	HEMATITE	EPIDOTE	CARBONATE												
120							85.0' - 159.0' GABBRO CONT...		1	129	100	306cm			
130									1	139	100				
140									1	149	100				
150							159.0' - 190.0' BRECCIATED, SHEARED GABBRO MEDIUM TO DARK GREEN, FINE TO MEDIUM GRAINED, WEAKLY TO MODERATELY SHEARED @ 50° TCA. BRECCIATION IS WEAKLY DEVELOPED WITH CARBONATE ALTERATION GENERALLY RESTRICTED TO VNITS. MINOR HEMATITE AND EPIDOTE ALTERATION. TRACE TO MINOR PYRITE.		1	159	100		159.0'		
160									0.1	169	100		162.5'	3.5'	60616
170									0.1	179	100		165.5'	3.0'	60617
									0.1	189	100		169.5'	3.5'	60618
									0.1	199	100		172.5'	3.5'	60619
										179					

CORE TECH @ 51° TRUE

GRADATIONAL CNT

HOLE NO. ML-92-75

PROJECT: 1446

PAGE NO: 4 OF 5

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 2, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+00 S. 89+00 E.

DATE FINISHED: MARCH 3, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 299'

LOGGED BY: CJSV

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
	HEMATITE	CHLORITE	CARBONATE												
180															
							189.0' - 190.0' BRECCIATED, SHEARED GABBRO CONT...		0.1	189	100	800mm	180.0'	4.0	60620
190							GRADATIONAL CNT 190.0' - 211.5' GABBRO AS IN 29.0' - 49.5'				100				
200							211.5' - 214.0' TONALITE MEDIUM GREY, FINE TO MEDIUM GRAINED, MASSIVE, MINOR FRACTURE CONTROLLED CARBONATE ALTERATION. NO SULPHIDES NOTED			199	100				
210							GRADATIONAL CNTS 214.0' - 232.0' GABBRO AS IN 29.0' - 49.5'		0.1	209	100				
220							232.0' - 234.5' BRECCIATED, SHEARED GABBRO DARK GREEN, FINE GRAINED, WEAKLY SHEARED @ TCA. BRECCIATION IS MODERATELY DEVELOPED WITH SOME ROTATION OF FRAGMENTS AND MODERATELY DEVELOPED CARBONATE MATRIX. TRACE SULPHIDE NOTED			219	100				
230							GRADATIONAL CNTS 234.5' - 246.0' TONALITE AS IN 211.5' - 214.0' BUT COARSER GRAINED AND MINOR SPOTTY CHLORITE AND HEMATITE ALTERATION. NO SULPHIDES NOTED.		0.1	229	100		232.0'	2.5'	60621
										239					

HOLE NO. 11-11-76

PROJECT: 1446

PAGE NO: 1 OF 2

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER: PA1180579

COORDINATES: 30+00 S N 86+73 E

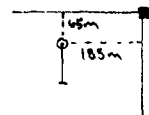
DATE FINISHED: MARCH 5, 1992

SCALE: 1"=10'

INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 399' (121.6m)

LOGGED BY: R.G. BONNIER



SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP. INT.	ESTI-MATED
	LIMONITE	SILICIFICATION	CARBONATE												
0							0.0' - 10.0' OVERBURDEN CASING REMAINS					80			
10							10.0' - 147.0' TONALITE								
						QZ-PY VEIN COPPER PENNY IN CORE BOX - RAD ASSAY	BUFF TO YELLOWISH GREY, FINE TO MEDIUM GRAINED, QUARTZ, PLAGIOCLASE, MINOR CHLORITE, MASSIVE TO WEAKLY FOLIATED, VERY HARD, WEAK PATCHY CARBONATE AS FRACTURE FILLING AND PERVASIVE, SEVERAL QUARTZ- PYRITE VEINS, UP TO 1% DISSEMINATED PYRITE AS BLEBS, FRACTURE COATING, CRYSTALS, PATCHY SILICIFICATION, SUBCROP (0-5%) LIMONITE STAIN, UGLY QZ-PLAG PEBBLES IN CORE BOX (WEATHERED SULPHIDE RICH VEINS, MINOR ROCK ALT WITHIN VEINS TO MUSCOVITE	0.5-1	100		15	4.0'	60628		
						QZ-PY VEIN (2CM TRUE) 30° TO CA		17		19		4.0'	60629		
						QZ-PY VEIN		0.5-1	100	23		4.0'	60630		
						QZ-PY VEINLET 25° TO CA				25.9		2.9'	60631		
						QZ-PY STRINGER				28		2.1'	60632		
						QZ-PY STRINGER				29		4.0'	60633		
						CARB-QZ VEIN (UGLY)		0.5	100	32		4.0'	60634		
						QZ-PY VEINLET				36		3.0'	60635		
						QZ-PY VEIN		0.1	100	39		4.5'			
						QZ-PY STRINGER				48		3.5'	60636		
						QZ-PY VEIN				49		4.0'	60637		
						QZ-PY STRINGER				52					
50								0.1	100						
										59					

↑
INCREASING
QUARTZ
+
PYRITE

HOLE NO. ML-92-76

PROJECT: 1446

PAGE NO: 3 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
	CARBONATE	FRACTURING	MINERAL										
120					100.0' - 147' TONALITE CONT...		0.5		100				
130				SS	QZ-FELD-PY VEIN WITH CHL-PY FRACTURES			129			127.7'	2.3'	60640
140					CHLORITIC - PYRITIC - QUARTZ FRACTURE CONTINUE BUT ARE SCATTERED		0.1		100		130.4'		
148								139					
150					147.0' - 180.1' MAFIC DYKE 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		0.1		100				
160								149					
170								159					
								169					
								179					

SS

SHARP 208/82
CORE TECH
52° TRUE

BDDGK

↓

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 N. 86+73 E.

DATE FINISHED: MARCH 5, 1992

SCALE: 1"=10'

INCLINATION: -52

BEARING: 180°

TOTAL DEPTH: 399'

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
	SILICIFICATION	CARBONATE												
180						SHARP					BOTTOM			
						<u>180.1 - 356.8' TONALITE</u>								
						AS IN 10.0 - 147.0'		0.5	189	100				
190						PY-CHL FRAC		0.1		100				
200								0.1	199	100				
210						QZ VEIN		0.1	209	100				
220								0.1	219	100				
230						MINOR VEIN AND PERITIC SHEAR AT 30° TO CA		0.1	229	100		229	40'	60641
								0.5		100		233		
									239					

HOLE NO. ML-92-76

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+00SM 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 VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	CARBONATE	SERICITE												
300		-	-				180.1' - 356.8' TONALITE CONT...		0.1	309	100	SDGM			
310	-	-	-				QZ VEIN } RUBBLE		0.1		100				
320	-	-	-				S ₁ AT 65° TO CA			319					
	-	-	-				S ₁ AT 50° TO CA		0.1		100				
330	-	-	-				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 QZ VEIN GENERATIONS, THE LAST IS NOT SHEARED, TRACE TO 1% SCATTERED PYRITE		0.1	329	100				
340	-	-	-				QZ-PY VEINLET QZ VEINLET		0.1	339	100				
350	-	-	-				SHARP		0.5	349	100				
										359			356.8	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 + 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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	CARBONATE	SERICITE												
360							S ₁ AT 078/87 LATE QZ VEIN S ₁ AT 245/85		0.1		100	820.4	359	4.0'	60644
							CONT. ...						363	4.0'	60645
370							SHARP LATE QZ VEINS AT CONTACT 099/79			369			366	2.6'	60646
							AS IN 180.1 - 356.8		0.1		100		373.6	4.0'	60647
380							MAFIC DYKE → CNT AT 269/70 CORE TECH 52° TRUE			379					
390									0.1		100				
400							END OF HOLE 399'		0.1		100				

HOLE NO. ML-92-77

PROJECT: 1446

PAGE NO: 2 OF 4

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: 229'

LOGGED BY: CSW

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
	SILICIFICATION	RUSTY CARBONATE	CHLORITE	CARBONATE												
60																
70																
80																
85.5								5.0' - 229.0' TONALITE					60648	3.5'	60648	
89.0								CONT...					60649	4.0'	60649	
93.0													60650	4.0'	60650	
97.0													60651	3.0'	60651	
100.0													60652	4.0'	60652	
104.0																
109																
119																

↑ AREA OF LIGHT PINK ALTERATION ↓

↑ BLEBBIED ↓

Bottom

HOLE NO. ML-92-77

PROJECT: 1446

PAGE NO: 3 OF 4

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 5, 1992

REF. TO CLAIM CORNER:

COORDINATES: 29+67 S N 86+73 E

DATE FINISHED: MAR 6, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 229'

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
	SKELIFIED	IRON CARBONATE	CHLORITE	CARBONATE												
120	/	/	/	/												
130	/	/	/	/												
140	/	/	/	/			LT. PINK P.L.T.									
150	/	/	/	/			CORE TECH 48° TRUE									
160	/	/	/	/										159.0	4.0'	60653
170	/	/	/	/			BLEACHED							163.0	4.0'	60654
	/	/	/	/												

5.0' - 229.0' TONALITE
CONT...

bottom

V

HOLE NO. ML-92-77

PROJECT: 1446

PAGE NO: 4 OF 4

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 5 1992

REF. TO CLAIM CORNER:

COORDINATES: 29+675 N 86+73 E

DATE FINISHED: MAR 6, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFIED	ROSETT CARBONATE	CHLORITE	CARBONATE												
180							BLEACHED	5.0' - 229.0' TONALITE CONT...		1	183	100	3.0m			
190										0.1	193	100				
200										0.1	193	100				
210										0.5 TO 3.0	209	100		209.0'		
														212.5'	3.5'	60655
														215.7'	3.2'	60656
														219.0'	3.3'	60657
														222.5'	3.5'	60658
										0.5 TO 1.0	219	100		226.0'	3.5'	60659
														229.0'	3.0'	60660
								NO TEST								
								END OF HOLE @ 229.0'								

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-92-78

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 6, 1992

REF. TO CLAIM CORNER:

COORDINATES: 110+00 N. 3+13 W R

DATE FINISHED: MARCH 8, 1992

SCALE: 1"=10'

INCLINATION: -50° BEARING: 180°

TOTAL DEPTH: 399'

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.	ESTIMATED
60							57.7' - 79.0' BASALT CONT...		-	49	100	80BGM			
70									-	100					
80							ARBITRARY 79.0' - 83.0' IRONSTONE / CHLORITIC MUDSTONE DARK GREEN TO BLACK, APHANITIC, CHLORITIC WITH UP TO 10 CM THINLY BEDDED MAGNETITE-CHERT IRONSTONE BEDS AND FRAGMENTS, CARBONATE FRACTURE FILLING, TRACE DISSEMINATED PYRITE AS BLEBS		0.1	79	100				
90									0.1	89					
100							83.0' - 159.0' BASALT AS IN 57.7' - 79.0', FELDSPAR PHYRIC WITH UP TO 10% FINE IDIOMORPHIC 1-2 MM PLAGIOCLASE PHENOCRYSTS, CARBONATE DISSIPATES AT 94' MINOR FINE GREEN SILICA VEINLETS, RARE PYRITE		0.1	99	100				
110							PHYRIC		-	109					
									-	119					

HOLE NO. ML-92-78

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 6/92

REF. TO CLAIM CORNER:

COORDINATES: L10+00 N. 3+13W E

DATE FINISHED: MAR 8/92

SCALE: 1" = 10'

INCLINATION: -50° 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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
120							83.0' - 159.0' BASALT CONT...		1	129	100	30864			
130							VUGY/RUBBLE ↓		1	139	90				
140									1	149	100				
150							DIP TEST -50° TRUE		1	159	90				
160							ARBITRARY ARBITRARY		1	169	100				
170							162.0' - 250.0' BASALT AS IN 83.0 - 159.0		1	179	100				

HOLE NO. ML-92-78

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 6/92

REF. TO CLAIM CORNER:

COORDINATES: L10+00 N. 3+13 W E

DATE FINISHED: MAR 8/92

SCALE: 1"=10'

INCLINATION: -50° 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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
180							162.0' - 250.0' BASALT CONT...		1	189	90	1000SM			
190						RUBBLE			1	199	90				
200						RUBBLE			1	209	100				
210						RUBBLE			1	219	100				
220									0.1	229	80				
230							POOR RECOVERY RUBBLE		0.1	239	30				

HOLE NO. ML-92-78

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 6/92

REF. TO CLAIM CORNER:

COORDINATES: L10+00 N. 3+13 W E

DATE FINISHED: MAR 8/92

SCALE: 1" = 10'

INCLINATION: -50° BEARING: 180°

TOTAL DEPTH: 399'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION			FRACTURING	% MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTI-MATED
240							<p>162.0' - 250.0' BASALT</p> <p>CONT...</p>		0.1		30	DD2674			
250						<p>ARBITRARY</p>	<p>250.0' - 259.0' IRONSTONE / CHLORITIC MUDSTONE</p> <p>AS IN 79.0 - 83.0, MINOR JASPER, IRONSTONE COMPONENT IS FRACTURED WITH PYRITE IN-FILLING</p>		1	249	40		250	9.0' (4.0')	60661
260						<p>ARBITRARY</p>	<p>259.0' - 289.0' BASALT</p> <p>AS IN 83.0' - 159.0', CORE IS ONLY RUBBLE, BLOCKS BECOME VUGY (CARBONATE BRECCIA) AFTER 279', TRACE SULPHIDE</p>		0.1	259	90		259		
270									-	269	40				
280						<p>IRONSTONE FRAGMENTS</p> <p>FRAGMENTS CHANGE</p>	<p>289.0' - 299.0' SHEARED BASALT (CHLORITE SCHIST)</p> <p>DARK GREEN, RUBBLE, APHANITIC, CHLORITE-MUDDY RUBBLE FRAGMENTS ARE SHEARED - WELL FOLIATED RARE SPECK PYRITE</p>		-	279	50				
290						<p>FEW QZ FRAGMENTS (SMALL VEIN)</p> <p>FRAGMENTS CHANGE</p>			-	289	40		289	10.0' (4.0')	60662
										299			299		

DIP TEST 299' = 49.5° TRUE

HOLE NO. ML-92-78

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 6/92

REF. TO CLAIM CORNER:

COORDINATES: 110+00 N. 3+13 W

DATE FINISHED: MAR 8/92

SCALE: 1"=10'

INCLINATION: -50° BEARING: 180°

TOTAL DEPTH: 399'

LOGGED BY: R.G. BONNER

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / MOLE	% SULPHIDES DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	LIMONITE	APPLE GREEN	SERICITE	CARBONATE											
300															
							<u>NORTH FLEXURE 299.0' - 373.0'</u>								
							<u>299.0' - 309.0' SHEARED BASALT</u>		0.5		60		295 305	6.0' (3.5')	60663
							GREY TO DARK GREEN, APHANITIC, SERICITE-CHLORITE				100			4.0	60664
310							SHARP AT 50° TO CA		1%	309			309 309.9	0.9	60665
							INTENSELY SHEARED - WELL FOLIATED, MINOR PYRITE							4.1'	60666
							<u>309.0' - 309.9' QUARTZ VEIN</u>		0.5		100		314		
							LIMONITE							5.0'	60667
							S ₁ AT 70° TO CA								
320							INTRUSIVE (6cm)??			319			319	5.0' (3.3)	60668
							POCK MARKS, WEAK ALMOST APPLE GREEN MICA RIBBONS		0.5		60		324 326	2.0'	60669
							INCREASING SERICITE								
							ARBITRARY								
							QTZ-PY VEIN		7-10	329			330	4.0' (1.5)	60670
330							<u>326.0' (?) - 330.0' (?) SULPHIDE ZONE (1.5' RECOVERY)</u>		30%						
							GREY, APHANITIC, SERICITE, QTZ VEIN, PYRITE		0.5-1		40			7.5' (3.0)	60671
							S ₁ AT 50° TO CA								
							VERY POOR RECOVERY ← CONTACT FOOTAGES ARE AS FAIR AS POSSIBLE								
340							<u>330.0' (?) - 358.5' APPLE GREEN SCHIST</u>			339					
							S ₁ AT 70° TO CA								
							LIMONITE		0.5		50			10.0' (5.0)	60672
							WHITE TO APPLE GREEN, APHANITIC, SERICITE, QTZ RIBBONS, LESS THAN 1% DISSEMINATED PYRITE BLEBS								
							INTERVALS WITH LIMONITE AND HEMATITE STAINING, FEW								
							QTZ VEINS			349			348.5		
350							<u>358.5' - 360.5' QUARTZ VEIN</u>		0.5		50				
							HEMATITE								
							HEMATITE SHARP								
							WHITE WITH APPLE GREEN ALTERED LITHICS, MINOR PY								
										359			358.5	2.0'	60674

HOLE NO. ML-42-78

PROJECT: 1446

PAGE NO: 7 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 6/92

REF. TO CLAIM CORNER:

COORDINATES: 110+00 N. 3+13 W R

DATE FINISHED: MAR 8/92

SCALE: 1" = 10'

INCLINATION: -50° 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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	LIMONITE	APPLE GREEN	SERICITE	CARBONATE												
360																
370																
380																
390																
400																
410																

NORTH FLEXURE 299.0' - 373.0' CONT...

360.5' - 369.0' APPLE GREEN SCHIST

AS IN 330.0 - 358.5, TRACE PYRITE, WEAKER OVERALL

369.0' - 371.0' QUARTZ VEIN

BULL WHITE, NO SULPHIDE

371.0' - 373.0' SHEARED GABBRO

GREEN, GRADATIONAL TO BRECCIATED GABBRO, CHLORITIC

TO CLAY, NO SULPHIDE

373.0' - 379.0' BRECCIATED GABBRO

GREEN TO BROWNISH, MEDIUM GRAINED, CHLORITIC TO

CLAY SECTIONS, VUGY DUE TO CARBONATE REMOVAL

379.0' - 399.0' GABBRO

AS ABOVE - WITHOUT BRECCIATION

399' END OF HOLE

DIP TEST @ 50° TRUE

LIMONITE STAIN

SHARP

SHARP

GRADATIONAL

SHARP

360.5

3.5

(2.0)

60675

364

5.0

(2.0)

60676

369

2.0

60677

373

2.0

60678

APPENDIX II
REPORT OF ANALYSIS

APPENDIX II: GOLD ANALYSIS - McVICAR LAKE 1992

Hole #	sample	width (m)	AU (ppb)
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	59808	0.50	60.00
ML-92-64	59809	0.80	560.00
ML-92-64	59810	0.50	11900.00
ML-92-64	59811	0.90	5600.00
ML-92-64	59812	1.20	300.00
ML-92-64	59813	1.50	140.00
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-92-65	59831	0.90	16.00
ML-92-65	59832	0.80	6.00
ML-92-65	59833	0.80	3.00
ML-92-65	59834	1.40	11.00
ML-92-65	59835	1.20	8.00
ML-92-65	59836	1.10	3.00
ML-92-65	59837	0.90	0.50
ML-92-65	59838	1.10	3.00
ML-92-65	59839	1.20	0.50

Hole #	sample	width (m)	AU (ppb)
ML-92-65	59840	0.90	0.50
ML-92-65	59841	0.90	11.00
ML-92-65	59842	1.10	0.10
ML-92-65	59843	0.90	2.00
ML-92-65	59844	1.00	4.00
ML-92-65	59845	1.10	0.50
ML-92-65	59846	0.90	0.50
ML-92-65	59847	0.80	9.00
ML-92-65	59848	0.90	2.00
ML-92-65	59849	0.90	2.00
ML-92-65	59850	0.90	9.00
ML-92-66	59851	0.90	19.00
ML-92-66	59852	1.20	0.50
ML-92-66	59853	1.10	1400.00
ML-92-66	59854	1.10	12.00
ML-92-66	59855	1.40	120.00
ML-92-66	59856	0.90	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	59862	0.90	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	1.30	910.00
ML-92-66	59868	1.20	450.00
ML-92-66	59869	1.20	1100.00
ML-92-66	59870	0.60	120.00
ML-92-66	59871	1.10	63.00
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	59877	1.20	300.00
ML-92-67	59878	0.90	17.00
ML-92-67	59879	1.20	23.00

Hole #	sample	width (m)	AU (ppb)
ML-92-67	59880	0.90	61.00
ML-92-67	59881	0.90	91.00
ML-92-67	59882	0.60	420.00
ML-92-67	59883	0.90	670.00
ML-92-68	59884	0.90	4.00
ML-92-68	59885	1.20	48.00
ML-92-68	59886	0.50	690.00
ML-92-68	59887	0.80	35.00
ML-92-68	59888	1.20	9.00
ML-92-68	59889	0.90	2.00
ML-92-68	59890	1.20	5.00
ML-92-68	59891	0.90	5.00
ML-92-68	59892	1.50	9.00
ML-92-68	59893	1.10	6.00
ML-92-68	59894	1.10	21.00
ML-92-68	59895	1.10	7.00
ML-92-68	59896	0.90	41.00
ML-92-68	59897	1.10	17.00
ML-92-68	59898	1.10	48.00
ML-92-68	59899	0.90	21.00
ML-92-68	59900	1.10	19.00
ML-92-68	59901	1.10	85.00
ML-92-68	59902	0.90	29.00
ML-92-68	59903	1.10	16.00
ML-92-68	59904	1.10	12.00
ML-92-68	59905	0.90	31.00
ML-92-68	59906	1.10	270.00
ML-92-68	59907	0.90	5.00
ML-92-68	59908	1.20	29.00
ML-92-68	59909	1.20	75.00
ML-92-68	59910	0.90	46.00
ML-92-68	59911	1.20	25.00
ML-92-68	59912	0.60	66.00
ML-92-68	59913	0.60	68.00
ML-92-68	59914	0.60	8.00
ML-92-68	59915	0.90	60.00
ML-92-68	59916	1.10	17.00
ML-92-68	59917	0.90	2400.00
ML-92-68	59918	1.10	47.00
ML-92-68	59919	1.20	13.00
ML-92-68	59920	0.90	15.00

Hole #	sample	width (m)	AU (ppb)
ML-92-68	59921	0.60	31.00
ML-92-68	59922	0.60	71.00
ML-92-68	59923	1.10	65.00
ML-92-68	59924	0.80	17.00
ML-92-68	59925	1.10	15.00
ML-92-68	59926	1.10	650.00
ML-92-68	59927	0.90	110.00
ML-92-68	59928	0.90	16.00
ML-92-68	59929	1.20	39.00
ML-92-68	59930	0.90	14.00
ML-92-70	59931	1.10	12.00
ML-92-70	59932	1.10	5.00
ML-92-70	59933	0.90	4.00
ML-92-70	59934	0.90	13.00
ML-92-70	59935	0.90	3.00
ML-92-70	59936	0.90	2.00
ML-92-70	59937	1.10	42.00
ML-92-70	59938	1.10	28.00
ML-92-70	59939	0.90	280.00
ML-92-70	59940	1.10	190.00
ML-92-70	59941	0.90	20.00
ML-92-70	59942	0.90	2.00
ML-92-70	59943	0.90	27.00
ML-92-70	59944	0.90	0.50
ML-92-70	59945	0.90	1.00
ML-92-70	59946	1.20	4.00
ML-92-70	59947	1.10	6.00
ML-92-70	59948	1.10	19.00
ML-92-70	59949	0.90	400.00
ML-92-70	59950	0.80	830.00
ML-92-70	59951	0.70	75.00
ML-92-70	59952	0.70	10.00
ML-92-70	59953	0.90	76.00
ML-92-70	59954	1.20	2.00
ML-92-70	59955	0.90	0.50
ML-92-70	59956	1.00	0.50
ML-92-70	59957	1.20	8.00
ML-92-70	59958	1.10	2.00
ML-92-70	59959	1.20	3.00
ML-92-70	59960	0.90	18.00
ML-92-70	59961	1.00	7.00

Hole #	sample	width (m)	AU (ppb)
ML-92-71	59962	1.20	10.00
ML-92-71	59963	0.90	12.00
ML-92-71	59964	0.90	13.00
ML-92-71	59965	1.10	23.00
ML-92-71	59966	1.10	5.00
ML-92-71	59967	0.90	10.00
ML-92-71	59968	1.10	4.00
ML-92-71	59969	1.10	5.00
ML-92-71	59970	0.90	20.00
ML-92-71	59971	0.90	0.50
ML-92-71	59972	0.90	5.00
ML-92-71	59973	1.20	0.50
ML-92-71	59974	1.10	5.00
ML-92-71	59975	1.10	9.00
ML-92-71	59976	0.60	15.00
ML-92-71	59977	1.10	6.00
ML-92-72	59978	1.30	2.00
ML-92-72	59979	0.90	2.00
ML-92-72	59980	1.20	3.00
ML-92-72	59981	1.20	22.00
ML-92-72	59982	1.20	10.00
ML-92-72	59983	0.90	0.50
ML-92-72	59984	0.60	2.00
ML-92-72	59985	1.20	2.00
ML-92-72	59986	1.30	2300.00
ML-92-72	59987	1.20	53.00
ML-92-72	59988	1.20	21.00
ML-92-72	59989	0.90	31.00
ML-92-72	59990	0.80	5.00
ML-92-72	59991	0.80	6.00
ML-92-72	59992	1.40	2.00
ML-92-72	59993	1.40	720.00
ML-92-72	59994	1.50	8.00
ML-92-73	59995	0.90	1.00
ML-92-73	59996	1.10	0.50
ML-92-73	59997	1.00	0.50
ML-92-73	59998	1.10	66.00
ML-92-73	59999	1.20	140.00
ML-92-73	60000	1.20	9.00
ML-92-73	60600	0.80	6.00

Hole #	sample	width (m)	AU (ppb)
ML-92-73	60601	0.80	2.00
ML-92-73	60602	1.20	3.00
ML-92-73	60603	1.10	0.50
ML-92-73	60604	1.10	0.50
ML-92-74	60605	1.50	67.00
ML-92-74	60606	0.90	3.00
ML-92-74	60607	1.10	6.00
ML-92-74	60608	1.00	12.00
ML-92-74	60609	1.20	18.00
ML-92-74	60610	1.50	17.00
ML-92-74	60611	1.50	47.00
ML-92-74	60612	1.20	2300.00
ML-92-74	60613	1.80	460.00
ML-92-74	60614	1.50	560.00
ML-92-74	60615	1.50	96.00
ML-92-75	60616	1.10	7.00
ML-92-75	60617	0.90	3.00
ML-92-75	60618	1.10	2.00
ML-92-75	60619	1.10	3.00
ML-92-75	60620	1.20	3.00
ML-92-75	60621	0.80	1.00
ML-92-75	60622	1.20	0.50
ML-92-75	60623	1.20	2.00
ML-92-75	60624	1.20	0.50
ML-92-75	60625	1.10	0.50
ML-92-75	60626	1.10	0.50
ML-92-75	60627	1.10	3.00
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	0.90	400.00
ML-92-76	60636	1.10	240.00
ML-92-76	60637	1.20	360.00
ML-92-76	60638	1.20	330.00
ML-92-76	60639	1.20	210.00

Hole #	sample	width (m)	AU (ppb)
ML-92-76	60640	0.80	230.00
ML-92-76	60641	1.20	1100.00
ML-92-76	60642	1.20	4300.00
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-92-77	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	60653	1.20	3.00
ML-92-77	60654	1.20	2.00
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-92-78	60661	2.70	6.00
ML-92-78	60662	3.00	7.00
ML-92-78	60663	1.80	16.00
ML-92-78	60664	1.20	11.00
ML-92-78	60665	0.30	1200.00
ML-92-78	60666	1.30	10.00
ML-92-78	60667	1.50	13.00
ML-92-78	60668	1.50	140.00
ML-92-78	60669	0.60	36.00
ML-92-78	60670	1.20	1300.00
ML-92-78	60671	2.60	120.00
ML-92-78	60672	3.00	29.00
ML-92-78	60673	3.00	330.00
ML-92-78	60674	0.60	130.00
ML-92-78	60675	1.10	580.00
ML-92-78	60676	1.50	420.00
ML-92-78	60677	0.60	39.00
ML-92-78	60678	0.60	9.00

APPENDIX III

LITHOLOGICAL DESCRIPTIONS

from

"REPORT ON DIAMOND DRILLING WORK"
McVICAR LAKE PROPERTY

by

R.N. THOMAS

FEBRUARY, 1988

(edited by R.G. Bonner, February, 1991)

2.2.2 Volcanic Rocks

Basalt and porphyritic basalt underlie the northern part of the grid area and comprise the volcanic rocks observed in the vicinity of the AZ. Basalt is typically dark to light grey - green in colour. It is fine to medium grained, aphyric to feldspar phyric, massive to weakly foliated. There is usually some degree of chlorite, carbonate and/or silica alteration even in areas well removed from the intense alteration and mineralization which characterizes the AZ.

DDH ML.21 situated in the northern part of the new grid (NG) area intersected feldspar porphyry (basalt porphyry) comprising 20% - 30% feldspar phenocrysts (1-2mm; up to 5mm) in a fine grained mafic rich matrix.

All volcanic rocks contain trace to 1% sulphides as fine grained disseminations and fracture coatings, of pyrite (py) although pyrrotite (po) and trace chalcopyrite (cp) are common. Magnetite as finely disseminate crystals is also a common constituent and is present in concentrations ranging up to 5%.

2.2.3 Sedimentary Rocks

Very few intervals of sedimentary rocks were observed in drill holes. DDH ML.21 intersected a short interval of black chert comprising a weakly magnetic, finely laminated rock within fault gouge. Minor intersections of (siliceous) volcanic mudstone comprising a very fine grained, dark green grey, foliated and fractured rock between an interval of mylonite and brecciated gabbro. In this regard the latter rock's sedimentary character is questionable, however, intervals of banded iron formation are found as xenoliths within gabbro well removed from the margins of the gabbro intrusive.

2.2.4 Early Intrusive Rocks

The gabbro intrusive underlies the southern part of the grid area. It is mineralogically and texturally variable and ranges from a gabbro to anorthosite in composition. There is much evidence of extensive deuteric alteration with some intervals being completely replaced by silica. Massive magmatic sulphides (po >py

>>cp) are common near the contact with the volcanic and the contact would appear to be a broad, east trending diffuse zone (100's metres) of intrusion of gabbro into volcanics and incorporation of dekametre to decimetre (dm) scale volcanic xenoliths within gabbro.

Gabbro sensu lato is generally melanocratic ranging from light grey green to dark green to black in colour. It is usually medium grained although both fine and coarse grained varieties are not uncommon. It is generally massive to weakly foliated. Primary magmatic layering is rarely observed where metre (m)-scale feldspar rich (60%) alternate with mafic rich (90%) intervals. Sulphide content ranges from minor (trace - 1%) disseminated py >po to magmatic sulphide segregations as disseminations, veinlets and massive accumulations comprising short (dm scale) intervals of up to 50% sulphides (po >py >>cp). Magnetite content ranges from nil to 5%, to over 50% in some sections. The latter concentration levels usually comprise centimetre (cm) to dm scale bands of magnetite over relatively short (m scale) intervals. They are considered to be a primary magmatic feature.

Anorthositic gabbro is a spectacular looking rock comprising 70%-90% white coarse grained (up to 1 cm) spheroidal feldspar phenocrysts in a fine grained mafic matrix. The feldspar phenocrysts are usually completely replaced by silica and the rock is, therefore, almost completely white in colour and very hard. This type of alteration is considered to be deuteric and not related to silica alteration within or associated with the AZ.

Other observed alteration phenomena observed in gabbro away from the AZ include widespread weak millimetre (mm) to cm scale quartz - carbonate (chlorite) veining, patchy silica replacement associated with quartz veining and less common m-scale replacement zones. The latter are again considered to be of deuteric origin, whereas, the former are probably within the AZ's broad alteration envelope.

2.2.5 Tectonites

The altered zone (AZ) is a northwest trending zone of intense shearing, alteration and mineralization which constituted the target of interest throughout the 1986 and 1987 drill programs. Enveloping the AZ are intervals of brecciation within the various lithologies which are transected by the two structures. The breccia

is clearly structural in origin and is the least deformed end member of this group of rocks. It comprises cm scale rock fragments of the host lithology within a carbonate rich matrix. In general the breccia is fragment supported and grades from intensely foliated and crenulated rock which has been subsequently fragmented and rotated adjacent to the AZ to weakly veined rock at the outer margins of the breccia envelope. Although the outer contact of brecciated rock with non-brecciated rock is reasonably sharp there is usually some minor shearing or brecciation near or away from the margins of the breccia envelope.

The Altered Zone which is the principal zone of interest is an extremely complex zone of deformation and intense alteration which is comprised of a number of different lithological elements. On drill sections, it is plotted as one unit, however, reference to the appropriate drill log will show that it is comprised of a number of discrete lithological elements. In 1986, four lithological elements were recognized. They comprise zones of intensely sheared mafic volcanic, abundant green mica, intermediate intrusive and massive to semi-massive quartz. Additional drilling in 1987 south of the gabbro-volcanic contact intersected all four zones (or their gabbroic equivalents) as well as several intervals of quartz-carbonate-sericite schist. The five lithological elements are discussed below.

(i) Sheared (and/or brecciated) basalt/gabbro:

These rocks are characterized by a well developed (intense) foliation and in many instances a recognizable fragmental texture. In some instances fragments may be foliated, crenulated and individually rotated with respect to the principal foliation. The mineralogy of the mm-cm scale fragments ranges from recognizable fragments to protolith to intensely altered and deformed rock. Fragments may comprise up to 30% of the rock in a fine grained quartz-carbonate-chlorite-sericite matrix. Occasional wisps and rare dm scale intervals of apple green mica are also observed. Quartz veins as foliation parallel and foliation oblique mm-cm scale veinlets are common. Occasional cm scale quartz boudins and dm scale quartz veins are observed in some intervals. These rocks usually contain some pyrite, overall concentrations are probably in the order of 1-2% with the bulk of the sulphides associated with quartz and green mica.

(ii) Quartz-Carbonate-Sericite Schist:

This lithology grades into intervals of apple green mica and may in itself contain appreciable amounts of apple green mica. It is considered to be a more progressively altered and deformed variant type of the sheared gabbro or volcanic described above. It is intensely foliated comprising 40-60% mm scale lenticules of quartz-carbonate in a matrix of foliated sericite (+/- green mica). Quartz boudins (dm scale) and foliation parallel cm scale quartz veins and boudins are common. This unit can contain up to 8% finely disseminated pyrite.

(iii) Apple Green Mica Schist:

This is considered to be the end member in the progressive deformation and alteration of the host lithology. In the volcanics the green mica are an intense apple green colour whereas in gabbro intervals of green mica can be more of an emerald green colour. It is largely comprised of green mica although varying amounts of white to yellowish micas, cm scale quartz veins and boudins and weak pervasive carbonate alteration and rare patches of Fe-carbonate alteration give it a variegated appearance. Sulphide content in the interval is typically 3-5% finely disseminate pyrite. Minor disseminated magnetite is noted in DDH ML.34. This rock type is confined to the interior regions of the AZ and is usually in contact with intervals of massive quartz.

(iv) Quartz:

The bulk of the quartz is confined to the central or near-central regions of the AZ. Intervals of quartz can range up to several metres in thickness. Contacts are for the most part foliation parallel, particularly with dm-m scale intervals. Outcrop evidence and small scale structures in drill core indicate that the bulk of the quartz exists as cm-m scale boudins with one of the extension directions in the plane of the AZ parallel or nearly so to its strike.

Quartz can contain up to 90% lithic fragments. These comprise cm-dm scale fragments of the various other tectonites (excluding intermediate intrusive) within the AZ. In general the composition of lithic fragments in any one interval is

homogenous. Pyrite mineralization which can range up to 3% is largely as fine grained disseminations within the lithic fragments, particularly fragments of apple green mica schist and sericite carbonate schist, and at fragment margins. Pyrite also occurs within the quartz at contact margins and within the interior as sparse disseminations.

(v) (Altered) Intermediate Intrusive:

This lithology is the most enigmatic of the lithological elements which comprise the AZ. During the 1986 drill program this rock was initially identified as bleached or metasomatized volcanic. As drilling progressed through 1987, it became apparent that the rock has in some instances recognizable intrusive contacts with the other rock types in the AZ.

The rock is aphanitic to fine grained, light tan to buff in colour, massive to weakly foliated with 2-5% fine grained oriented pyrite. In DDH ML.27 it contains inclusions of foliated gabbro. It is usually weakly altered (sericite, carbonate, rare Fe-carbonate) with weak quartz veining (cm scale) associated with weak pervasive carbonate alteration.

2.2.6 Late Intrusive Rocks

A variety of intermediate to felsic intrusive rocks are observed in a number of holes. They are for the most part massive or only weakly foliated. They display sharp intrusive contacts and in some instances aphanitic chill margins.

Tonalite is perhaps the most common of the late intrusive rocks. It is invariably leucocratic and is usually a light yellow grey colour. It is massive, fine grained rocks with a hypidiomorphic-granular texture. It may in some instances be weakly foliated. Quartz content ranges up to 30%, mafics comprise up to 15% amphiboles which are in some instances altered to chlorite. Other alteration is limited to weak fracture controlled carbonate alteration. Pyrite is usually present in amounts of trace to 1% and less commonly 2-3%.

Intermediate intrusive rocks outside of the AZ are in general different than the intermediate intrusive observed in the altered

zone. The inadvertent use of the same field term for two different rock types is unfortunate, however, the term is appropriate and the rock is not that common. These rocks, which occur over intervals of 1-2m, are dark green-grey in colour, massive, aphanitic to fine grained and weakly porphyritic. Quartz-carbonate alteration is usually weak and fracture controlled although replacement of feldspar phenocrysts by carbonate is common. Trace pyrite mineralization is confined to fracture surfaces.

Rare intervals of intermediate-felsic intrusive and one interval of felsite dyke are probably variant types of the intermediate intrusive just described. They are dark toffee to dark grey in colour, aphanitic to very fine grained and usually show some degree of conchoidal fracture. Weak fracture controlled carbonate alteration and minor (up to 1%) pyrite on fracture surfaces is common.

APPENDIX IV

THIN SECTION DESCRIPTIONS

SAMPLE # ML-92-68-94

CLASSIFICATION Aplitic intrusive (Dyke?)

SAMPLE DESCRIPTION (Stereo Microscope)

Colour white to light grey. Texture very fine grained, massive, with small, white crystallites. Composition felsic, siliceous. A few, thin (< 1mm), dark-greenish fractures. Trace pyrite.

PETROGRAPHIC DESCRIPTION

Mineralogy

Major: Feldspar (albite?) 55-60%, quartz 30-35%.

Minor: Sericite 4-6%

Accessory: Carbonate 2-3%, chlorite 1-2%.

TEXTURE

General: Massive, homogeneous, igneous, slightly porphyritic. Slightly fractured and veined.

Detailed Description:

Grain size: Matrix 0.1-0.5 mm
phenocrysts 0.4-0.8 mm

Groundmass: The groundmass is massive and has an igneous character. It is made up of anhedral, randomly oriented, interlocking quartz and feldspar grains. Feldspar is mostly chequer-board-twinned albite which commonly appears interstitial to quartz and in places seems to be replaced by quartz. Some of the feldspar are plagioclase and show a well developed, lathy shape and show plag. twinning. Carbonate and sericite are disseminated throughout.

Phenocrysts: Rare. Plagioclase phenocrysts, 0.5-2 mm in size, have a euhedral to subhedral shape and locally enclose minor quartz and anhedral feldspar (albite) grains and are partly being replaced by carbonate and sericite.

STRUCTURE Massive, no foliation.

ALTERATION Weak, almost fresh. There is only a trace (1-2%) of disseminated carbonate and seicite within the unveined portion of the rock.

VEINING Moderate. There is a stockwork of fine (0.3-1.5 mm), randomly oriented veinlets filled with mostly sericite and microcrystalline, cherty quartz mosaic, only locally with carbonate patches.

COMMENTS A massive, leucocratic, fine grained, most likely igneous rock of aplitic composition. Sericite-cherty veining indicates an active, post-intrusive history. The texture is interpreted as igneous, supported by a few well developed, boxy plagioclase phenocrysts.

SAMPLE # MI-92-68-519

CLASSIFICATION Sericitized, fractured, highly siliceous rock:
Rhyolite or metasomatite?

SAMPLE DESCRIPTION (Stereo Microscope)

Colour light greenish grey. Texture fine grained massive, homogeneous, granular, possibly igneous. Composition felsic, siliceous, only leucocratic minerals (feldspar, quartz) are observed but no Femags. Randomly oriented, granular and in part lathy, clear minerals (feldspar?) in minor white matrix (carbonate, sericite?). Rare, scattered, small pyrite grains.

PETROGRAPHIC DESCRIPTION

Mineralogy

Major: Quartz 50%, sercrite 40-50%
Minor: Carbonate 5-7%
Accessory: Leucoxene 0.5%, opaque.

TEXTURE

General: Massive to weakly foliated, granular, probably intrusive texture. Closely packed round to elliptical quartz grains which are criss-crossed by abundant sericite-filled fractures.

Detailed Description:

Grain size: 0.5 - 2 mm.

The rock consists essentially of closely packed quartz grains, i.e. has a quartzitic composition. 40-50% sericite occurs in an intense fracture system.

Quartz Grains: Quartz grains are equigranular and closely packed. There appears to be no original matrix. the morphology of quartz grains is roundish to elliptical, in part almost lathy. Elongated grains are aligned. The size of areas in which small quartz fragments are in optical continuity ranges from 0.5-2 mm but individual quartz fragments, surrounded by sericite, are only 0.1-0.2 mm in size. Quartz is not strained.

The fracture pattern within quartz is very intense but at random. It is not produced by shearing but appears to be separate for each optically continuous quartz domain. The fracture pattern in these domains seems to be crudely radial with a common, vaguely defined, sericite-filled core.

Sericite: Sericite fills innumerable fractures in quartz. The width of fractures is 0.01-0.2, intervals between fractures are 0.05-0.5 mm, mostly 0.1-0.2 mm.

Carbonate occurs as fairly continuous patches, probably veins It is intergrown with sericite and quartz. Opaques and leucoxene occur as rare scattered grains in sericite matrix.

STRUCTURE Almost massive, only a very weak foliation.

ALTERATION Moderate. Approximately 1/2 of the rock is sericite which fills abundant microfractures in quartz (see above).

VEINING None.

COMMENTS

A siliceous, partly sericitized rock with an unusual, little understood texture. The genesis of this rock is unknown. It is tentatively interpreted as a quartz vein or a highly siliceous volcanic or a quartz-metasomatite. By a process of elimination it is stated: The texture is not clearly igneous, not sedimentary, not that of a typical quartz vein. The monomineralic quartzose composition of the pre-alteration rock, its fairly coarse grain size, absence of quench features are untypical for a rhyolitic lava. The crudely radial fracture pattern of optically continuous quartz domains suggests, however, that some cooling mechanism was involved. Strong quartz metasomatism is also a possibility considered. The high abundance of sericite in fractures suggests that a post-cooling or post-metasomatism hydrothermal activity with sericite deposition was in effect.

In conclusion: A highly siliceous rock with a little understood texture and fracture pattern. The high sericite abundance in fractures suggests hydrothermal overprint.

SAMPLE # ML-92-75-277

CLASSIFICATION Fractured, carbonatized, chloritized felsic
intrusive (quartz-monzonite?).

SAMPLE DESCRIPTION (Stereo Microscope)

Colour light green-grey, with light grey, whitish, vague patches 5 mm in size. Texture massive, fine to medium grained, granular, possibly igneous, fractured. 1 mm size, stubby, closely packed feldspar grains with minor, greenish, chloritic and carbonate (?) matrix. Chlorite is concentrated in thin randomly oriented fractures, at 1 cm intervals. A few scattered, 1-4 mm size, medium grey, silicate minerals, possibly sphene.

PETROGRAPHIC DESCRIPTION

Mineralogy

Major: Plagioclase 60-65%, carbonate 20-25%.
Minor: Quartz 5-10%, chlorite 3-5%, sericite 2-3%
Accessory: Leucoxene 1 %

TEXTURE

General: Massive, medium grained, igneous, intrusive texture.
Strongly fractured, fractures filled with carbonate and minor chlorite.

Detailed Description:

Grain size: 0.3 - 1.5 mm

The rock consists of stubby plagioclase and interstitial quartz. Abundant fractures are filled with carbonate, minor chlorite and sericite.

Plagioclase: Fresh plagioclase make up 2/3 of the rock. Their shape is boxy, lathy, subhedral, their orientation random. Parallel albite twinning is well developed.

Quartz: Quartz occurs interstitial to plagioclase and in places is replacing plagioclase. The distribution of quartz is patchy, i.e. areas with much interstitial quartz alternate with quartz-free areas.

Replacement textures are well developed. In places strongly resorbed plagioclase relicts are free-floating within quartz.

Fractures: Carbonate- and chlorite fractures are abundant. They form a random network without a preferred orientation and give the impression of crushing. Their density varies greatly from 0.1 - 3 mm. The width of fractures is from 0.03 - 0.5 mm. Carbonate is the most common material in fractures, chlorite and sericite are minor constituents. Carbonate and chlorite generally occur together. Some chlorite-filled fractures (carbonate-free) cut through most of the rock and appear to be younger than the irregular carbonate fractures.

STRUCTURE Strong fracturing (see above) is the only structural feature.

ALTERATION Weak. Plagioclase is almost completely fresh, only traces of sericite are seen to replace plagioclase. Replacement of plagioclase by interstitial 'flood-type' quartz is common but is thought to be a late magmatic stage.

VEINING Abundant carbonate-chlorite-filled fractures (see above).

COMMENTS

A felsic, quartz-monzonitic intrusive which experienced a strong fracturation (dilation?) and subsequent strong carbonatization indicating a considerable hydrothermal activity



52011SW0006 OM92-008 MCVICAR LAKE

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).

HOLE NO. ML-1264

PROJECT: 1446

PAGE NO: 1 OF 8

CASING COLLAR ELEV.: 117M

GROUND ELEV.: 117M

DATE STARTED: FEB 5, 1992

REF. TO CLAIM CORNER: PA 1180579

COORDINATES: 304905 N. 87400 E.

DATE FINISHED: FEB 9, 1992

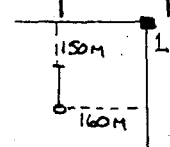
SCALE: 1" = 10'

INCLINATION: -52

BEARING: 000°

TOTAL DEPTH: 439' (133.8M)

LOGGED BY: R.G. BONNER



SECTION	ALTERATION				COMMENTS: TARGET IS DIP EXTENSION OF SHONIA #1 VEIN. VEIN SYSTEM INTERSECTED FROM 254' TO 297'. DOWN DIP IS SULPHIDE POOR.	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SERICITE	APPLE GREEN MICA	FRACTURING	MINERAL GEOLOGY									
0					DESCRIPTIVE GEOLOGY								
0.0' - 35.0'					OVERBURDEN								
10					CASING REMAINS SAND AND MUD ONLY								
20													
30													
35.0' - 44.5'					SERICITE ALTERED SCHIST								
40					QTZ-PY VEIN S ₁ AT 40° TO CA			39	100	BOBGM	35.5	3.0'	59801
											38.5	3.0'	59802
											41.5	3.0'	59803
					QTZ-PY VEINLET GRADATIONAL				100		44.5	3.0'	59804
								0.5			47.5	3.0'	59805
					INTENSE SHEAR SHARP			49			49.0	1.5'	59806
50											52.0	3.0'	59807
								0.1	100		56.0	4.0'	59808
											59.0	2.0'	59809

HOLE NO. ML-92-64

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. BONNIER

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 M	FRACTURING										
60					SHARP	<p><u>44.5' - 49.0' MAFIC DYKE</u> PORPHYRITIC BASALT</p> <p>DARK GREEN, MASSIVE TO WELL FOLIATED, APHANITIC WITH UP TO 7% WHITE PHENOCRYSTS (?), PHENO'S 2-3 MM, ELONGATE TO SUB IDIOMORPHIC, WITH CHLORITIC SHEARS, DOLOMITE REPLACEMENT (?)</p>	0.1	69	100	BODG	62.8	3.0	8426	
70					INTRUSIVE Xenolith	<p>SHARP</p> <p>PATCHY MAGNETITE, TRACE DISSEMINATED SULPHIDE</p> <p>SHEARED LOWER CONTACT WITH APPLE GREEN MICA, SERICITE, QTZ UBIN AND SULPHIDE</p>	0.1	79	100		78.0	4.2	8427	
80						<p><u>49.0' - 62.8' LATE INTRUSIVE (TONALITE)</u></p> <p>GREENISH GREY TO WHITE, MASSIVE, FINE GRAINED, QUARTZ (80-85% MODAL), SERICITE-CHLORITE (>10%)</p> <p>MINOR MAGNETITE, TRACE PYRITE BLEBS, OCCASIONAL FOLIATION, CHLORITIC FRACTURES, PATCHY HEMATITE</p>	0.1	89	100		84.0	5.0	8428	
90						<p>SHEARED MAFIC DYKE CUT AT 10° TO CA</p> <p><u>62.8' - 74.8' SHEARED GABBRO</u> SHEARED MAFIC DYKE</p> <p>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.</p> <p>TRACE DISSEMINATED SULPHIDE.</p>	0.1	99	100		79.0	5.0	8431	
100						<p><u>74.8' - 247.5 LATE INTRUSIVE (TONALITE)</u></p> <p>AS IN 49-62.8</p>	0.1	109	100		101.8	1.8	8432	
110							0.1	119	100		104.0	3.8'	8433	
											107.2	5.0'	8434	
											114.0	5.0'	8435	
											119.0	5.0'	8436	

HOLE NO. ML-92-64

PROJECT: 1446

PAGE NO: 4 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: -50°

BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: R. G. BANNER

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
	CALCITIC	SERPENTINE	CHL												
180							74.8' - 247.5' LATE INTRUSIVE (TONALITE)								
							CONT...		0.1		100	BDBGP	8446	177	3.0'
							QZ VEINLET						8447	182.3	2.5'
190							QZ VEIN 071/89			187			8448	187.4	3.1'
							PATCHY SILICIFICATION						8449	190	2.6'
							MOTTLED SILICIOUS SPECKLED (CHL) TONALITE		0.1		100		8450	193.5	3.5'
200							CHL SHEAR						8451	196.5	3.0'
							QZ VEINS - CHLORITIC WITH FE CARB BETWEEN VEINS			199			8452	199.7	3.2'
							SPECKLED CHL BEGINS TO BE REPLACED BY PYRITE		0.1		100		203	3.3'	8453
210							CHALCOPYRITE BLEB FE CARB - PY VEIN						206	3.0'	8454
							HAND SAMPLE - CHL			209			209	3.0'	8455
							HAND SAMPLE - PY		0.1 to 0.5		100		212.5	2.5'	8456
220							-QZ						215.5	3.0'	8457
										219			220'	4.5'	8458
230							RUBBLE (SRAM) MAFIC DYKE - SHEAR LOW ANGLE TO CA		0.1		90?		224	4'	8459
													227	3'	8460
										229					NO SAMPLES
											80				MAFIC RUBBLE (FAULT?)
													236.5'		
													237.0	2.5'	59814
										239					

HOLE NO. ML-72-64

PROJECT: 1446

PAGE NO: 5 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			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITIC	SERICITIC	APPLE GREEN MICA												
240							74.8' - 247.5' LATE INTRUSIVE (TONALITE)								
							CONT...		0.5	100			240.8	1.8	59813
						MASSIVE PYRITE BUBBS TO 3-5 CM WITH QZ VEINLETS							244.5	3.3'	59814
						SHARP							247.5	3.0'	59817
250						INTENSELY SHEARED GABBRO MAFIC DYKE	247.5' - 254.5' SHEARED GABBRO			247			251.0	3.5'	59818
						SHARP	GREEN, FINE GRAINED, WELL FOLIATED, SECTIONS ARE INTENSELY SHEARED WITH WEAK TO MODERATE APPLE GREEN MICA, TRACE PYRITE, PROBABLY A XENOLITH		0.1	100			259.0	3.0'	59819
													257.5	3.5'	59820
260						VEIN AREA IS CHLORITE DOMINATE				257			261.6	4.1'	59821
							254.5' - 297.0' QUARTZ VEINED TONALITE		0.1	100			265.5	3.9'	59822
							AS IN 74.8-247.5 WITH CONSIDERABLY QUARTZ AS VEINS (STOCKWORK), QZ HAS TRACE SULPHIDE, TONALITE IS SHEARED AND FRACTURED (WEAK)			269			269.0	3.5'	59823
270						SHONIA #1 VEIN (BY PROJECTION)	CHLORITIC FRACTURES WITH PYRITE, INTENSELY SHEARED PORTIONS MAY BE GABBRO XENOLITHS, WEAK AGM DEVELOPMENT IN SHEARED PORTIONS		0.1	100			273.2	4.2'	59824
							TONALITE IS SERICITIC BUT DARK BLUEISH GREEN CHLORITE DOMINATE						277.0	3.8'	59825
280						FR. CARD				277			282.0	5.0'	59826
						INTENSELY SHEARED APPLE GREEN (?) MAFIC DYKE GREEN S ₁ AT 10° TO CA			0.1	100			284.5	2.5'	59827
						BROKEN									
290							297.0' - 300.1' QUARTZ VEIN-FAULT GOUGE			287					
							VERY SHEARED MAFIC (?) XENOLITHS SWIMMING IN BULL QUARTZ, MAFIC IS SERICITE-CHLORITE MIXTURE, TRACE PYRITE		0.1	90?					
						OBSCURE - RUBBLE							297		
										299				3.1'	59828

HOLE NO. ML-92-64

PROJECT: 1446

PAGE NO: 6 OF 8

CASING COLLAR ELEV.: 1171

GROUND ELEV.: 1171

DATE STARTED: FEB 5, 1992

REF. TO CLAIM CORNER:

COORDINATES:

N. 8700 E.

DATE FINISHED: FEB 9, 1992

SCALE: 1"=10'

INCLINATION: -52°

BEARING: 000°

TOTAL DEPTH: 439'

LOGGED BY: ZG BONNER

SECTION	ALTERATION					COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y	SAMP. INT.	ESTI-MATED
	SILICIFICATION	SERICITE	APPLE GREEN MICA	FRACTURING	MINERAL VEIN										
380						BROKEN CORE									
						Si AT 20° TO CA									
310									309	100		309		4.5'	59829
									0.1	100		313.5'		3.0'	59830
						SHARP						317.5'		3.5'	8461
320						MAFIC DYKE						321		4'	8462
						1% PY			0.1 to 0.5	100		325		4'	8463
												329		4'	8464
330												333		4'	8465
												337		4'	8466
340												341		4'	8467
									0.1	100		345		4'	8468
350												349			
									0.1	100					
												359			

DESCRIPTIVE GEOLOGY

300.1' - 317.5' SHEARED MAFIC ROCK (GABBRO?)

DARK GREEN, APHANITIC, SHEARED, FOLIATION AT LOW ANGLE TO CA, CHLORITIC, WITH 20% WHITE ELONGATE PHENO'S → PLAGIOCLASE? QUARTZ VEINING WITH SERICITE RIBBONS, MINOR APPLE GREEN MICA, TRACE PYRITE

317.5' - 359.3' LATE INTRUSIVE (TONALITE)

AS IN 74.8-247.5
PATCHY SILICIFICATION

SPECILED TONALITE UP TO 10-15% CHLORITE, WHITE MILKY SILICIOUS ROCK WITH PATCHY YELLOWISH TO ORANGE FE CARB - QZ FRACTURE FILLING, CHLORITIC FRACTURES

DIP TEST
44° TRUE

SERICITE
PYRITE

CHL

HOLE NO. ML-72-64

PROJECT: 1446

PAGE NO: 7 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. BANNER

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT.	ESTIMATED
360							<p>369.3' - 439.0' GABBRO</p> <p>DARK GREEN, MODERATELY FOLIATED TO SHEARED PATCHY MAGNETITE - FINE DISSEMINATIONS, QTZ-CARB VEINLETS, PLAGIOCLASE PHYRIC SHEAR AT OR NEAR CORE AXIS, DDH RUNS THROUGH NW TRENDING FAULT, TRACE PYRITE CHLORITIC</p>		0.1	369	100	BDBGM			
370							S ₁ AT 30° TO CA		0.1	379	100				
380									0.1	389	100				
390							S ₁ AT 20° TO CA		0.1	399	100				
400							NW (?) FAULT INTENSE SHEARING		0.1	409	100				
410							S ₁ AT CORE AXIS	← CORE BROKEN COULD NOT USE CORE TECH	0.1	419	100				

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+005 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				MINERAL GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	GRS	SERICITE	CARBONATE	FRACTURING										
0						0.0' - 10.0' OVERBURDEN CASING REMAINS					80			
10						10.0' - 48.0' TONALITE LIGHT YELLOW TO PINKISH, FINE GRAINED, QUARTZ (80%) SERICITE (15%), MINOR CHLORITE, MAGNETITE, PYRITE	0.5	80		80	12.0'	3.0'	59851	
20						15.0' - 17.6' 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	100	19		15.0'	2.6'	8460	
30						17.6' - 20.5' 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	100	29		17.6'	2.9'	8470	
40						20.5' - 48.0' RELIC 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	100	39		20.5'	2.9'	8470	
50						48.0' - 52.0' TONALITE AS IN 10.0 - 48.0, MAFIC DYKES ARE APHANITIC, DARK GREEN, CHLORITIC, WITH WEAK CARBONATE, NO SULPHIDE	0.1	100	49		48.0'	3.0'	8471	
						52.0' - 57.0' TONALITE AS IN 10.0 - 48.0, MAFIC DYKES ARE APHANITIC, DARK GREEN, CHLORITIC, WITH WEAK CARBONATE, NO SULPHIDE	0.1	100	59		52.0'	4.0'	59852	
											57.0'	3.0'	8472	
											59.0'	3.0'	8473	

HOLE NO. M4-92-66

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. BONNIER

SECTION	ALTERATION				COMMENTS:	AVE CORE RECY / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTIMATED
	SERICITE	CARBONATE	FRACTURING	MINERAL									
60					<p>DESCRIPTIVE GEOLOGY</p> <p>52.0' - 118.7' TONALITE</p> <p>CONT ...</p>								
					<p>FINE CHL-PY FRACTURES</p>		24			8000	63	3'	8474
							0.1	100			67	4'	8475
70					<p>← SERICITE</p>			69			71	4'	8476
							0.1	100			75	4'	8477
								79			79	4'	8478
80					<p>? BULL QTZ VEINLET</p>		0.1	100			83	4'	8479
					<p>INCREASING CHLORITIC FRACTURE NETWORK (STOCKWORK)</p>						87	4'	8480
90							0.1	100			91	4'	8481
							0.1	100			95	4'	8482
100								99			99	4'	8483
							0.1	100					
110					<p>CHL-CARB SHEAR 40° TO CA</p> <p>SHARP</p>			109					
					<p>118.7' - 124.4' SHEARED GABBRO</p> <p>DARK GREEN, FINE GRAINED, CHLORITE, VERY FINE SIMM WHITISH PHENO'S REACT TO HCL, SHEARING INTENSITY INCREASES THROUGH INTERVAL TO BRECCIA SHARP UPPER, GRADATIONAL LOWER CONTACT, FINE QTR VEINS OFFSET BY CHLORITIC FRACT, NO SULPHIDE</p>		0.1	100					
								119					

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 X 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		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 <u>118.7' - 124.4' SHEARED GABBRO</u> CONT...		0.1	100		8D84			
130						<u>124.4' - 139.1' TONALITE</u> AS IN 10.0-48.0		0.1	100					
140					CONTACT 062/88 -TONALITE XENOLITH	<u>139.1' - 146.5' SHEARED GABBRO</u> AS IN 118.7-124.4, SHEARING MORE PRONOUNCED HINT OF CARBONATE		0.1	100			146	6.8	8484
150					CONTACT 045/84 CORE TECH 41° TRUE	<u>146.5' - 160.5' TONALITE</u> AS IN 10.0-48.0		0.1	100			152.8	2.7	8486
160					CHALCOPYRITE 097/85 093/60 094/67 110/80 QTE - PY VEIN ORIENTATIONS	<u>160.5' - 167.6' SHEARED GABBRO (?)</u> MAY BE SHEARED TONALITE HOWEVER QUARTZ MATRIX APPEARS LOWER, SERICITE RICH, SMALL (<10um) QTE-PY VEINS WITH UP TO 10% PY -TRACE CHALCO PYRITE ASSOCIATED WITH CHLORITIC FRACTURES IN THE VEIN		0.5	100			159	5.0	8395
170					QTE VEIN 027/50	<u>167.6' - 251.0' TONALITE</u> AS IN 10-48, CHLORITIC FRACTURES COMMON		0.5	100			164	3.5	59853
												167.6	3.6	59854
												169	4.7	59855
												172.3	4.0	8396
												176.3	4.0	8397
												179		

HOLE NO. ML-92-66

PROJECT: 1446

PAGE NO: 4 OF 6

CASING COLLAR ELEV.: 117M

GROUND ELEV.: 117M

DATE STARTED: FEB 13, 1992

REF. TO CLAIM CORNER:

COORDINATES: 317005 N. 186°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 RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT.	ESTI-MATED
	SILICIFICATION	CARBONATE	CHLORITE	FRACTURING									
180					CHL FRACTURE 300/85 - SUP LINEA. 300/50						180.3	2.7	8398
					167.6' - 251.0' TONALITE						183.0	3.0'	59856
					AS IN 10-48, PATCHY SILICIFICATION WITH FEW QTZ-PYRITE VEINS, FEW OBSERVATIONS OF VERY FINE SILICA VEINLETS CUTTING CHLORITIC FRACTURES, DISSEMINATED AND FRACTURE PYRITE ACCOMPANYING SILICIFICATION	0.5	100				186.0	3.0'	59857
190											189.0	4.5'	59858
					QTZ-PY URIN 006/46						197.5	3.5'	59859
					CHLORITIC						197.0	3.6'	59860
200					PY FRAC.						200.6	3.4'	59861
					K-SPAR 10%						204.0		
210					pyritic fractures						209		
					SPECKLED TONALITE (CHL + SIL) WEAK CARB FRACTURE SYSTEM	0.1	100				211.5	3.5'	8487
											215	4.0'	8488
220											219	3.0'	8489
											222	3.5'	8490
											225.5	3.0'	59862
					CARB FRACTURE 130/75 - ORIENT GROWTH 205/75 (UNEARTH)						228.5	1.6'	59863
230					QTZ-PY VEIN 240/22 - TRUE THICKNESS ~ 10 CM						230.1	1.2'	59864
					QTZ VEIN 145/52						231.3	4.0'	59865
											235.3	3.7'	59866
											239		

HOLE NO. ML-92-66

PROJECT: 1446

PAGE NO: 6 OF 6

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

DATE STARTED: FEB 13, 1992

REF. TO CLAIM CORNER:

COORDINATES: 374005 N. 186+50 E.

DATE FINISHED: FEB 15, 1992

SCALE: 1" = 10'

INCLINATION: -47° BEARING: 000°

TOTAL DEPTH: 339'

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	SERICITIC												
300						FEW CHL-PY FILLINGS (299.7')		P4			BDD-H	300.1		
						266.1-339.0' TONALITE		0.5		100		303.6	3.5'	57871
						K-SPAR ZONE			309			310'		
310						CONT...								
						311.5 THIN SECTION ← PROGRESSIVE ALTERATION		0.1		100		314.2'	4.2'	8492
									319			317.9'	3.7'	8493
320						PY FRACTURES						320.6	2.7'	8494
						QZ-PY STRINGER (VEINLET)		4.1		100		322.6	2.0'	8495
						K-SPAR ZONE						325.6	3.0'	8496
330									329			329	3.4'	8497
						QZ-PY VEIN		0.1		100		334.0		
340						339' END OF HOLE						339.0	5.0	8405

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: PA1180579

COORDINATES: 31+603 N. 87+00 E.

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 369' (112.5m)

LOGGED BY: CSW



SECTION	ALTERATION				GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	CHLORITE	SERICITE	CARBONATE	FRACTURING										
0						<u>0.0' - 10.0' OVERBURDEN</u> CASING REMAINS					BW			
10						<u>10.0' - 35.5' TONALITE</u> 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). UNJT. TEND TO BE MODERATELY WELL FRACTURED TO WEAKLY FOLIATED. OCCASSIONAL QUARTZ VNLTs PRESENT (<1cm), GENERAL BARREN OF SULPHIDES BUT WITH PATCHY FELDSPAR GRAINS. TRACE TO NIL DISSEMINATED PYRITE THROUGHOUT	0.1	19	100	BDE-W				
20										100				
30									29					
40						<u>35.5' - 37.0' MAFIC DIKE</u> MEDIUM-DARK GREEN, FINE GRAINED TO PORPHYRITIC (VERY SHARP CONTACTS WITH POSSIBLE CHILLED MARGINS) LIGHT GREEN LAYERS ASSOC. WITH FELDSPAR-QUARTZ VNLTs. TRENDING TO S ₁ (40° TCA) NO CARBONATE OR SULPHIDES NOTED. UPTO 1% FELDSPAR PHENOS.	0.1	39	100					
50						<u>37.0' - 43.5' TONALITE</u> AS IN 10.0' - 35.5' <u>43.5' - 48.5' MAFIC DIKE</u> AS IN 35.5' - 37.0'	0.1	49						
									59	100				

SHARP CNFS @ 35° TCA

SHARP CNFS @ 35° TCA

S₁ @ 40° TCA

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+605 N 87+00 E

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: -49° BEARING: 000°

TOTAL DEPTH: 365'

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
	SILICIFICATION	CHLORITE	SERICITE	CARBONATE												
60																
							48.5'-158.5' TONALITE									
							AS IN 10.0'-35.5' BUT TENDS TO BE MORE SERICITIC AND MINOR PYRITE SECTIONS									
70							S. @ 30° T4A									
										0.1	69	100	3066W			
										0.5 TO 2	79	100		63.0'	3.0'	59872
										0.1	79	100		75.0'	3.0'	59873
										0.1	79	100		78.0'	3.0'	59874
80										0.1	79	100				
										0.1	89	100		84.0'		
										0.1 TO 1	89	100		89.0'	3.0'	59875
										0.1	89	100		92.0'	3.0'	59876
										0.1	89	100		96.0'		
100							MASSIVE			0.1 TO 1	89	100			5.0	8406
							MASSIVE			0.1	109	100		101.0'		
										0.1	109	100		105.0'	4.0'	59877
110							MASSIVE			0.1	109	100			5.0	8407
										0.1	119	100		119.0'		

HOLE NO. ML-92-61

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31605 N. 87100 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 PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITE	SERICITE	CARBONATE												
120							48.5' - 158.5' TONALITE CONT...		0.1	129	100	800mm			
130						Si@33° TGA			0.5	139	100		132.0'	3.0'	59878
140									0.1	149	100		135.0'	4.0'	59878
150							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	159	100		139.0'		
160						RTZ VN CORETECH @ 086/47° CORETECH @ 154° 47' TGA SHARP CNT @ 10° TGA CORETECH CNT @ 178/82°			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		100				
						SHARP CNT CORETECH @ 145/90°			0.1				179.0'		

HOLE NO. ML-92-67

PROJECT: 1446

PAGE NO: 4 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.: 122m

DATE STARTED: FEB 15, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+605 N 87100 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												
180							177.0'-185.5' TONALITE		0.1		100	8060 W	182.0'	3.0'	59880
							CONT...								
190							185.5' - 188.0' MAFIC DIKE								
							AS IN 35.5' - 37.0' BUT LIGHT GREY GREEN IN COLOUR WITH WEAK TO MODERATE SILICIFICATION.			189					
							188.0' - 250.4' TONALITE				100				
							AS IN 10.0' - 35.5'								
200							MASSIVE				100				
										199					
											100				
210															
										209					
											100				
220															
										219					
									0.1		100				
230							MASSIVE								
										229					
									0.1		100				
										235					

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 N 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 RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	CHLORITE	SERICITE	CARBONATE												
240							188.0'-250.4' TONALITE		0.1		100				
						MASSIVE	CONT...		0.1	249					
250						SHARP CNTS @ 45° TCA	250.4'-254.0' MAFIC DIKE		0.1						
							AS IN 185.5'-188.0'		0.1		100				
260						MASSIVE	254.0'-369.0' TONALITE		0.1	259					
							AS IN 10.0'-35.5' BUT WITH K-SMR ALT. FROM 333.0'-335.5'		0.1		100				
270									0.1	269			271		
									0.1		100		275	4	8831
280									0.1	279			279	4	8832
						MASSIVE			0.1		100		283	4'	8833
290									0.1	289			287	4'	8834
									0.1		100		291.0	4'	8835
							ALL INTERVAL HAS DISS PY ON CHL FRACTURES AND DISS IN HOPE-WEARLY. ELEVATED SULPHIDE %.		0.1		100			5.0	8408
									0.5				296.0		
										299			299.0	3.0'	59881

CORE TECH @ 47° TRUE

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: 31+60 S X 87+00 E

DATE FINISHED: FEB 17, 1992

SCALE: 1"=10'

INCLINATION: ~45° BEARING: 000°

TOTAL DEPTH: 365'

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	RTZ												
360							DESCRIPTIVE GEOLOGY									
							254.0'-369.0' TONALITE CONT...			1		100	8.000" DIA			
							MASSIVE									
							END OF HOLE 369'				369					

HOLE NO. ML-92-67X

CASING COLLAR ELEV.:

COORDINATES: 31+60

INCLINATION: -47°

GROUND ELEV.:

87+00 ±

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	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHL FRAC	SERICITE	QTZ												
360							<p><u>369.0' - 369.2' TONALITE</u></p> <p>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</p> <p>White carbonate veinlet 1 mm in thickness.</p> <p>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.</p>								
370						sharp contact									
						QTZ UM			95	100			369.2	3'	8498
						QTZ UM							373.2	3'	8499
						QTZ UM							378.2	3'	8500
380						CHL FRAC					379		381.2	3'	8901
						QTZ UM			95	100			384.2	3'	8902
						Sharp contact							387.2	3'	8903
390						CHL FRAC					389		390.2	3'	8904
													393.2	3'	8905
							<p><u>369.2' - 386.5' SERICITE SCHIST</u></p> <p>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)</p>	<0.1	100						
400											399				
									<0.1	100					
410											409				
								<0.1	100						
										419					

HOLE NO. ML-92-67X

PROJECT: 1446

PAGE NO: 2 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 RECY / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT.	ESTI-MATED
	CHL FRAC	CARBONATE	SERICITE												
420							386.5' - 669.0' TONALITE		<0.1	100		421.8	3'	8906	
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.		<0.1	100		429			
440							MAFIC DYKE		<0.1	100		439			
450							First appearance of quartz pyrite veinlets		<0.1	100		445	4.0'	8907	
460							MOTTLED MILKY TONALITE - SILICIOUS, 10% CHLORITE SPECKLED		<0.1	100		449	4.0'	8908	
470							CHL-QTZ SEAM (VEINS+)		<0.1	100		453	4.0'	8909	
							INCREASING SILICA - PERVASIVE ALT, VEINS WITH FE CARB		<0.1	100		457	4.0'	8909	
									<0.1	100		459	4'	8910	
									<0.1	100		461	4'	8911	
									<0.1	100		465	4'	8912	
									<0.1	100		469	4'	8912	
									<0.1	100		473	4'	8913	
									<0.1	100		477	4'	8914	
									<0.1	100		479	5'	8915	

HOLE NO. ML-92-67X

PROJECT: 1446

PAGE NO: 3 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	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	SERICITE												
480						PY STRINGER QTZ-PY VEINLET QTZ VEINING PY-QTZ STRINGER								
490						QTZ VEIN	<1.0		489	100	6cm	482	4'	8916
						QTZ PY CARB VEINLET						486	4'	8917
						QTZ-PY-CARB VEINLET						490	4'	8918
						MOTTLED MILKY TONALITE - WITH SERICITE	<1.0		499	100		499	4'	8919
						SPECKLED TONALITE - WITH CHLORITE						502	4'	8920
						GRADATIONAL						506	4'	8921
									509	100		509	3'	8922
						DIP TEST 45°			519	100				
									529	100				
												532		
													5.0	8010
												537		
						QPV 1.5-2 cm thick								8011
									539	100				

HOLE NO. ML-92-67X

CASING COLLAR ELEV.:

COORDINATES: 31+40

INCLINATION: -4.7°

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: 4 OF 6

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. PICKSTON

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / MOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	SERECITE												
340														
						QPV 5cm wide		<0.1	100			542	5.0	8011
								<0.1	100			547	5.0	8012
												549	5.0	8013
								<0.1	100			552	4.0	8014
												556	5.0	8015
360												561	4.0	8016
								<0.1	100			565	3.0	8017
						QPV 2cm wide						568	3.0	8018
370												571	3.0	8018
								<0.1	100			576	5.0	8019
						QPV 1.5cm wide						579	5.0	8020
								<0.1	95			586	5.0	8021
												591	5.0	8022
								<0.1	100			594	3.0	8023
						moderate QP veining						599	5.0	8024

HOLE NO. ML-92-67X

PROJECT: 1446

PAGE NO: 5 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	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	CARBONATE	SERECITE												
600												600	4.0	8025
												603	3.0	8026
												606	3.0	8027
						moderate QP veining						609	4.0	8028
610												613	4.0	8029
												617	4.0	8030
						QPV 8cm wide						619	3.0	8031
620												621	5.0	8032
						Quartz vein 6cm wide						624	5.0	8033
						QPV 1.5cm wide						629	5.0	8034
630												634	5.0	8035
						QPV 2.5cm wide						639	5.0	8036
640												644	5.0	8037
												649	5.0	8038
650												659	5.0	8039

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

K 87+00 E

DATE FINISHED: JUNE 10, 1992

SCALE: 1" = 10'

INCLINATION: -47°

BEARING: 000

TOTAL DEPTH: 500

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
	CARBONATE	SERECITE												
660														
669						End of hole - 669' DIP TEST 44°		RY	<0.1	18				

HOLE NO. ML-72-76

PROJECT: 1446

PAGE NO: 1 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER: PA1180579

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

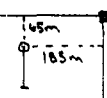
DATE FINISHED: MARCH 5, 1992

SCALE: 1"=10'

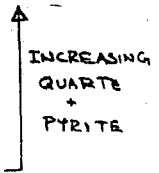
INCLINATION: -52° BEARING: 180°

TOTAL DEPTH: 399' (121.6m)

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
	LIMONITE	SILICIFICATION	CARBONATE												
0							0.0' - 10.0' OVERBURDEN CASING REMAINS					80			
10							10.0' - 147.0' TONALITE BUFF TO YELLOWISH GREY, FINE TO MEDIUM GRAINED, QUARTZ, PLAGIOCLASE, MINOR CHLORITE, MASSIVE TO WEAKLY FOLIATED, VERY HARD, WEAK PATCHY CARBONATE AS FRACTURE FILLING AND PERVASIVE, SEVERAL QUARTZ- PYRITE VEINS, UP TO 1% DISSEMINATED PYRITE AS BLEBS, FRACTURE COATING, CRYSTALS, PATCHY SILICIFICATION, SUBCROP (0-5') LIMONITE STAIN, VUGY QZ-PLAG PEBBLES IN CORE BOX (WEATHERED SULPHIDE RICH VEINS, MINOR ROCK ALT WITHIN VEINS TO MUSCOVITE					80			
15							QZ-PY VEIN COPPER PENNY IN CORE BOX - RAD ASSAY		0.5-1		100		15	4.0'	60628
20							QZ-PY VEIN (2CM TRUE) 30° TO CA		17				15	4.0'	60629
25							QZ-PY VEIN		0.5-1		100		23	4.0'	60630
30							QZ-PY VEIN		29				25.7	2.9'	60631
35							QZ-PY VEINLET 25° TO CA QZ-PY STRINGER QZ-PY STRINGER		0.5		100		28	2.1'	60632
40							ARB-QZ VEIN (VUGY)		39				32	4.0'	60633
45							QZ-PY VEINLET		0.1		100		36	4.0'	60634
50							QZ-PY VEIN QZ-PY STRINGER		49				39	3.0'	60635
55													48.5	5.5'	8385
60													48	3.5'	60636
65													52	4.0'	60637
70									0.1		100		56.0	4.0'	8386
75													59.0	3.0'	8387



HOLE NO. ML-92-76

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+60S N. 86+7.3 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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	CARBONATE												
60														
70						<p>INCREASING CHLORITE</p> <p>↓</p> <p>10.0' - 147.0' TONALITE</p> <p>CONT...</p>		91	69	100	3D864			
80						<p>SLIGHT PY INCREASE NEAR DYKE</p> <p>MAFIC DYKE SHARP CHILLED CONTACTS (30" TO CA)</p> <p>PY-CHL FRACTURES</p>		0.1	79	100		72.3	4.0	8368
90								0.5	87	100		83.3	4.0	60638
100								0.1	99	100		83.5	4.0	8387
110						<p>MAFIC DYKE SHARP CHILLED CONTACTS</p> <p>QTE-FELDSPAR VEINS</p>		0.5	107	100		100.3	4.0	8396
								0.1	109	100		104	4.0	60639
								0.1	119	100		108		

HOLE NO. ML-92-76

PROJECT: 1446

PAGE NO: 3 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				COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CARBONATE	FRACTURING	MINERAL	GEOLOGY									
120					10.0' - 147' TONALITE CONT...		0.5	100	800GM	122.7	5.0	8416	
130				TE-FELD-PY VEIN WITH CHL-PY FRACTURES	CHLORITIC - PYRITIC - QUARTZ FRACTURE CONTINUE BUT ARE SCATTERED		0.1	100		127.7	2.3	60640	
140							0.1	100		130.4	5.0	8417	
150				SHARP 208/B2 CORE TECH 52° TRUE	147.0' - 180.1' MAFIC DYKE 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		135.4			
160							-	100		139			
170							-	100		149			
							-	100		159			
							-	100		169			
							-	100		179			

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+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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SILICIFICATION	CARBONATE												
180						HARD								
						<u>180.1 - 356.8' TONALITE</u>								
						AB IN 10.0 - 147.0'		0.5		100				
150						PY-CHL FRAC			189					
								0.1		100				
200									199					
								0.1		100		201	4'	8950
210						RTZ VEIN			209			209	4'	8951
								0.1		100		213	4'	8952
220									219			217	4'	8953
								0.1		100		221	4'	8954
230						MINOR VEIN AND PRACTIC SHEAR AT 70° TO CA			229			225	4'	8955
									229			229	4'	8956
								0.5		100		233	40'	60641
									239			235	4'	8957
													4'	8958
													4'	8959

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		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	SERICITE												
240						180.1' - 356.8' TONALITE								
						CONT...								
250						OPHYRITIC K-SPAR			249	100	80864	249	3	8959
						MAFIC Xenolith		0.5		100		254	4	8960
						QZ - PY - PLAG VEINLET							5	8961
260									259			258	4.0'	60642
												241.0	3.0	8418
						WITH 2% PY		0.1		100		265.0	4.0	8419
270									269			265.0	3.0	8420
												272.0	4.0	8421
								0.1		100		275	3'	8422
280									279			277	4'	8423
												283	4'	8424
						QZ - PY VEIN		0.1		100		283	4'	8425
290						QZ - PY VEINLET			289			291.0	4.0	8422
												295.0	4.0	8429
												299	4'	8466
						CORE TECH 52° TRUE			299					

HOLE NO. 17L-92-76

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 3, 1992

REF. TO CLAIM CORNER:

COORDINATES: 30+00 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 VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	SILICIFICATION	CARBONATE	SERICITE											
300											500CM			
						180.1' - 356.8' TONALITE								
						CONT...								
310						QZ VEIN] RUBBLE		0.1	309	100		309	4'	8968
						QZ AT 65° TO CA		0.1		100		315	4'	8970
320						QZ AT 50° TO CA			319			320	4'	8971
								0.1		100		322	4'	8972
330						356.8' - 369.6' SERICITE SCHIST			329			329	4'	8973
						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		0.1		100		335	4'	8974
340						QZ-PY VEINLET QZ VEINLET			339			341	4'	8975
						GENERATIONS, THE LAST IS NOT SHEARED, TRACE TO 1% SCATTERED PYRITE		0.1		100		343	4'	8976
350									349			351	4'	8977
								0.5		100		351	4'	8978
						HARP						354	1.8'	8979
									359			359	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+003 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 SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SILICIFICATION	CARBONATE	SERICITE												
360							S ₁ AT 078/87 LATE QTZ VEIN S ₁ AT 245/85		0.1		100	8884	359	4.0'	60644
							CONT...						363	4.0'	60645
370							SHARP LATE QTZ VEINS AT CONTACT 099/79			369			366	2.6'	60646
							369.6' - 399' TONALITE AS IN 180.1 - 356.8		0.1		100		373.6	4.0'	60647
							MARIC DYKE → CNT AT 269/70						376	2.4'	8982
380							CORE TECH 52° TRUE			379			379	3'	8983
									0.1		100		383	4'	8984
													387	4'	8985
390										389			391	4'	8986
									0.1		100		395	4'	8987
400							END OF HOLE 399'						399	4'	8988

HOLE NO. ML-92-77

PROJECT: 1446

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

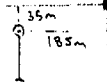
SCALE: 1"=10'

INCLINATION: -48°

BEARING: 180°

TOTAL DEPTH: 229' (69.8m)

LOGGED BY: CSW



SECTION	ALTERATION					COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	RUSTY CARBONATE	CHLORITE	CARBONATE	FRACTURING	MINERAL									
0						0.0' - 5.0' OVERBURDEN CASING REMAINS					5.0'			
10						5.0' - 229.0' TONALITE 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 VNLS. 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.		9	100	800m				
20							0.1	100						
30								100	19					
40								100	29					
50								100	39					
							0.1	100	49					
								100	59					

HOLE NO. ML-92-77

PROJECT: 1446

PAGE NO: 2 OF 4

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 5, 1992

REF. TO CLAIM CORNER:

COORDINATES: 25+67 S X 86+73 E

DATE FINISHED: MAR 6, 1992

SCALE: 1"=10'

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 229'

LOGGED BY: CSW

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
	SILICIFICATION	RUSTY CARBONATE	CHLORITE	CARBONATE												
60							5.0' - 229.0' TONALITE CONT...									
70																
80							DISS. MAGNETITE			0.5	100		85.5			
90							AREA OF LIGHT PINK ALTERATION						89.0	3.5'	60648	
													93.0	4.0'	60649	
										1.0	100		97.0	4.0'	60650	
100							SAMPED						99	3.0'	60651	
										0.5	100		100.0	4.0'	60652	
110																
										0.1	100					
													119			

HOLE NO. ML 92-71

PROJECT: 1446

PAGE NO: 3 OF 4

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MAR 5, 1992

REF. TO CLAIM CORNER:

COORDINATES: 29+67 S W 86+73 E

DATE FINISHED: MAR 6, 1992

SCALE: 1:100

INCLINATION: -48° BEARING: 180°

TOTAL DEPTH: 225'

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
	SULFIDED	RISY CARBONATE	CHLORITE	CARBONATE										
120						5.0' - 225.0' TONALITE CONT...						123	4'	8999
									125	100	bottom	27	4'	8990
130								0.1	125	100		131	4'	8991
									135	100		135	4'	8992
140					LT. PINK ACT.				139	100		139	4'	8993
									143	100		143	4'	8994
150					CORE TECH 48° TRUE				149	100		142	4'	8995
								0.1	149	100		151	4'	8996
									153.0	100		153.0	4'	8997
160									159	100		159.0	4.0'	60653
									163.0	100		163.0	4.0'	60654
								0.1	163	100		162	4'	8998
170					BLEACHED (SERICITE) ALTERED				165	100		171	4'	8999
						UPPER ZONE OF SERICITE SCHIST (ML BZ?)			175	100		175	4'	9000
									179	100		179	4'	8801

HOLE NO. ML-92-79

PROJECT: 1446

PAGE NO: 5 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.	ESTIMATED
	agm	silica	carbonate												
240							239.0' - 263.0' Carbonate breccia As in 208.0' - 233.0' Gradational lower contact.		P ₄	F1		Bottom			
250							263.0' - 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.			249.0	65				
260						silica breccia gradational contact				259.0	70				
270										269.0	70				
280										279.0	65				
290						quartz vein with agm				289.0			289.0	3.0	8008
										292.0	50				
										299.0					

DIP TEST 46°

HOLE NO. 92-79

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: June 6, 1992

REF. TO CLAIM CORNER:

COORDINATES: 1100

N. 4100 E

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
	Sericite														
300															
310							<p>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.</p>		20.1	309.0	50				
320							<p>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.</p>		20.1	329.0	30				
330							<p>hematite staining</p>		20.1	319.0	70				
340							<p>354.0' - 368.0' Interbedded ironstone and chloritic mudstone.</p>		20.1	329.0	60				
350							<p>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.</p>		20.1	339.0	70				
							<p>sheared brecciated</p>		20.1	349.0	50				
									20.1	359.0					

HOLE NO. 11-92-79

PROJECT: 1446

PAGE NO: 7 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 RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP. INT.	ESTI-MATED
	quartz	sericite	carbonate	silica												
360																
370							<p>60% py</p> <p>Silica 60% to CA</p>									
380							<p>observed contact</p> <p>quartz with trace agm</p> <p>carbonate vein</p>									
390																
400																
410																

368.0' - 384.0' Sheared basalt
 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. Weakly silica altered in brecciated zone. Moderate quartz carbonate veining; veins less than 1cm thick. 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.

384.0' - 391.0' Sericite schist
 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.

DIP TEST 45° end of hole

HOLE NO. ML-92-80

CASING COLLAR ELEV.:

COORDINATES: 31+27 S N. 86+50 E.

INCLINATION: -45°

GROUND ELEV.:

BEARING: 000°

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

SECTION	ALTERATION				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	CARBONATE (FE)	FRACTURING										
0						0.0'-25.0' OVERBURDEN CASING REMAINS					SW			
10														
20														
25.0'						25.0'-143.4' TONALITE					PROGm			
30						MEDIUM GREEN-GREY TO PINK, MED. GRAINED, QUARTZ (50-70%) MAFICS (30%), FELDSPAR (10-20%). MASSIVE TO WEAKLY FOLIATED Q 60° TCA. PATCHY CHLORITE FILLED FRACTURES, WEAK CARBONATE (FE) ASSOCIATED WITH QUARTZ VEINS (MOZAIK TEXTURE) AND MINOR FRACTURE CONTROLLED. MINOR MAGNETITE ASSOCIATED WITH K-SPAR ZONES. PYRITE PRESENT AS MEDIUM (<2mm) INDIVIDUAL DIS- GRAINS AND ALSO ASSOCIATED WITH QUARTZ / QUARTZ-CARB VEINS. PYRITE CONTENT <2%, AVERAGE <0.5%. QTZ VNS. <1cm WIDE		29	100					
40					QTZ VN									
50														
					QTZ-PY-FE-CARB VN (<1cm)									
					QTZ-FE-CARB									
								0.5		100		49.0'		
												3.0'	8036	
												4.0'	8037	
												4.0'	8038	

| | | | | | | | | | | | | | | | | | | | |

HOLE NO. ML-92-B

PROJECT: M. VICAR

PAGE NO: 3 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+27 N. 86+50 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 RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT.	ESTI-MATED
	GREEN P/CA	SILICA	CHLORITE	CARBONATE (FE)												
120							<p>25.0' - 143.4' TONALITE</p> <p>CONT...</p>		0.1 TO 1	100	113.0'	4.0'	8047			
130						<p>SHARPER SERICITE TUFFS?</p> <p>QTZ-FE CARB</p> <p>QTZ-FE CARB</p>			129	126.0'	3.0'	8048				
									0.1 TO 1	90	130.0'	4.0'	8049			
140						<p>143.4' - 149.0' MAFIC DIKE</p> <p>DARK GREY GREEN, FINE GRAINED, <1mm, ~3% PLAG PHENOS.</p> <p>WEAKLY FOLIATED @ 30° T.A. WEAK TO MOD. PERSVASIVE</p> <p>CARBONATE THROUGHOUT, FEW QTZ-CARB VENTS, NO SULPHIDE NOTED.</p>			133	134.0'	4.0'	8050				
						<p>MAFIC DIKE</p> <p>SHARP CNT @ 20° T.A.</p> <p>MAFIC DIKE</p> <p>SHARP CNT @ 55° T.A. — DIP TEST @ 35° T.A.</p>			1	100	139.0'	5.0' (4.0')	8051			
150						<p>149.0' - 183.0 TONALITE</p> <p>AS IN 25.0' - 143.4'</p>			0.1 TO 1	100	149.0'	4.0'	8052			
						<p>MINOR K-SPAR + MT.</p>			159	153.0'						
160									0.1 TO 0.5	100	161.5'	4.0'	8053			
						<p>QTZ-FE CARB</p>			163	165.5'	3.5'	8819				
170						<p>QTZ-FE CARB L.P.Y. (NO CHL)</p>			173	169	4'	8820				
									175	172	4'	8821				
									179	177	3'	8822				

HOLE NO. ML-92-80

PROJECT: McVICAR

PAGE NO: 5 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+27 S N. 86+50 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
	SERICITE	SILICA	CHLORITE	CARBONATE (FE)												
240							SHEARED LUT	198.5' - 240.5' TONALITE CONT...		0.1						
							SHARP CNT @ 30° TCA QTZ-FE CARB VNS	HEMATITE		TO 0.1	100		249.5	2.5'	8061	
250							QTZ-FE CARB VNS SHARP CNT SHARP CNT	HEMATITE		0.1 TO 0.5	100		249.5	2.0'	8062	
							BRKLN CNT TONALITE XENOLITHS IRREGULAR CNT	HEMATITE		0.1 TO 0.5	100		251.5	1.5'	8063	
260							SHARP CNT @ 20° TCA	HEMATITE		0.1 TO 0.5	100		255.5	4.0'	8064	
							TONALITE	HEMATITE		TO 0.1	100		262.5			
270							SHARP CNT @ 30° TCA	HEMATITE		0.1 TO 1	100		262.5	2.0'	8065	
							QTZ-FE CARB VNS MIN PY	HEMATITE		0.1 TO 1	100		270.7	3.3'	8066	
280							BRKLN CNT	HEMATITE		0.1 TO 1	100		274.0	4.0'	8067	
							QTZ-FE CARB VNS	GREEN MICA		0.1 TO 1	90		278.0	5.2' (4.2')	8068	
290							QTZ-FE CARB VNS IRREGULAR CNT	GREEN MICA		0.1 TO 1	90		283.7	2.8'	8069	
							QTZ-FE CARB VNS	GREEN MICA		0.1 TO 0.5	100		288.0	2.0'	8070	
							IRREGULAR CNT	GREEN MICA		0.1 TO 0.5	100		291.0	3.0'	8071	
							DP TEST @ 299' 38°			0.1 TO 0.5	100		295.0	4.0'	8072	
							QTZ-FE CARB VNS SHEARED ALTERED GABBRO	GREEN MICA		0.1 TO 0.5	100		299.0	4.0'	8073	

HOLE NO. ML-92-80

PROJECT: McVICAR

PAGE NO: 7 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+27 S N 86+50 E

DATE FINISHED: JUNE 13, 1992

SCALE: 1"=10'

INCLINATION: -45°

BEARING: 000°

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
	K-SPAR	SILICA	CHLORITE	CARBONATE(Fe)												
360							351.3' - 367.0' <u>MAGIC DIKE</u>									
							CONT...									
							367.0' - 415.0' <u>TONALITE</u>									
370							AS IN 25.0' - 143.4' BUT WITH MINOR DISSEMINATED AN CHLORITE FRACTURE ASSOC. PYRITE. UNIT HAS MOD. K-SPAR AND MINOR HEMATITE FRACTURES ALSO MINOR TO MOD FRACTURE ASSOC. CARB.			369	100			367.0	4.0'	8088
										0.1 TO 1				375.0	4.0'	8089
											100			371.0	4.0'	8090
380							415.0' - 419.0' <u>GABBRO</u>									
							MEDIUM GREEN, MEDIUM GRAINED, WEAKLY FOLIATED @ 35° TCA. MAY SIMPLY BE A SEPERATE PHASE OF TONALITE. TRACE PYRITE.			0.1 TO 1				383.0	4.0'	8091
											100					
390																
							419.0' - 519.0' <u>TONALITE</u>			0.1 TO 1				396.0		
							AS IN 25.0' - 143.4' BUT WITH MOD AMOUNTS OF DISS. AND BLEBBY PYRITE AND ASSOC WITH CHLORITE AND QUARTZ VNS. AND VNLTS. (UP TO 1-2%)							392.0	3.0'	8092
400														403.0	4.0'	8093
										0.1 TO 0.5				405.5	2.5'	8094
											100			407.0	3.5'	8095
														412.5	3.5'	8096
410										12'S						
														419.0		

SHARP LWT @ 35° TCA

QTZ VNS

QTZ-PY VNS

IRREGULAR CUT

HOLE NO. ML-92-80

PROJECT: MCVICAR

PAGE NO: 8 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 1992

REF. TO CLAIM CORNER:

COORDINATES: 34275 N 86+50 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
	SERICITE	SILICA	CHLORITE	CARBONATE (FE)												
420							419.0' - 519.0' TONALITE									
							CONT...									
430							QTZ-VN PY-VN (3mm)			0.1 To	429	100		423.0	4.0'	8097
							QTZ-CHL PY-VN							427.0	4.0'	8098
							QTZ-CHL PY-VN							431.0	4.0'	8099
							QTZ-CHL PY-VN							435.0	4.0'	8100
440							QTZ-FECARB VN				439			439.0	4.0'	8101
							QTZ-CHL PY-VN							443.0	4.0'	8102
							QTZ-CHL PY-VN							447.0	4.0'	8103
450							QTZ-FECARBVN DIP TEST @ 449' 30°				449			451.0	4.0'	8104
							QTZ-CHL PY-VN							455.0	4.0'	8105
460							QTZ-CARB-PY (40% VEINLET (1cm THICK)				459			459	4.0	8823
							MOTTLED TONALITE, DISS. PY TO 0.5cm CRYSTALS, MINOR CHL + CARB FRACTURING							462	3.0	8824
							QTZ-FECARB + PY ← MAYBE RESPONSIBLE FOR GOLD ASSAY - PY CONTENT IS ELEVATED IN INTERVAL NO CHL							466.0	4.0	8825
470							QTZ-FECARB VN							469	3.0	8106
							MARL DIKE QTZ-FECARB PY-VN							473.0	4.0'	8107
							QTZ-FECARB PY-VN							474.0	NO SAMPLE	
							QTZ-FECARB PY-VN							478.0	4.0'	8108
														479		8109

HOLE NO. ML-9Z-80

PROJECT: McVICAR

PAGE NO: 9 OF 11

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+27 S X 86+50 E

DATE FINISHED: JUNE 13, 1992

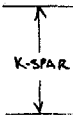
SCALE: 1"=10'

INCLINATION: -45° BEARING: 000°

TOTAL DEPTH: 644.0'

LOGGED BY: J.W.

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	SILICA	CHLORITE	CARBONATE (FE)											
480							419.0' - 519.0' TONALITE CONT...		0.1 To 0.5	100		482.0	4.0'	8109	
						QTZ VNS						486.0	4.0'	8110	
490						QTZ PY VN. QTZ-FECARB PY VNS			0.1 To 0.5	100		496.0			
						QTZ-CHL PY VN						500.0'	4.0'	8111	
500						QTZ VNS PYVN (Lm)			0.5 To 1	100		504.0'	4.0'	8112	
						PY VNS (3mm)						508.0'	4.0'	8113	
510						QTZ-CHL PY VN			0.5 To 1	100		512.0'	4.0'	8114	
						GABBRO	519.0' - 521.0' GABBRO AS IN 415.0' - 419.0'					516.0'	4.0'	8115	
520							521.0' - 644.0' TONALITE AS IN 419.0' - 519.0'. MOD. TO STRONG ANKERITE? Assoc. WITH QTZ VNS. AFTER 600'					512.0'	3.0'	8116	
									0.1	90		521			
530						QTZ-FECARB VN QTZ-SPHALERITE (4.5%) VN PY-CHL VN (1mm)			0.1 To 0.5	100		535	4.0'	8827	
												532.0	4.0'	8830	



HOLE NO. ML-92-80

PROJECT: McVIGAR

PAGE NO: 10 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: 1:210'

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
	SERICITE	SILICA	CHLORITE	CARBONATE(Fe)												
540							<p>521.0' - 644.0' TONALITE</p> <p>CONT...</p>						80cm	4.0'	8117	
										0.1 TO 0.5	100			543.0	4.0'	8118
										0.1 TO 0.5	100			547.0	4.0'	8119
550										0.1 TO 0.5	100			551.0	4.0'	8120
										0.1 TO 0.5	100			555.0	0.5'	8121
										0.1 TO 0.5	100			555.5	3.5'	8122
560										0.5 TO 1	100			557.0		
										0.5 TO 1	100			565.0	4.0'	8123
570										0.5 TO 1	100			569.0	4.0'	8124
										0.5 TO 1	100			573.0	4.0'	8125
										0.1 TO 0.5	100			577.0	4.0'	8126
580										0.1 TO 0.5	100			581.0	2.0'	8127
										0.1 TO 0.5	100			583.0	4.0'	8128
										0.1 TO 0.5	100			587.0	2.0'	8129
590										0.1 TO 0.5	100			589.0	3.0'	8826
										0.1 TO 0.5	100			592.0	3.0'	8827
										0.1 TO 0.5	100			595.0	4.0'	8130
										0.1 TO 0.5	100			597.0		

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: 34273 N 86+50 E

DATE FINISHED: JUNE 13, 1992

SCALE: 1"=10'

INCLINATION: -45° BEARING: 090°

TOTAL DEPTH: 644.0'

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
	AMPHIBOLE ?	SILICA	CHLORITE	CARBONATE (FE)												
600							521.0' - 644.0' TONALITE CONT...		0.1 TO 1	609	100		603.0	4.0'	8131	
													606.0	3.0'	8132	
610									0.5 TO 1	619	100		612.0	3.0'	8133	
							QTL-CARB-ANKEALITE PI VNS						615.0	4.0'	8134	
620							QTL-FC LARD PI VNS		0.1 TO 1	629	100		619.0	4.0'	8135	
							QTLVNS						623.0	4.0'	8136	
630							QTL-FC LARD PI VN (7-10%)		0.1 TO 0.5	639	100		627.0	4.0'	8137	
							QTL-FC LARD VN						631.0	4.0'	8138	
640							QTL VN		0.1		100		635.0	3.0'	8139	
							DIP TEST 35°	END OF HOLE @ 644'					638.0			

HOLE NO. ML-92-B1

PROJECT: McVICAR

PAGE NO: 2 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: 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	ESTIMATED
	SERICITE	SILICA	CHLORINE	CARBONATE												
60							7.0'-126.5' TONALITE CONT...									
							QTL-FC CARB VNS		0.5 TO 1		100		66.0'	4.0'	8144	
							QTL-FC CARB PY VNS (15%) K-SPAR			69			66.0'	4.0'	8145	
70							QTL-FC CARB ANKERITE VNS		1 TO 0.1		100		70.0'	4.5'	8846	
							QTL-FC CARB - CHL-PY VNS (15%)			79			74.5'	4.5'	8847	
80							QTL-FC CARB - CHL-PY VNS (15%)		0.5 TO 1		100		79.0'	4.0'	8146	
							QTL-PY VNS (50%)			89			83.0'	4.0'	8147	
90							QTL-FC CARB - CHL - PY 80% VNLTS		0.5 TO 1		100		87.0'	4.0'	8148	
							QTL-FC CARB - CHL - PY 10% VNLTS			89			89.0'	2.0'	8149	
							QTL-FC CARB - CHL - PY 10% VNLTS		0.5 TO 1		100		93.0'	4.0'	8150	
100							QTL-FC CARB - CHL - PY 10% VNLTS			99			97.0'	4.0'	8151	
							QTL-FC CARB - PY VNS (10%)		0.5 TO 1		100		101.0'	4.0'	8152	
							QTL-FC CARB - PY VNS (10%)			109			105.0'	4.0'	8153	
110							QTL-PY VNS (2%)						109.0'	4.0'	8154	
							QTL-FC CARB - PY VNS (15%)		0.5		100		113.0'	4.0'	8155	
													115.0'	2.0'	8155	

HOLE NO. ML-92-82

PROJECT: 1446

PAGE NO: 1 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S N 86+00 E

DATE FINISHED: JUNE 17, 1992

SCALE: 1"=10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 399' (121.6m)

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
	APPLE GREEN / ANICA	SERICITE	CHLORITE	CARBONATE												
0								0.0' - 6.0' OVERBURDEN CASING REMAINS								
10								6.0' - 15.4' TONALITE MEDIUM GREY-GREEN, MED. GRAINED, QTZ (70%) 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.		9	100					
20								15.4' - 23.4' SHEARED GABBRO MEDIUM GREEN WITH DARK GREEN (1-2mm) SPOTS (23%), FINE GRAINED, WELL FOLIATED TO SHEARED @ 20-30° TCA. MINOR CARBONATE VNLTs, NO SULPHIDES NOTED.		19	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, 2%.		29	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.		39	100					
50								46.0' - 158.0' TONALITE AS IN 23.4'-40.5' WITH MORE DISS. SULPHIDES ASSOC. WITHIN 1-2 m OF QTZ-FECARB VEIN. BUT OVERALL LESS CHLORITE AND SERICITE.		49	100					

SHARP CUT @ 20° TCA

SHARP CUT @ 40° TCA

BROKEN CUT
QTZ VEIN (BARREN)

K-SPAR

HOLE NO. ML-92-82

PROJECT: 1446

PAGE NO: 2 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 3400 S N 040 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
	SERICITE	CHLORITE	CARBONATE											
60						46.0' - 138.0' TONALITE CONT...								
70						K-SPAL RTZ-EE CARB VN, MIN. PI		100	69	100		69.0'	4.0'	8199
80								100	79	100		73.0'		
90						QTZ-PY VN (<1%)		100	89	100		89.0'		
						RTZ-FE CARB VN'S		100		100		93.0'	4.0'	8200
100						RTZ-FE CARB VN		100	99	100		97.0'	4.0'	8201
						MARL DIKE SHARP CUTS @ 90-95' TCA		100	109	100				
110						MARL DIKE		100		100				
								100	119	100				

HOLE NO. ML-92-BZ

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 N 86+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												
120								46.0' - 158.0' TONALITE CONT...				100				
130											129	100				
140											139	100				
150											149	100				
160								158.0' - 178.0' SHEARED GABBRO MEDIUM GREEN, FINE TO MEDIUM GRAINED, WELL SHEARED @ 0-15° TCA. TRACE CARBONATE ALTERATION AS RARE MM-SCALE VNITS, CHLORITIC THROUGHOUT. SEVERAL CM-SCALE QTZ-FECARB VNJS. WITH MINOR ASSOC. GREEN MICA. NO SULPHIDES NOTED.				159	100	154.0'	4.0'	8202
														158.0'	3.0'	8203
														161.0'	3.0'	8204
														164.0'	3.0'	8204
170								178.0' - 183.0' TONALITE AS IN 46-158'				169	100			
														176.0'		
														178.0'	2.0'	8205
														179.0'	3.0'	8206



DIP TEST @ 50°

SHARP CNT
10° TCA
QTZ-FECARB
VNJS
(GREEN MICA)

QTZ-FECARB
VN

QTZ-FECARB
VN

SHARP CNT
@ 15° TCA

HOLE NO. ML-92-82

PROJECT: 1446

PAGE NO: 5 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31400 S N. 86° 00' E.

DATE FINISHED: JUNE 17, 1992

SCALE: 1 1/2" = 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												
240								235.0' - 249.0' MAFIC DIKE CONT...								
250							SHARP CNT @ 60° TCA MAFIC DIKE MAFIC DIKE	249.0' - 289.5' TONALITE AS IN 6.0' - 15.4', WITH SOME SILICIFIED PORTIONS AND THE OCCASIONAL MAFIC DIKE (<1').			249	100				
260											259	100				
270											269	100				
280								289.5' - 296.0' MAFIC DIKE / GABBRO? MED. TO DARK GREEN FINE TO MED. GRAINED MASSIVE - WEAK TO MOD. PERVASIVE CARB. NO SULPHIDES NOTED.			279	100		279.0'		
290							SHARP CNT @ 30° TCA SHARP CNT @ 50° TCA	296.0' - 377.5' TONALITE AS IN 6.0' - 15.4' WITH SOME PATCHY K-SPAR AND MINOR HEMATITE FRACTURES. MOD. CHLORITE FRACTURES AND SERICITE ALTERATION FROM 330' - 370'.			289	100		283.0'	4.0'	B215
											299	100		287.0'	4.0'	B216

DR. TEST @ 50'

HOLE NO. ML-92-82

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 16, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 S N. 86+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 RECY / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP. INT.	ESTI-MATED
	SILICA	SERICITE	CHLORITE	CARBONATE												
300							RUBBLE	296.0'-377.5' TONALITE								
							K-SPAR	CONT...				95				
310												100				
320														321.0'		
								QTZ-PYVN (90%) ← ALL BEARING VEIN, MASSIVE PYRITE IS FRACTURED WITH HEMATITIC VEINLETS (15mm)				100		324.0'	3.0'	8217
														326.0'	2.0'	8218
330														329.0'	3.0'	8219
															5'	8854
														334'		
															5'	8855
340														339.0'		
														343.0'	4.0'	8220
														347.0'	4.0'	8221
															4.0'	8222
350														351.0'		
														355'	4'	8856
															4'	8857
							MAGIC DIKE							359'		

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: 3100 N 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	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
0							0.0' - 11.5' OVERBURDEN CASING REMAINS								
10													11.5'		
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 QZ AND OR CHLORITE VENS AND VULTS.	0.5 1	19	100			14.5'	3.0'	B228
													18.0'	3.5'	B229
													20.5'	2.5'	B230
30							SHARP CNT @ 50° TCA	0.5							
40							SHARP CNT @ 60° TCA MAFIC DIKE PINK K-SPAR ZONE	1 0.1		100					
							20.5' - 32.0' GABBRO MEDIUM GREEN, MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 60° TCA. APPROX. 50% MAFICS + 50% PLAC.	0.1		100			32.0'		
							MOD. TO WEAK PERVASIVE CARBONATE. TRACE DISS. PYRITE						43.0'	4.0'	B231
							32.0' - 39.0' TONALITE AS IN 11.5' - 20.5', MAFIC DIKE IS APHANITIC, MEDIUM TO DARK GREY, WEAK TO MOD. CARB. No SULPHIDES	0.1		100					
50															
													53.0'		
													57.0'	4.0'	B232
													59.0'	4.0'	B233

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 1/2" = 10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 899'

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.	ESTIMATED
	SERICITE	CHLORITE	CARBONATE												
60							32.0' - 89.0' TONALITE						61.0'	4.0'	8233
							CONT...		0.1		100		65.0'	4.0'	8234
									0.5				69.0'	4.0'	8235
70										69			73.0'	4.0'	8236
							89.0' - 101.0 SERICITE SCHIST		0.1		100		75.0'	2.0'	8237
							LIGHT TAN-BEIGE, FINE GRAINED, SERICITE (60%) WEAK PERVASIVE CARBONATE, WELL FOLIATED @ 30° RA. <1% DISS. PYRITE THROUGHOUT.			79			79.0'	4.0'	8238
80													82.0'	3.0'	8239
									70		100		85.0'	2.0'	8240
									0.1				89.0'	4.0'	8241
90										89			92.0'	3.0'	8242
													95	3'	8243
									0.1		100			4'	8244
100							101.0' - 300.2 TONALITE			99			99	2.0'	8245
							AS IN 11.5' - 20.5'						101	4'	8246
									0.1		100		105	4'	8247
										109			109.0'	4.0'	8243
									0.1		100		113.0'	4.0'	8244
110													117.0'	4.0'	8244
													120.0'	3.0'	8245

HOLE NO. ML-92-83

PROJECT: 1446

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 3100 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	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	SERICITE	CHLORITE	CARBONATE												
120					QTL		101.0' - 300.2' TONALITE						120.0'		
							CONT...		0.5		100		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		100		133.0'	3.0'	8249
							PLENTY QTL VEINS WITH FOGGY MARGINS, CHLORITE IS		0.5				137.0'	4.0'	8250
140							REDUCED TO <5% BUT COMMON ON FRACTURE PLANES AND			139			141.0'	4.0'	8251
							PRESENT ON SOME VEIN MARGINS (LATER SET)		0.5		100		143.0'	4.0'	8252
							V.G. (HAND SAMPLE)		2				147.0'	2.0'	8253
							HIGH GRADE VEIN (1.65 opt) MILKY QUARTZ WITH 10% FE CARB			149			151.0'	4.0'	8254
150							30-40% MASSIVE PYRITE LENS, <2% CHALCOPYRITE, VEIN MARGINS						155.0'	4.0'	8255
							ARE CHLORITIC, GOLD OBSERVED AS FRACTURE FILLING						159.0'	4.0'	8256
							SOME VEINS HAVE LADDER TEXTURE		0.1		100		163.0'	4.0'	8257
										159			167.0'	4.0'	8258
160													170.0'	3.0'	8259
													173.0'	3.0'	8260
									0.1		100		177.0'	4.0'	8261
170									0.5				181.0'	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 86° 15' 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 RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
180							101.0' - 300.2' TONALITE CONT...						181.0'	4.0'	8262
									0.1		100		185.0'	4.0'	8263
										189			189.0'	4.0'	8264
190													193	4.0'	8268
									0.1		100		195	2.0'	8277
													199	4.0'	8230
200													203	4.0'	8231
									0.1		100		205.0'	2.0'	8232
													209	5.0'	8265
210													210.0'		
									0.5		100		213.0'	3.0'	8266
													217.0'	4.0'	8267
													219	4.0'	8268
220													221.0'		
									0.1		100		225.0'	4.0'	8273
													229.0'	4'	8273
230													229		
													233.0'	4.0'	8269
									0.1		100		237.0'	4.0'	8270
													239	4.0'	8274

HTL-FCARR
CHL-PY (1%) VN

↑
PATCHY
K-SPAR
↓

K-SPAR ZONES APPEAR TO BE THE UNALTERED
INTERVALS - GRANODIORITE

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: 31+00 S

M 86+75 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	CHLO RITE	CAR BONATE												
240					QTZ		101.0' - 300.2' TONALITE CONT...					300cm	241		
							K-33AA		0.1		100		244	3.0'	8935
									0.1				247	3.0'	8936
250										249				4.0'	8937
									0.1 TO 0.5		100		251.0'		
							QTZ-PY VN (3%)						254.0'	3.0'	8271
							QTZ-PY VN (3%) QTZ-CAR VN						258.0'	4.0'	8272
260							QTZ-FELMB VN PY (4%)			259			262.0'	4.0'	8274
							QTZ-FELMB VN PY		0.1 TO 0.5		100		266.0'	4.0'	8275
							QTZ-FELMB VN PY			269			270.0'	4.0'	8276
270							QTZ-FELMB VN PY		0.1		100		273.0'	3.0'	8277
									1 TO 0.1		100				
280										289					
									1 TO 0.1		100				
290										289					
													297.0'		
										299				4.2'	8278

DIP TEST @ 50°

HOLE NO. ML-92-83

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 18, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+00 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	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
300							SHARP CUT @ 60° TCA						300.2		
							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.				100				
310										309					
											100				
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 VNLS.						324.0	4.0	B279
									0.1		100		328.0	4.0	B280
330										329			332.0	4.0	B281
									0.5		100		336.0	4.0	B282
									0.5				339.0	3.0	B283
340										339			342.0	3.0	B284
									0.8		100		345.0	3.0	B285
									0.5				349.0	4.0	B286
350										349			352.5	3.5	B287
									0.5		100		356.0	3.5	B288
													359.0	3.0	B289
										359				3.5	B290

HOLE NO. ML-92-34

PROJECT: 1446

PAGE NO: 1 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' (149.1m)

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												
0							<u>0.0' - 24.0' OVERBURDEN</u> Casing remains								
24.0							<u>24.0' - 32.5' TONALITE</u> Light to medium olive green to grey. Medium grained. Quartz (75%), Mafics (10%), Sericite (10%), Feld. (5%). Massive to weakly foliated at 30-50° TCA. Rare chlorite filled fractures, weak carbonate in fractures and veinlets, weak to moderate pervasive sericite. Pyrite present as fine to medium diss. (<2mm) and subhedral grains, also associated with Quartz-Fe-carbonate veins and veinlets	20.1	29	100	28.0				
32.5							<u>32.5' - 35.9' MAFIC DIKE</u> Dark green. Aphanitic to fine grained. Massive to weakly foliated at 40-50° TCA. Few chlorite veinlets, weak to moderate pervasive carbonate also associated with moderate silica stockwork	20.1 TO 0.5	39	100	32.0	4.0	8295		
35.9								<0.1	49	100	46.0	3.0	8296		
46.0								<0.1	59	100	49.0	2.0	8297		
54.0											51.0	3.0	8298		
58.0											54.0	4.0	8299		

HOLE NO. ML-92-84

PROJECT: 1446

PAGE NO: 3 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 RECY / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP. INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
120							<p>91.0 - 115.0' TONALITE</p> <p>As in 70.1 - 85.0'. Few sulphides. K-spar more intense</p>								
130							<p>115.0 - 125.5' SHEARED GABBRO</p> <p>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.</p>								
140															
150															
160															
170															

QTZ FE CARB VN

K-SPAR

CARB. VN WITH LIMONITE

DIP TEST AT 48°

QTZ CHL, FE CARB, PY VNS

125.5 - 219.2' TONALITE

As in 70.1 - 85.0'. Moderate sericite alteration begins. Limonite + Hematite diminish.

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							<p>219.2 - 230.0' SERECITE SCHIST</p> <p>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.</p>									
190							<p>230.0' - 403.0' TONALITE</p> <p>As in 35.9' - 68.5'</p>									
200																
210																
220																
230																

QTZ PY VN
LIMONITE + NEMATITE
END

QTZ PY VN

SHARP CONTACT AT
45° TCA

QTZ PY VNS
(<0.1%)

SHARP CONTACT AT
60° TCA

HOLE NO. ML-92-84

PROJECT: 1446

PAGE NO: 5 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. PICESTON

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							<p align="center"><u>230.0 - 403.0' TONALITE (cont.)</u></p> <p>← Potential High GRADE VEIN, NO CHLORITE AT VEIN MARCHINS TONALITE IS MOTTLED MILKY SERICITE TYPE ABOUT VEIN</p> <p>NUMEROUS QTZ, FE CARB (PY) (<0.1%) VEINS + VEINLETS</p> <p align="center">- DIPT TEST AT 46°</p>									
						QTZ PY VN					241	100	4.0	242	4'	8942
											249			246	2'	8943
250						QTZ PY VN								248.0	4.0	8314
														252.0	4.0	8315
											259			256.0	4.0	8316
260						QTZ PY VN								260.0	3.0	8317
														263.0	4.0	8318
						QTZ PY, P, CP, Fe Carb. Vn 10cm wide (25% sulphides)					269			267.0	3.0	8319
270														270.0	4.0	8320
						QTZ PY Vn								274.0	4.0	8321
						QTZ PY Vn								276.0	4.0	8322
280														282.0	4.0	8323
											289			286.0	4.0	8324
														290.0	4.0	8325
290														294.0	4.0	8326
										299			298.0	4.0	8326	

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.)								
							NUMEROUS Qtz, Fe CARB/PY (<0.1%) VEINS + VEINLETS		<0.1	309	100	4.0	8328		
310									<0.1	319	100	4.0	8330		
									<0.1	319	100	4.0	8331		
320									<0.1	329	100	4.0	8332		
									<0.1	329	100	4.0	8333		
330									<0.1	339	100	4.0	8334		
									<0.1	339	100	4.0	8335		
340									<0.1	339	100	4.0	8336		
									20.1 To 0.5	349	100	4.0	8337		
							TR CPY ← SILICIFIED TONALITE WITH DISS PYRITE, PY-CPY-CHL VEINLETS WITHIN AN BEARING INTERVAL		<0.1	349	100	4.0	8338		
350									<0.1	349	100	4.0	8339		
									<0.1	359	100	4.0	8340		
										359		4'	8945		
										359		4'	8946		

HOLE NO. ML-92-84

PROJECT: 1446

PAGE NO: 7 OF 9

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 20, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+20

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												
360							230.0' - 403.0' TONALITE (cont.)								
							403.0' - 414.5' QUARTZ, FE-CARB., CHLORITE ZONE								
							White to dark green. Quartz (30%), Chlorite (30%) Fe-carbonate (40%). Fine grained to aphanitic								
							Massive to weakly foliated at 0-60° TCA								
							Weak to moderate patchy carbonatization. chlorite in irregular patches + veinlets								
							Trace disseminated pyrite. Host rock is TONALITE								
							From 403.0' - 407.5' and GABBRO from 407.5' - 414.5'								
							414.5' - 428.5' SHEARED GABBRO								
							As in 115.0' - 125.5'. But fine grained to aphanitic.								
							Massive to moderately foliated at 45° TCA.								
							Moderate to strong carbonate in veinlets.								
							No sulphides nor Hematite present								
							FAULT ZONE TRACE PYRITE								
							CARBONATE DECREASES								

QTZ FE-CARB, PY VN
CHL, PY BAND

QTZ, CHL VEINS FROM
0° - 60° TCA.

HOLE NO. ML-92-84

PROJECT: 1446

PAGE NO: 8 OF 9

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 20, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31° 20'

N. 86° 15' E.

DATE FINISHED: JUNE 22, 1992

SCALE: 1" = 10'

INCLINATION: -5°

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												
42															
42							CARB. DECREASES 414.5' - 428.5' SHEARED GABBRO (cont.)		<0.1		100				
430							428.5' - 489.0' TONALITE As in 35.9' - 68.5'. Sheared Gabbro same as in 414.5' - 428.5'.			429					
440							SHEARED GABBRO								
440									<0.1	439		100			
450							QUARTZ FE-CARB VN								
450									<0.1	449		100			
460							CHLORITE PY VNS								
460										459					
460							SEVERAL QTZ, FE-CARB VNS								
460									<0.1	469		100		4.0	8349
470															
470									<0.1	479		100			

HOLE NO. ML-92-85

PROJECT: 144

PAGE NO: 1 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' (115.5m)

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												
0							0.0' - 9.0' OVERBURDEN CASING REMAINS								
10							<u>9.0' - 63.5' TONALITE</u> MEDIUM GREY + MEDIUM GRAINED, MINOR CHLORITIC FRACTURES, WEAK SERICITE (PATCHY), MASSIVE TO WEAKLY FOLIATED @ 50° TCA. MINOR PYRITE PRESENT AS 1mm DISS. GRAINS AND ASSOC. WITH CHL VNLT'S. NARROW GABBRO UNIT, MED. GRAINED, MASSIVE, NO SULPHIDES.	0.1	9'	100		13.6'	4.0'	B352	
20						QTL-CHL PY VN (7%)		0.1	19'	100		17.0'	4.0'	B353	
30						QTL-FE CARB VN		0.1	29'	100		21.0'	4.0'	B354	
40						QTL-PY VN (5%)		0.1	39'	100		25.0'	4.0'	B355	
50						GABBRO		0.1	49'	100		29.0'	4.0'	B356	
						QTL-FE CARB CHL-PY VN (8%)		0.1	59'	100		33.0'	4.0'	B357	
								0.1				37.0'	4.0'	B358	
								0.1				40.5'	3.5'	B359	
								0.1				42'	NO	SAMPLE	
								0.1				46.0'	4'	B360	
							0.1				50.0'	4.0'	B361		
							0.1				54.0'	4.0'	B362		

HOLE NO. ML-92-85

PROJECT: 144

PAGE NO: 3 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 34+10 N 85+73 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	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
120							72.5'-165.5' TONALITE CONT...						123.0	4.0	8362
130										129	100				
140										139	100		139.0	4.0	8364
150							DIP TEST @ 50°			149	100		143.0		
160										159	100				
170							165.5'-170.5' MAFIC DIKE DARK GREEN FINE GRAINED, WEAKLY FOLIATED @ 40° TCA TRACE DISS PYRITE			170	100				
							170.5'-243.0' TONALITE AS IN 72.5'-165.5'			169	100		170.5'		
										175	100		174.5'	4.0	8365

SHARP CUTG

SHARP CUTG

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: 31410 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	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	SERICITE	CHLORITE	CARBONATE												
180							170.5' - 243.0' TONALITE CONT...		0.1	189	100	3	181	4'	8374
													185.0	4'	8375
													189.0	4'	8376
190									0.1	194	100		193.0	4'	8377
													197.0	4'	8378
						MARBLE VEIN							199.0	2.0	8379
200									0.1	209	100		202.0	4.0	8370
													207.0	4.0	8371
						QTZ-FE CARB CHL VNS							211.0	4.0	8372
210									0.1	219	100		215.0	4.0	8373
						QTZ-FE CARB VNS							219.0	4.0	8374
						QTZ-CHL PY VNS (2%)							223.0	4.0	8375
220									0.1	229	100		231.0		
													235.0	4.0	8376
230									0.1	239	100		239.0	4.0	8377

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: 3140' N. 85+75 E.

DATE FINISHED: JUNE 24, 1992

SCALE: 1:10'

INCLINATION: -50° BEARING: 000°

TOTAL DEPTH: 379'

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													
240							<p>170.5'-243.0' TONALITE</p> <p>CONT...</p> <p>243.0'-274.5' SHEARED GABBRO</p> <p>MED. TO DARK GREEN, FINE GRAINED, WEAKLY SHEARED @ 25-30° TCA. MOD CARBONATE VNS. AND UNLTS + WEAK TO MOD. PERVASIVE CARBONATE. NO SULPHIDES NOTED.</p>									
250																
260																
270																
280							<p>274.5'-312.0' TONALITE</p> <p>AS IN 9.0'-63.5' BUT WITH WEAK TO MOD. PERVASIVE CARBONATE. FINE DISS. PY <1%. WEAK TO MOD. FRACTURE CONTROLLED HEMATITE.</p>									
290																

QTZ-CHL
PY(2%) VNS
IRREGULAR
CWT

SHARP CWT
@ 25° TCA

HEMATITE

DIP TEST @ 50°

HOLE NO. ML-92-85

PROJECT: 1446

PAGE NO: 6 OF 7

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JUNE 23, 1992

REF. TO CLAIM CORNER:

COORDINATES: 31+105

N. 85+75 E.

DATE FINISHED: JUNE 24, 1992

SCALE: 1/2" = 10'

INCLINATION: -50°

BEARING: 000°

TOTAL DEPTH: 379'

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												
300							274.5' - 312.0' TONALITE CONT...		0.1		100	38cm	304.5		
310						RUBBLE	312.0' - 322.0' GABBRO AS IN 63.5' - 68.5' WITHOUT GREEN MICA AND WITH WEAK TO MOD. CARBONATE AND MASSIVE. TRACE PYRITE		12.1	309	100		309.0	4.5'	8383
320						RUBBLE	322.0' - 331.0' TONALITE AS IN 274.5' - 312.0'		-	319	100				
330						BROKEN UP	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	100				
340						TONALITE			-	339	100				
350						IRREGULAR CNT	349.0' - 353.5' TONALITE AS IN 72.5' - 165.5'		12.5	349	100		349.5	4.0'	8384
						IRREGULAR CNT	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			359	100		353.5	4'	8385
										359			359.5	2.5'	8386

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: 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												
360							353.5'-364.0' MAFIC DIKE/SERICITE SCHIST CONT...								
						SHARP CUTS	364.0'-365.0' SERICITE SCHIST		100	369			364	3'	8871
							LIGHT TAN, FINE GRAINED, SERICITE, TRACE PYRITE						365	1'	8870
370							365.0'-379.0' TONALITE AS IN 9.0'-63.5' WITH WEAK PERV. CARB. AND PATCHY SERICITE, TRACE PYRITE.						369	4'	8871
							NO TEST						373	4'	8872
							END OF HOLE						377	4'	8873
													379	2'	8874

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

<u>hid</u>	<u>sample</u>	<u>width</u>	<u>AU</u>
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

<u>hid</u>	<u>sample</u>	<u>width</u>	<u>AU</u>
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

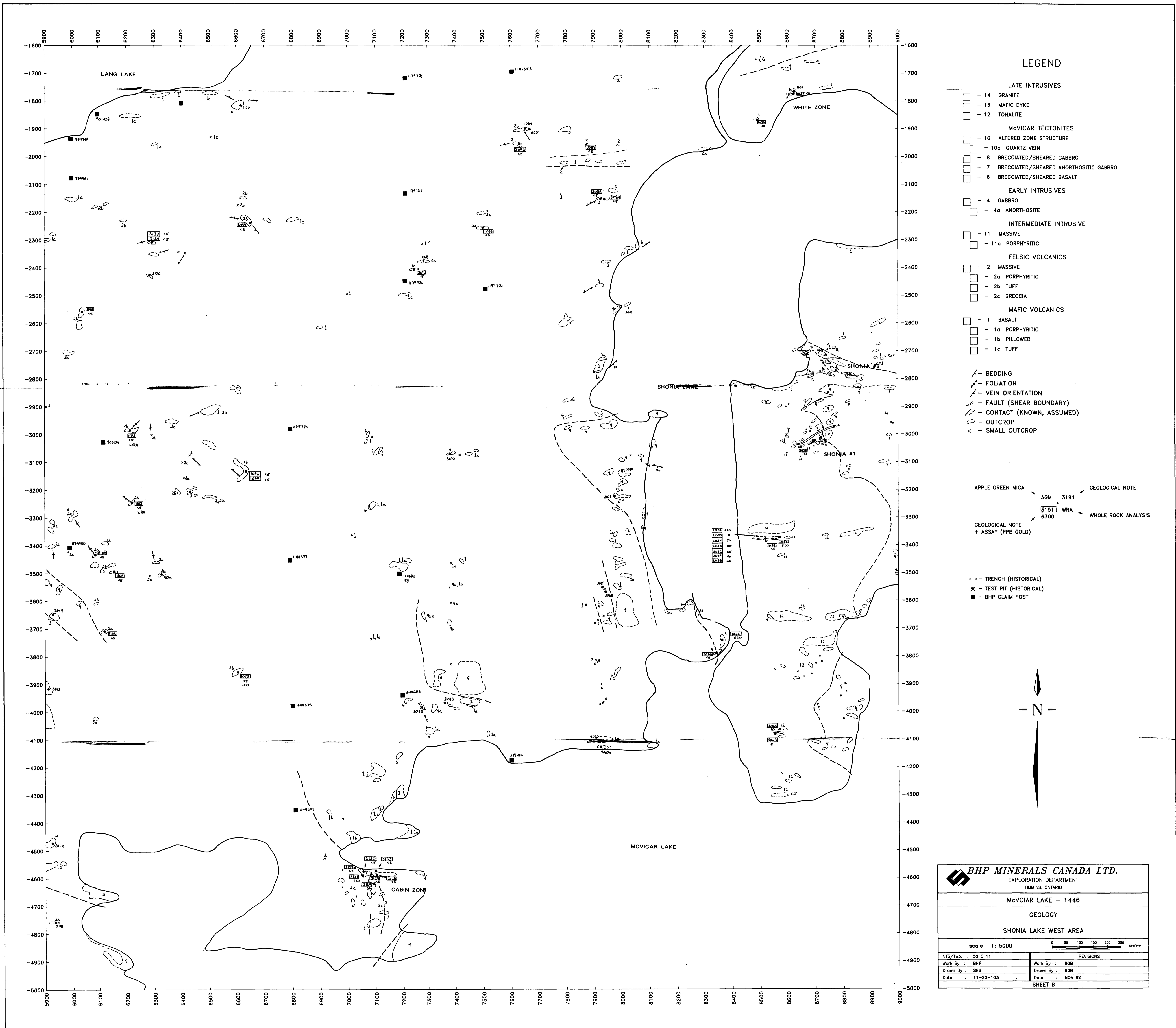
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ML-92-84	8346	0.92	30.00
ML-92-84	8347	1.22	10.00
ML-92-84	8348	0.92	15.00
ML-92-84	8349	1.22	2.50
ML-92-84	8350	0.92	2.50
ML-92-84	8351	0.91	2.50
ML-92-84	8352	0.92	2.50
ML-92-85	8353	1.20	45.00
ML-92-85	8354	1.20	25.00
ML-92-85	8355	1.20	10.00
ML-92-85	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

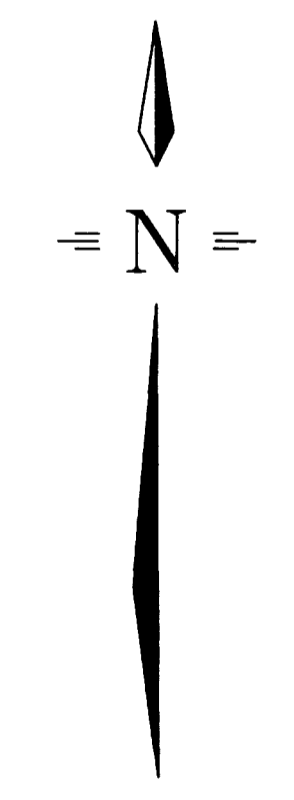
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8929	74.13	12.33	3.22	1.33	5.17	1.44	0.23	0.04	1.05	99.12
8930	75.41	12.33	3.24	1.14	4.77	2.48	0.23	0.04	1.01	100.82
8931	73.98	12.13	3.45	1.30	4.86	2.54	0.25	0.06	1.11	99.87
8932	73.77	11.89	3.01	1.47	5.13	1.52	0.23	0.04	1.04	98.26
8265	73.28	11.98	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



LEGEND

- LATE INTRUSIVES**
- - 14 GRANITE
 - - 13 MAFIC DYKE
 - - 12 TONALITE
- McVICAR TECTONITES**
- - 10 ALTERED ZONE STRUCTURE
 - - 10a QUARTZ VEIN
 - - 8 BRECCIATED/SHEARED GABBRO
 - - 7 BRECCIATED/SHEARED ANORTHOSITIC GABBRO
 - - 6 BRECCIATED/SHEARED BASALT
- EARLY INTRUSIVES**
- - 4 GABBRO
 - - 4a ANORTHOSITE
- INTERMEDIATE INTRUSIVE**
- - 11 MASSIVE
 - - 11a PORPHYRITIC
- FELSIC VOLCANICS**
- - 2 MASSIVE
 - - 2a PORPHYRITIC
 - - 2b TUFF
 - - 2c BRECCIA
- MAFIC VOLCANICS**
- - 1 BASALT
 - - 1a PORPHYRITIC
 - - 1b PILLOWED
 - - 1c TUFF
- BEDDING
 — FOLIATION
 — VEIN ORIENTATION
 — FAULT (SHEAR BOUNDARY)
 — CONTACT (KNOWN, ASSUMED)
 ○ — OUTCROP
 x — SMALL OUTCROP

- AGM 3191 — GEOLOGICAL NOTE
 WRA 6300 — WHOLE ROCK ANALYSIS
 + ASSAY (PPB GOLD)
- TRENCH (HISTORICAL)
 * — TEST PIT (HISTORICAL)
 ■ — BHP CLAIM POST



BHP MINERALS CANADA LTD.
 EXPLORATION DEPARTMENT
 TIMMINS, ONTARIO

McVICAR LAKE - 1446

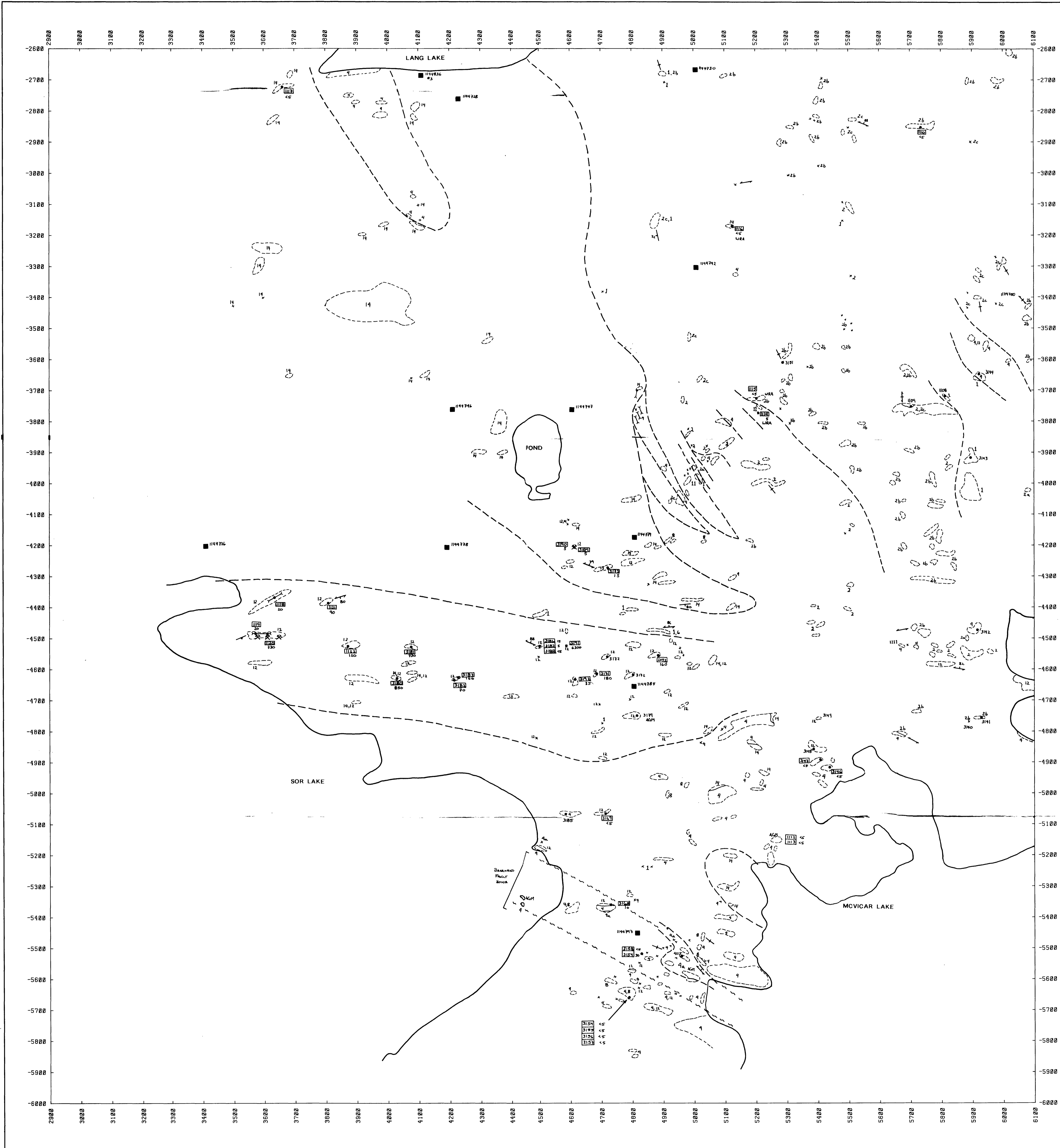
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 SHONIA LAKE WEST AREA

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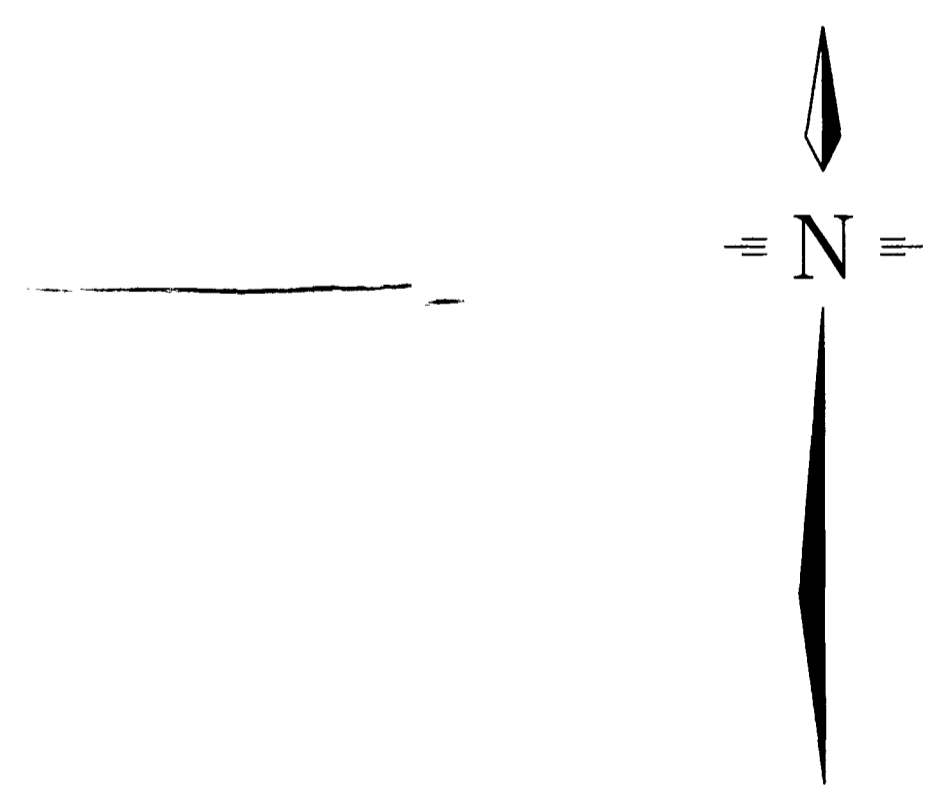
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SHEET B

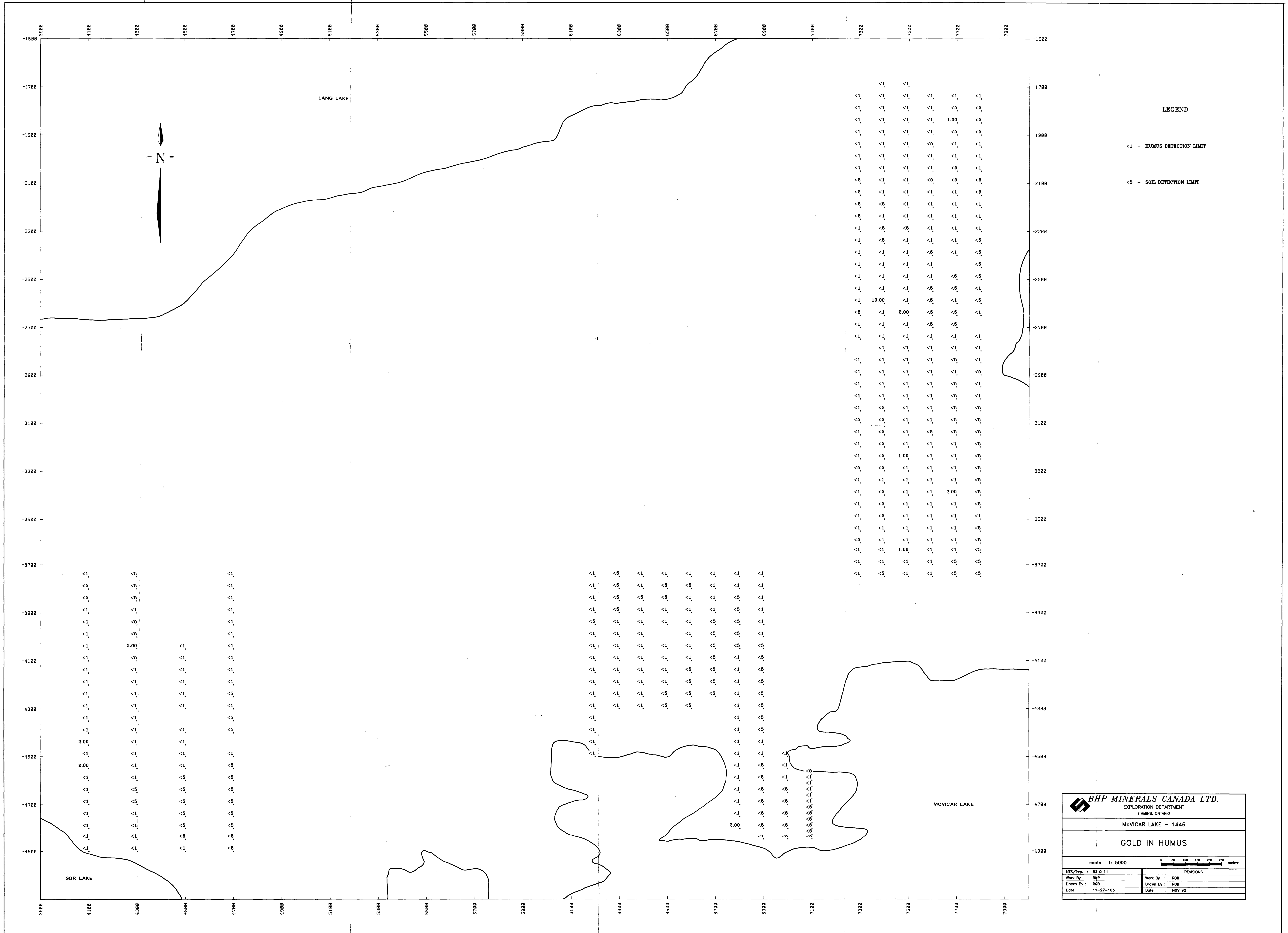




- LEGEND**
- LATE INTRUSIVES**
- - 14 GRANITE
 - - 13 MAFIC DYKE
 - - 12 TONALITE
- McVICAR TECTONITES**
- - 10 ALTERED ZONE STRUCTURE
 - - 10a QUARTZ VEIN
 - - 8 BRECCIATED/SHEARED GABBRO
 - - 7 BRECCIATED/SHEARED ANORTHOSITIC GABBRO
 - - 6 BRECCIATED/SHEARED BASALT
- EARLY INTRUSIVES**
- - 4 GABBRO
 - - 4a ANORTHOSITE
- INTERMEDIATE INTRUSIVE**
- - 11 MASSIVE
 - - 11a PORPHYRITIC
- FELSIC VOLCANICS**
- - 2 MASSIVE
 - - 2a PORPHYRITIC
 - - 2b TUFF
 - - 2c BRECCIA
- MAFIC VOLCANICS**
- - 1 BASALT
 - - 1a PORPHYRITIC
 - - 1b PILLOWED
 - - 1c TUFF
- - - BEDDING
 - - - FOLIATION
 - - - VEIN ORIENTATION
 - - - FAULT (SHEAR BOUNDARY)
 - - - CONTACT (KNOWN, ASSUMED)
 ○ - OUTCROP
 x - SMALL OUTCROP
- APPLE GREEN MICA AGM 3191 GEOLOGICAL NOTE
 WRA 6300 WHOLE ROCK ANALYSIS
 GEOLOGICAL NOTE
 + ASSAY (PPB GOLD)
- x - TRENCH (HISTORICAL)
 * - TEST PIT (HISTORICAL)
 ■ - BHP CLAIM POST



BHP MINERALS CANADA LTD. EXPLORATION DEPARTMENT TIMMINS, ONTARIO	
McVICAR LAKE - 1446	
GEOLOGY	
SOR LAKE AREA	
scale 1: 5000	
NTS/Top. : 52 O 11	REVISIONS
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Drawn By : SES	Drawn By : RGB
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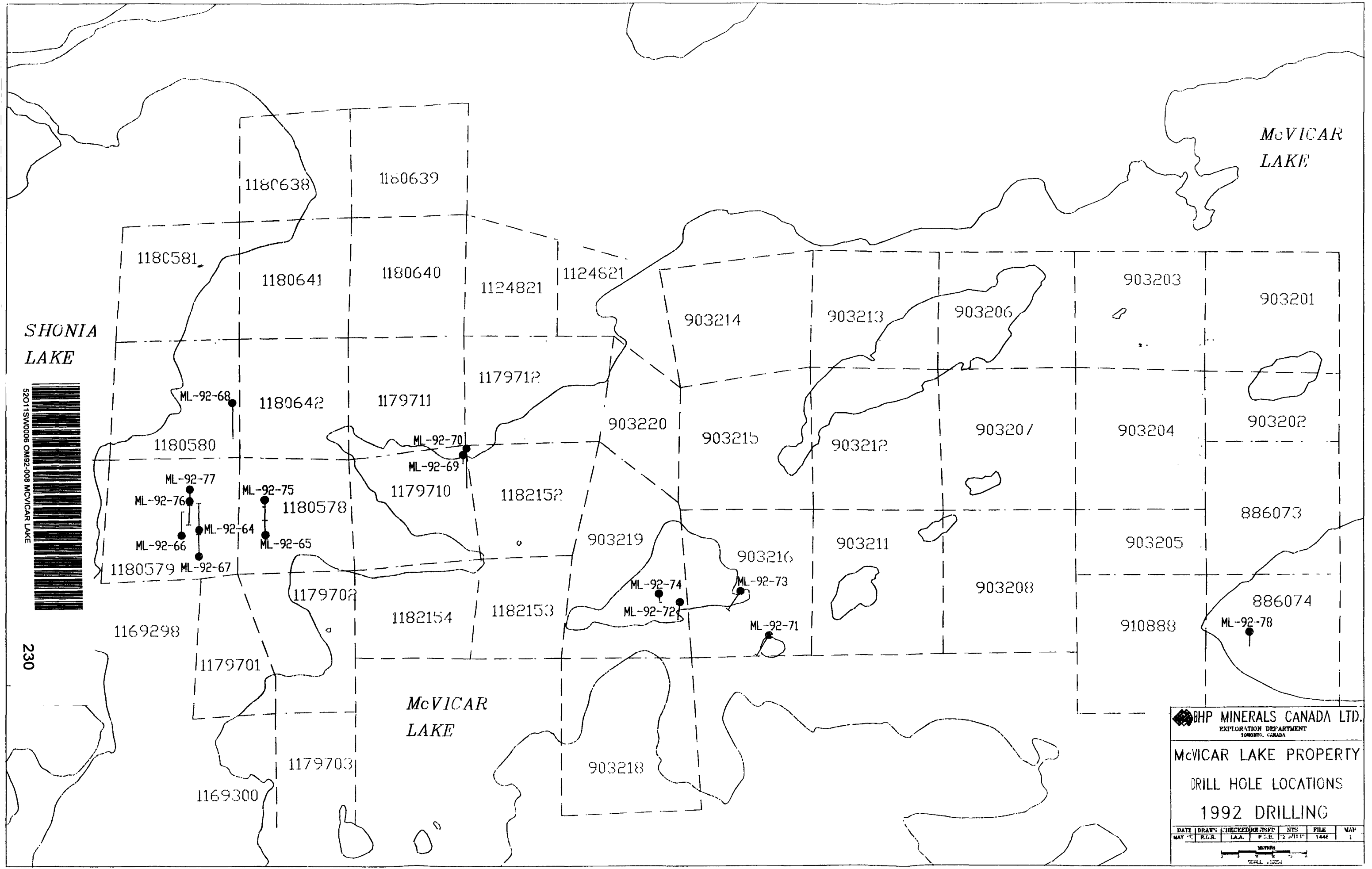
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<5 - SOIL DETECTION LIMIT

BHP MINERALS CANADA LTD. EXPLORATION DEPARTMENT TIMMINS, ONTARIO	
McVICAR LAKE - 1446	
GOLD IN HUMUS	
scale 1: 5000	
NTS/Exp. : 22 0 11	REVISIONS
Work By : BHP	Work By : RGB
Drawn By : RGB	Drawn By : RGB
Date : 11-27-103	Date : NOV 92





SHONIA LAKE

McVICAR LAKE

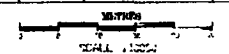


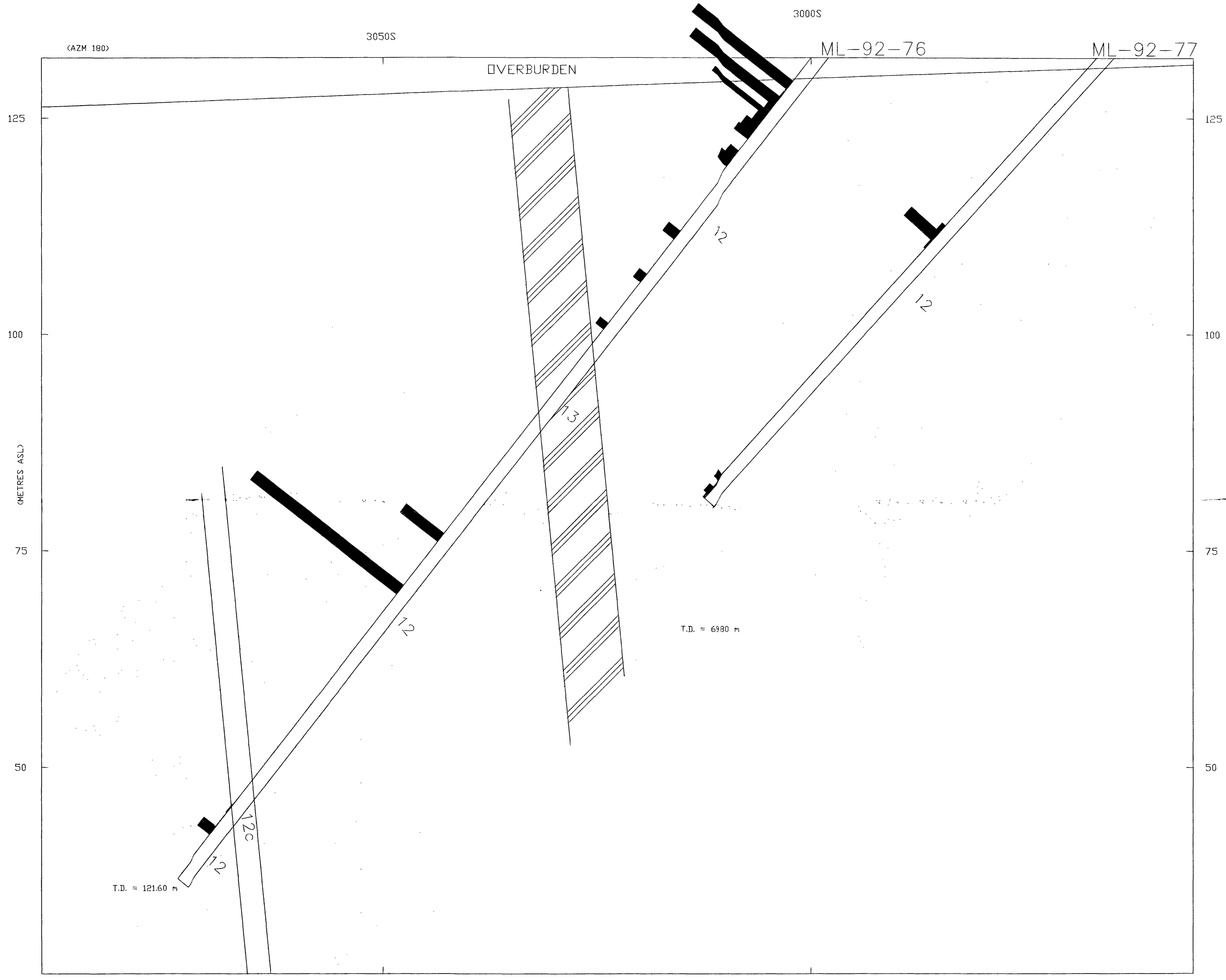
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BHP MINERALS CANADA LTD.
 EXPLORATION DEPARTMENT
 TORONTO, CANADA

McVICAR LAKE PROPERTY
 DRILL HOLE LOCATIONS
 1992 DRILLING

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.R.	L.A.A.	P.S.H.	72/1111	144E	1





LEGEND

LATE INTRUSIVES

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

McVICAR TECTONITES

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

EARLY INTRUSIVE

- 4 - GABBRO
 - 4a - ANORTHESITIC
 - 4b - ANORTHESITE
 - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - PILLOWED
 - 1c - COARSE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT

— DRILL HOLE

■ GOLD HISTOGRAMS
1 cm = 500 ppb

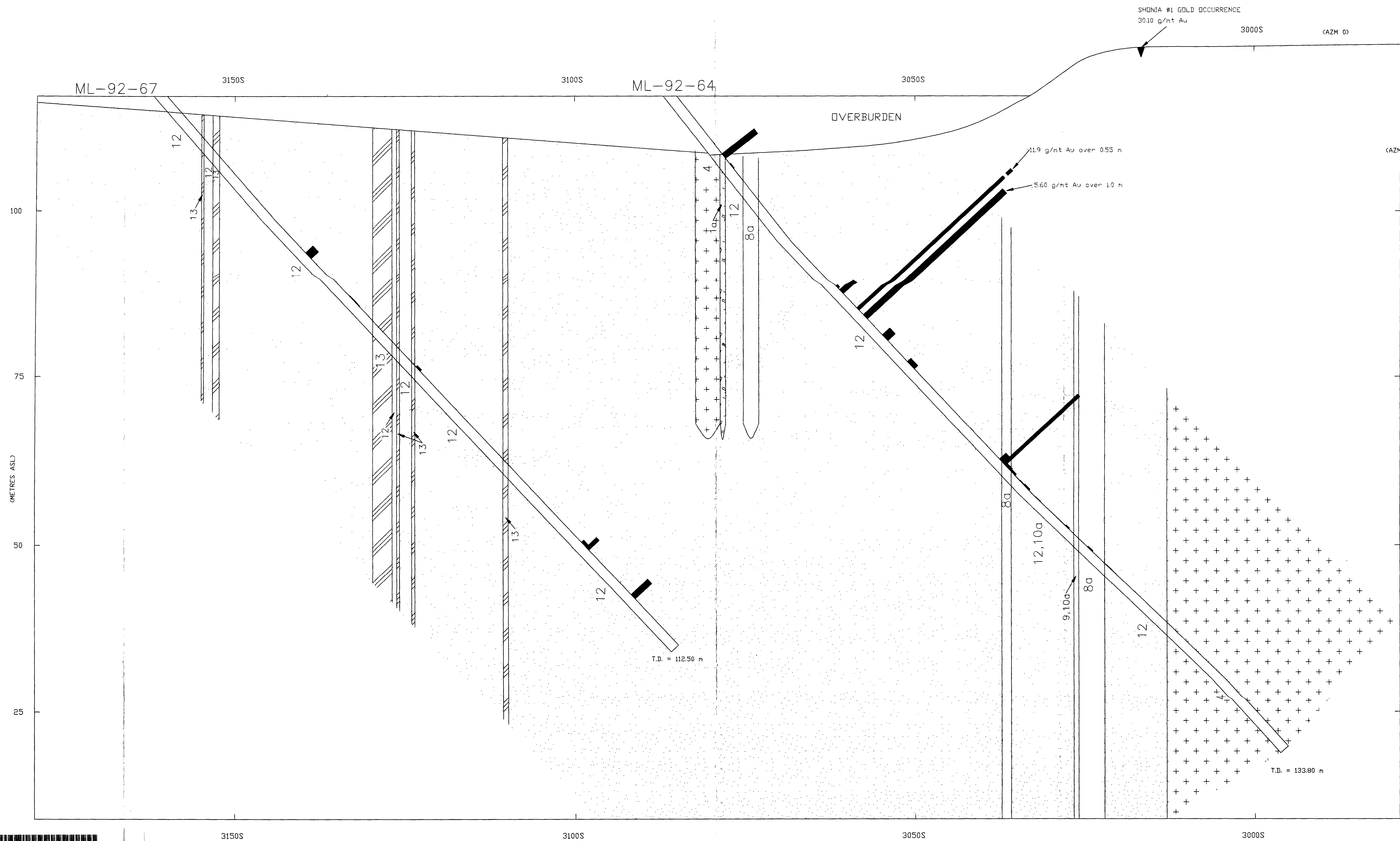
BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO, CANADA

McVICAR LAKE PROPERTY
SECTION L 8673
GEOLOGY, AU
DDH ML-92-76,77

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.			82 0/11	1446	— of —

1:250 — METRES





SHONIA #1 GOLD OCCURRENCE
30.10 g/nt Au

OVERBURDEN

11.9 g/nt Au over 0.55 m
5.60 g/nt Au over 1.0 m

T.D. = 112.50 m

T.D. = 133.80 m

LEGEND	
LATE INTRUSIVES	
14 - GRANITE	
13 - 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 GULCH	
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	
5 - BRECCIATED PORPHYRITIC BASALT	
5a - SHEARED PORPHYRITIC BASALT	
EARLY INTRUSIVE	
4 - GABBRO	
4a - ANORTHOSITIC	
4b - ANORTHOSITE	
4c - QUARTZ GABBRO	
SEDIMENTS	
3a - IRONSTONE (OXIDIZED)	
3b - MUDSTONE	
FELSIC VOLCANICS	
2 - FELSIC VOLCANICS	
MAFIC VOLCANICS	
1 - BASALT	
1a - PORPHYRITIC	
1b - FLOWED	
1c - COARSE FLOW	
1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT	
DRILL HOLE GOLD HISTOGRAMS 1 cm = 500 g/nt	

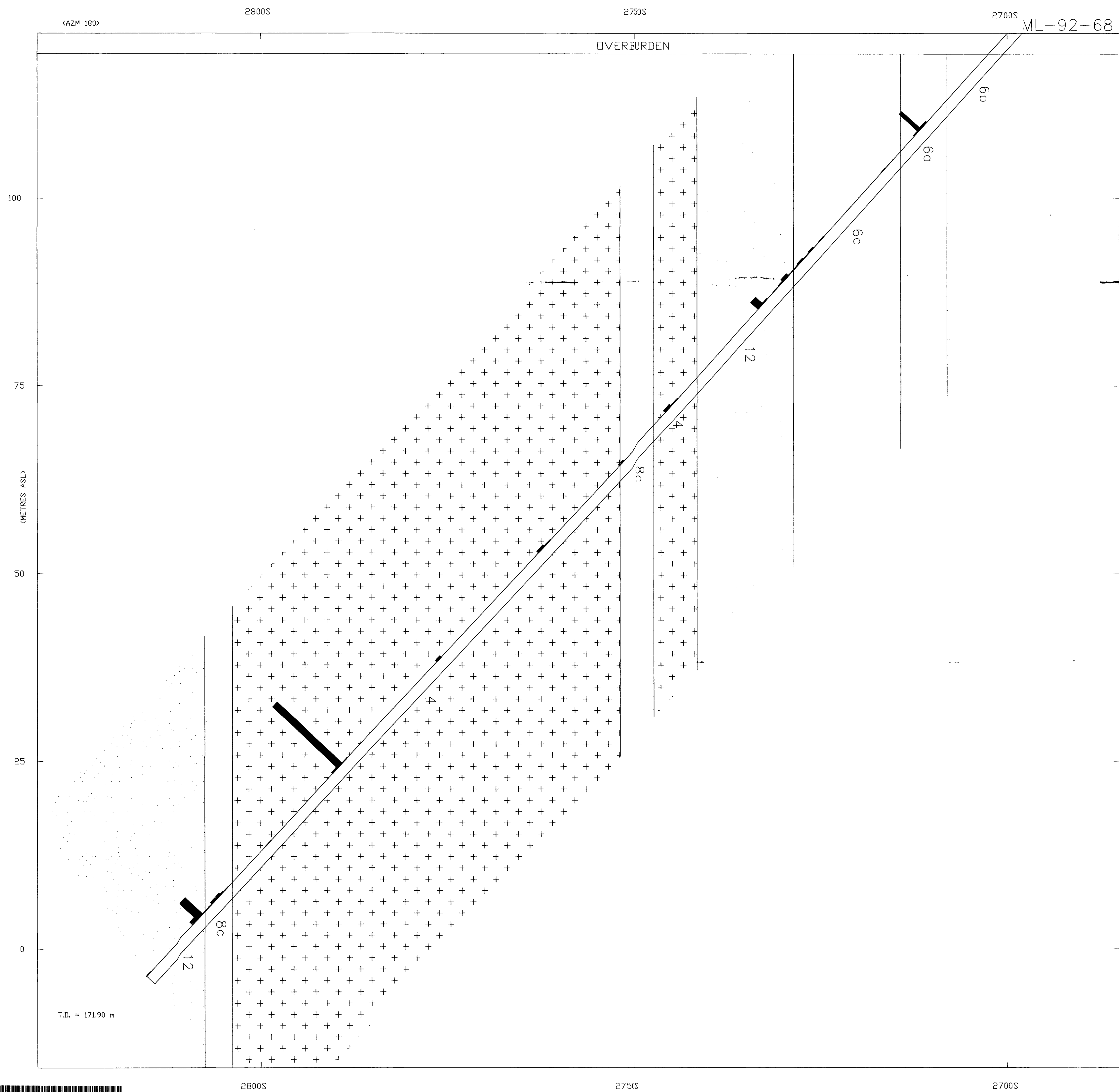
SHONIA #1 OCCURRENCE

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

McVICAR LAKE PROPERTY
SECTION L 8700
GEOLOGY, AU
DDH ML-92-64,67

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '82	P.G.B.			32 G/11	1446	07

1:250 - METRES



LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 13 - 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 GEDAGE
- 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 - SERICITIC SCHIST
- 5 - BRECCIATED PORPHYRITIC BASALT
 - 5a - SHEARED PORPHYRITIC BASALT

EARLY INTRUSIVE

- 4 - GABBRO
 - 4a - ANORTHOSITIC
 - 4b - ANORTHOSITIC
 - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - FLOWLED
 - 1c - COARSE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 500 ppb

SHONIA #6 OCCURRENCE

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

McVICAR LAKE PROPERTY
SECTION L 8800
GEOLOGY, AU
DDH ML-92-68

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	P.G.B.			52	9/11	1448

1:250 - METRES



3100S

3000S

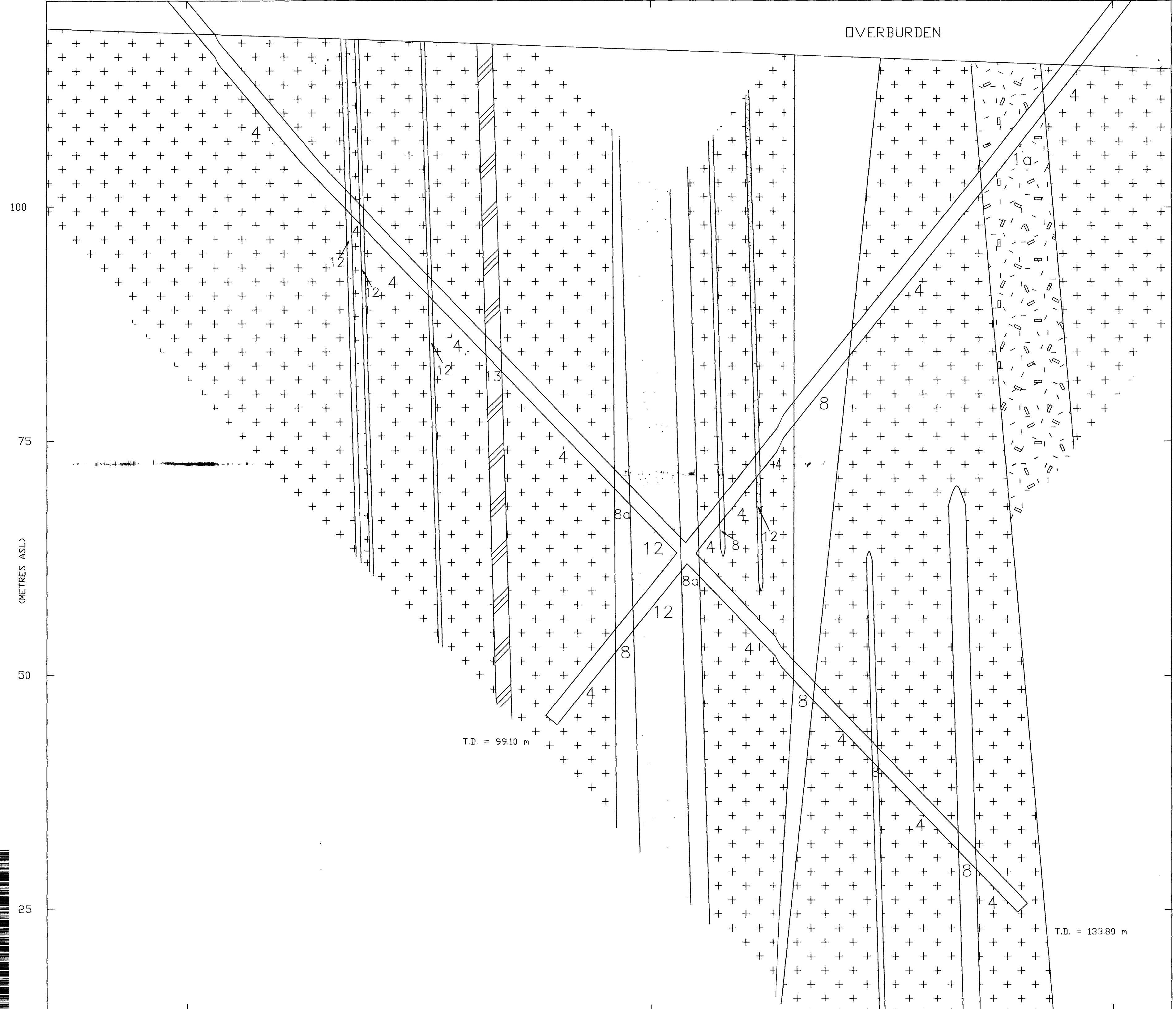
3050S

ML-92-65

ML-92-75

(AZM 0)

OVERBURDEN



LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 13 - 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 GEAR
- 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 - SERICITIC SCHIST
- 5 - BRECCIATED PORPHYRITIC BASALT
 - 5a - SHEARED PORPHYRITIC BASALT

EARLY INTRUSIVE

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

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - PILLOWED
 - 1c - COARSE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT

— DRILL HOLE

— GOLD HISTOGRAMS
1 cm = 500 ppb

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

McVICAR LAKE PROPERTY
SECTION L 8900
GEOLOGY, AU
DDH ML-92-65,75

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.			52	0/11	1446

1:250 - METRES



3100S

3050S

3000S

(AZM 180)

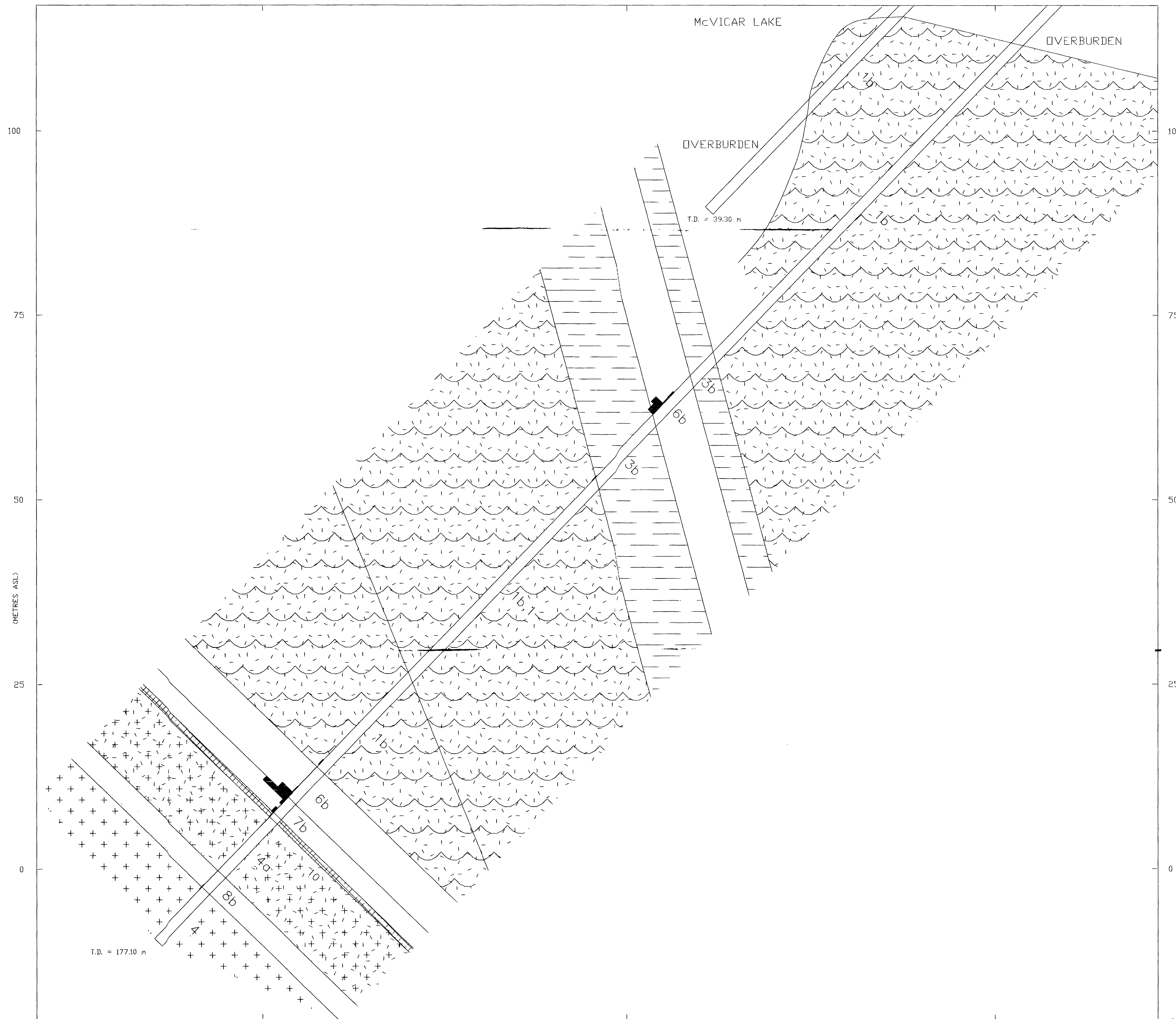
3000S

2950S

ML-92-69

2900S

ML-92-70



LEGEND

LATE INTRUSIVES

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

McVICAR TECTONITES

- 10 - NORTH ZONE GABBRO
 - 10a - QUARTZ VEIN
- 9 - FAULT GEBBRO
- 8 - BRECCIATED/SHEARED GABBRO
 - 8a - SHEARED GABBRO
 - 8b - BRECCIATED GABBRO
 - 8c - SERPENTINE SCHIST
 - 8d - INTENSIVELY SILICIFIED MASSIVE GABBRO
- 7 - BRECCIATED/SHEARED ANORTHOSITIC GABBRO
 - 7a - SHEARED ANORTHOSITIC GABBRO
 - 7b - BRECCIATED ANORTHOSITIC GABBRO
 - 7c - SERPENTINE SCHIST
 - 7d - INTENSIVELY SILICIFIED MASSIVE ANORTHOSITIC GABBRO
- 6 - BRECCIATED/SHEARED BASALT
 - 6a - SHEARED BASALT
 - 6b - BRECCIATED BASALT
 - 6c - SERPENTINE SCHIST
- 5 - BRECCIATED PORPHYRYLIC BASALT
 - 5a - SHEARED PORPHYRYLIC BASALT

EARLY INTRUSIVE

- 4 - GABBRO
 - 4a - ANORTHOSITIC
 - 4b - ANORTHOSITIC
 - 4c - QUARTZ GABBRO

SEDIMENTS

- 3a - IRONSTONE CONGLOMERATE
- 3b - IRONSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRYLIC
 - 1b - FILLWATER
 - 1c - OTARSI FILLWATER
 - 1d - FILLWATER BRECCIA/INTERFLOW SEDIMENT

DRILL HOLE
 GOLD HISTOGRAMS
 1 CM = 500 METRES

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

McVICAR LAKE PROPERTY
SECTION L 9500
GEOLOGY, AU
DDH ML-92-69,70

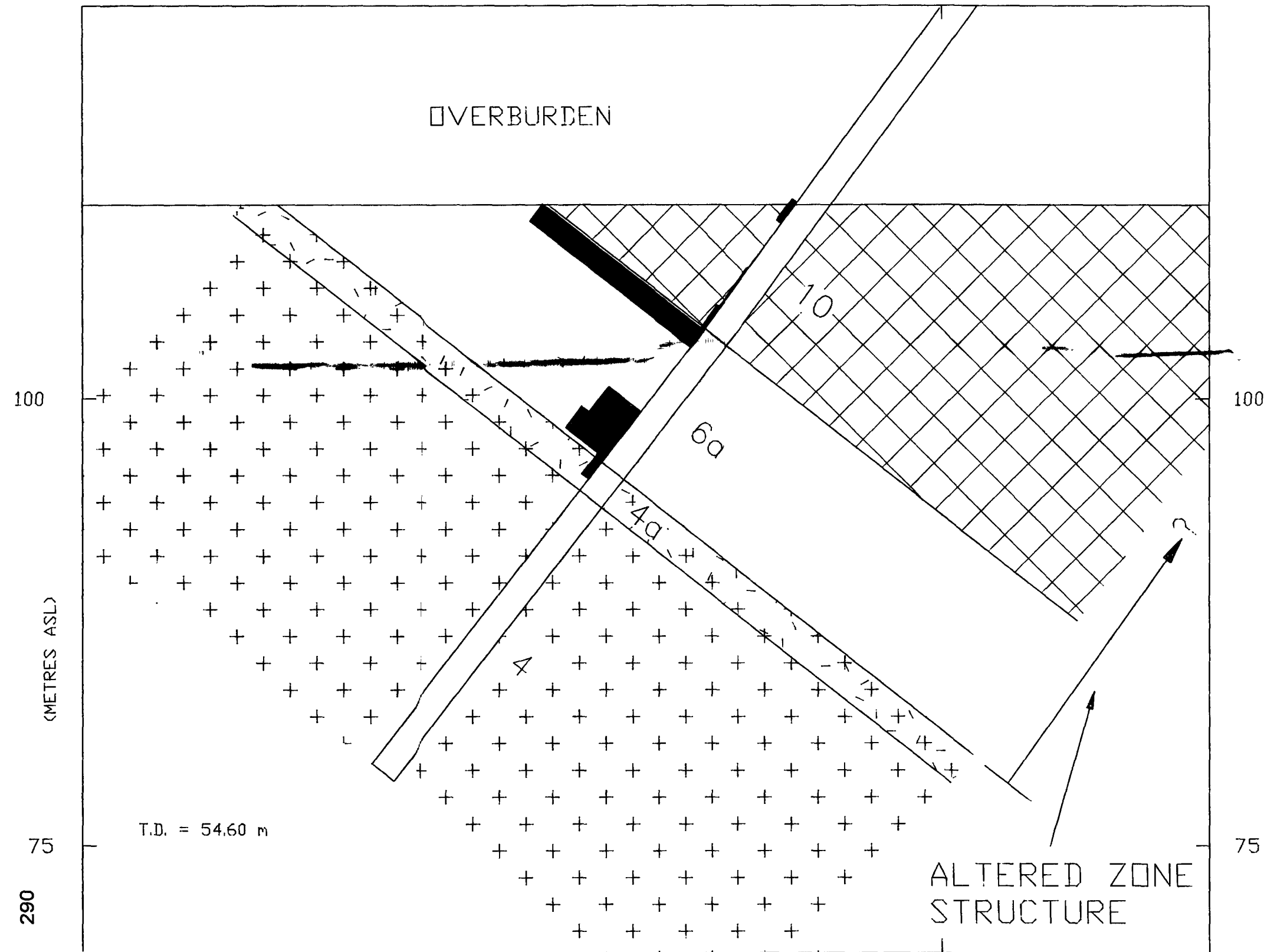
DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.				52 0/11	1446

1:250 - METRES



(AZM 180)

3300S ML-92-74



APPLE ISLAND AREA

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

McVICAR LAKE PROPERTY
SECTION L 10150
GEOLOGY, AU
DDH ML-92-74

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.			52 0/11	1446	of

1:250 - METRES

LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 13 - 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 ZONE
- 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 - SERICITIC SCHIST
- 5 - BRECCIATED PORPHYRITIC BASALT
 - 5a - SHEARED PORPHYRITIC BASALT

EARLY INTRUSIVE

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

SEDIMENTS

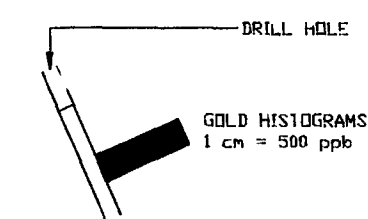
- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

FELSIC VOLCANICS

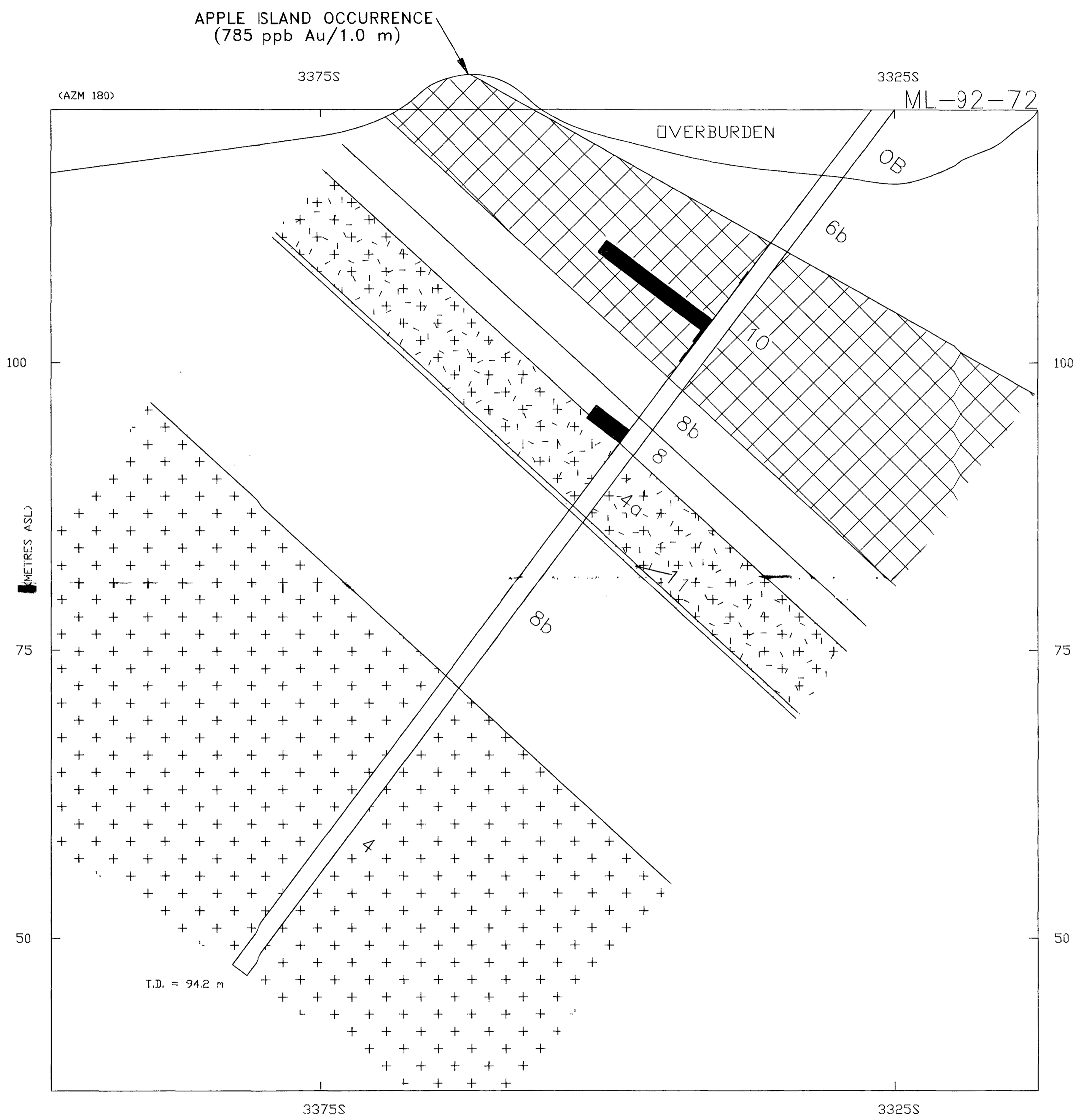
- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - PILLOWED
 - 1c - CLARIF FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT



290



LEGEND

LATE INTRUSIVES

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

McVICAR TECTONITES

- 10 - NDTZ ZONE (ALTERED)
 - 10a - QUARTZ VEIN
- 9 - FAULT GORGE
- 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 - SERICITIC SCHIST
- 5 - BRECCIATED PORPHYRITIC BASALT
 - 5a - SHEARED PORPHYRITIC BASALT

EARLY INTRUSIVE

- 4 - GABBRO
 - 4a - ANORTHOSITIC
 - 4b - ANORTHOSITIC
 - 4c - QUARTZ GABBRO

SEDIMENTS

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

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - PILLOWED
 - 1c - CHARGE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 500 ppb

APPLE ISLAND OCCURRENCE

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

McVICAR LAKE PROPERTY
SECTION L 10200
GEOLOGY, AU
DDH ML-92-72

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.			52 0/11	1446	of

1:250 - METRES



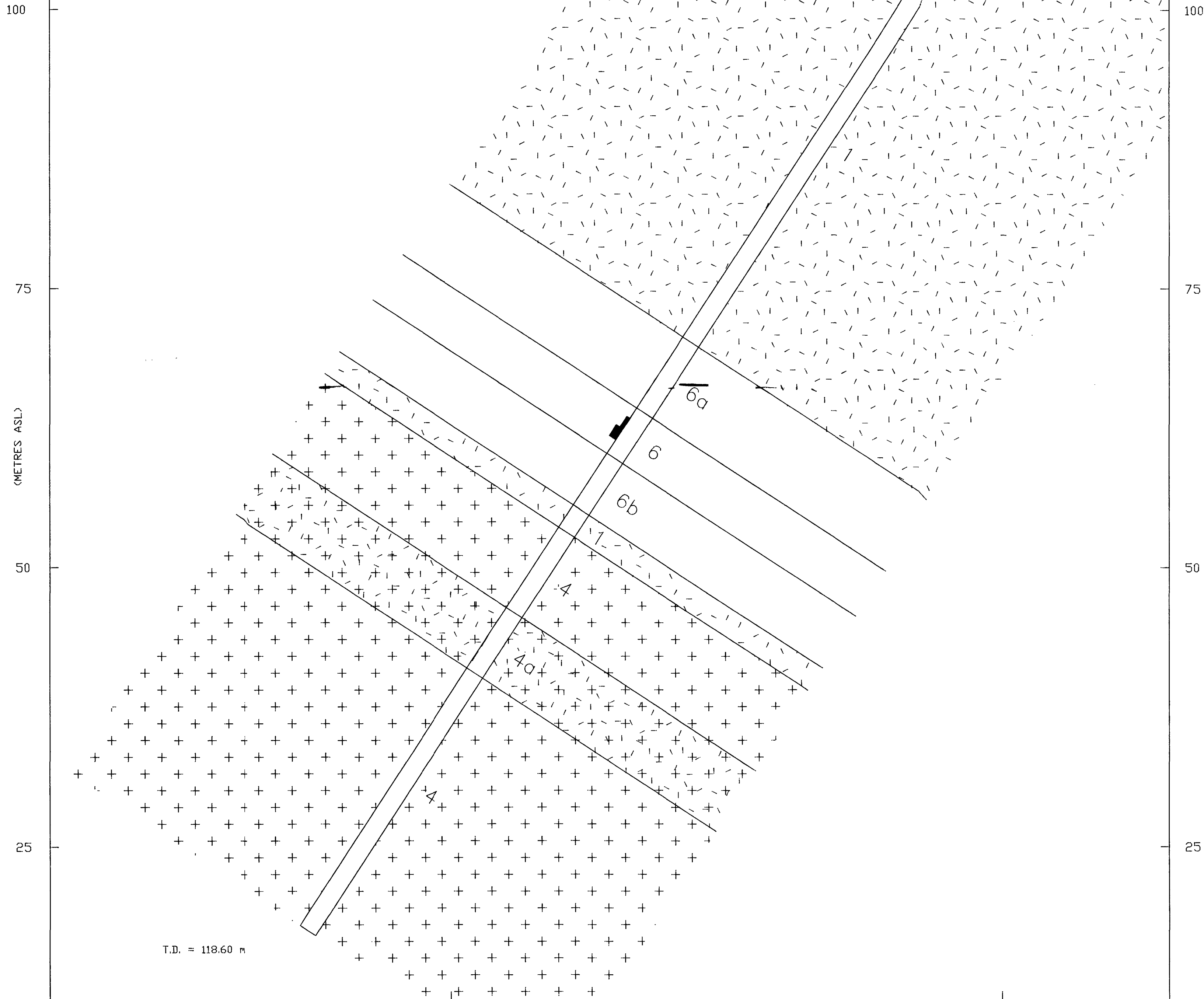
(AZM 210)

3350S

3300S

ML-92-73

OVERBURDEN



LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 13 - 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
- 5 - BRECCIATED PORPHYRITIC BASALT
 - 5a - SHEARED PORPHYRITIC BASALT

EARLY INTRUSIVE

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

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

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

DRILL HOLE

GOLD HISTOGRAMS
1 cm = 500 ppb

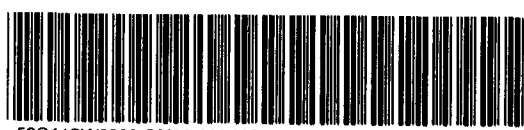
APPLE ISLAND OCCURRENCE

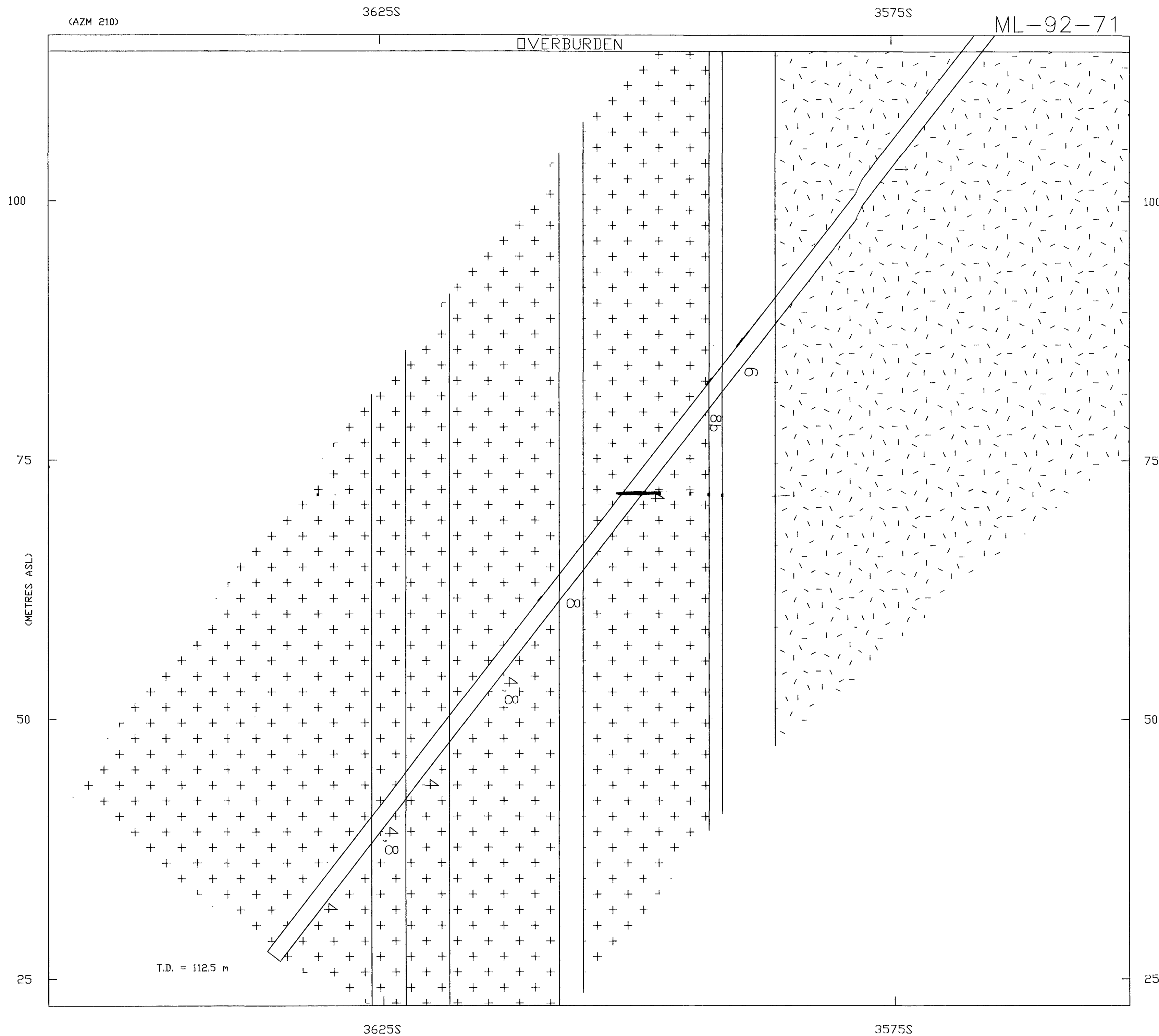
BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO, CANADA

McVICAR LAKE PROPERTY
SECTION L 10370
(OFF SECTION)
GEOLOGY, AU
DDH ML-92-73

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.			52 0/11	1446	— of —

1:250 - METRES





LEGEND

LATE INTRUSIVES

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

McVICAR TECTONITES

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

EARLY INTRUSIVE

- 4 - GABBRD
 - 4a - ANORTHOSITIC
 - 4b - ANORTHOSITIC
 - 4c - QUARTZ GABBRD

SEDIMENTS

- 3a - IRONSTONE (OXIDE)
- 3b - MUDSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANICS

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - PILLOWED
 - 1c - COARSE FLOW
 - 1d - FLOW TOP BRECCIA/INTERFLOW SEDIMENT

— DRILL HOLE

GOLD HISTOGRAMS
1 cm = 500 ppb

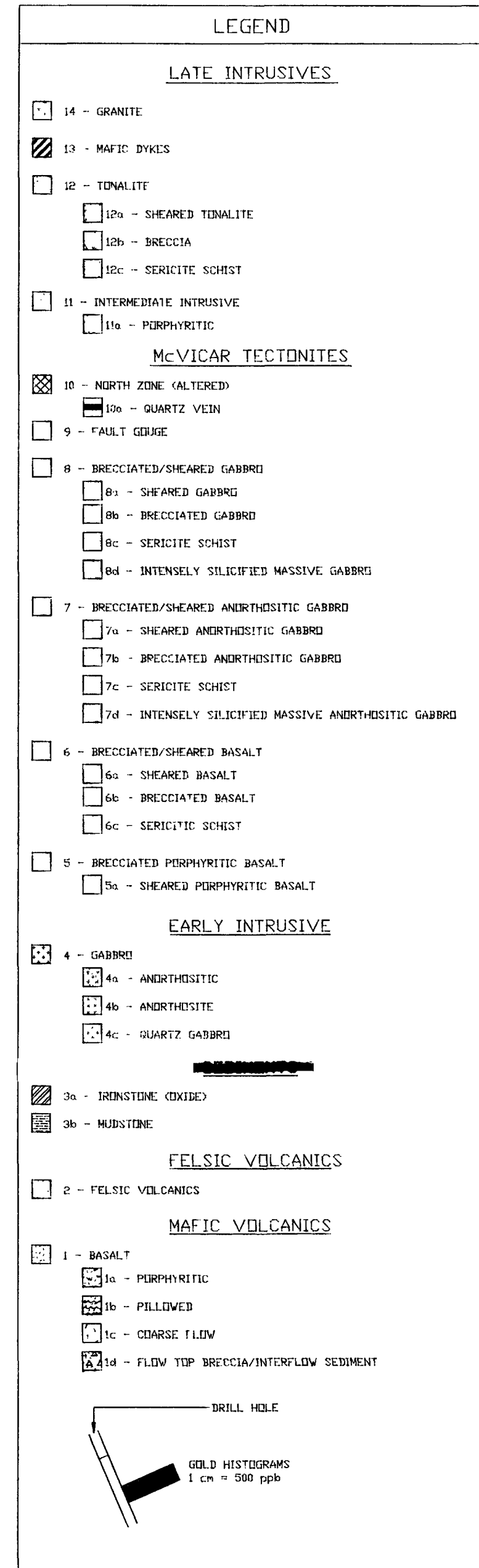
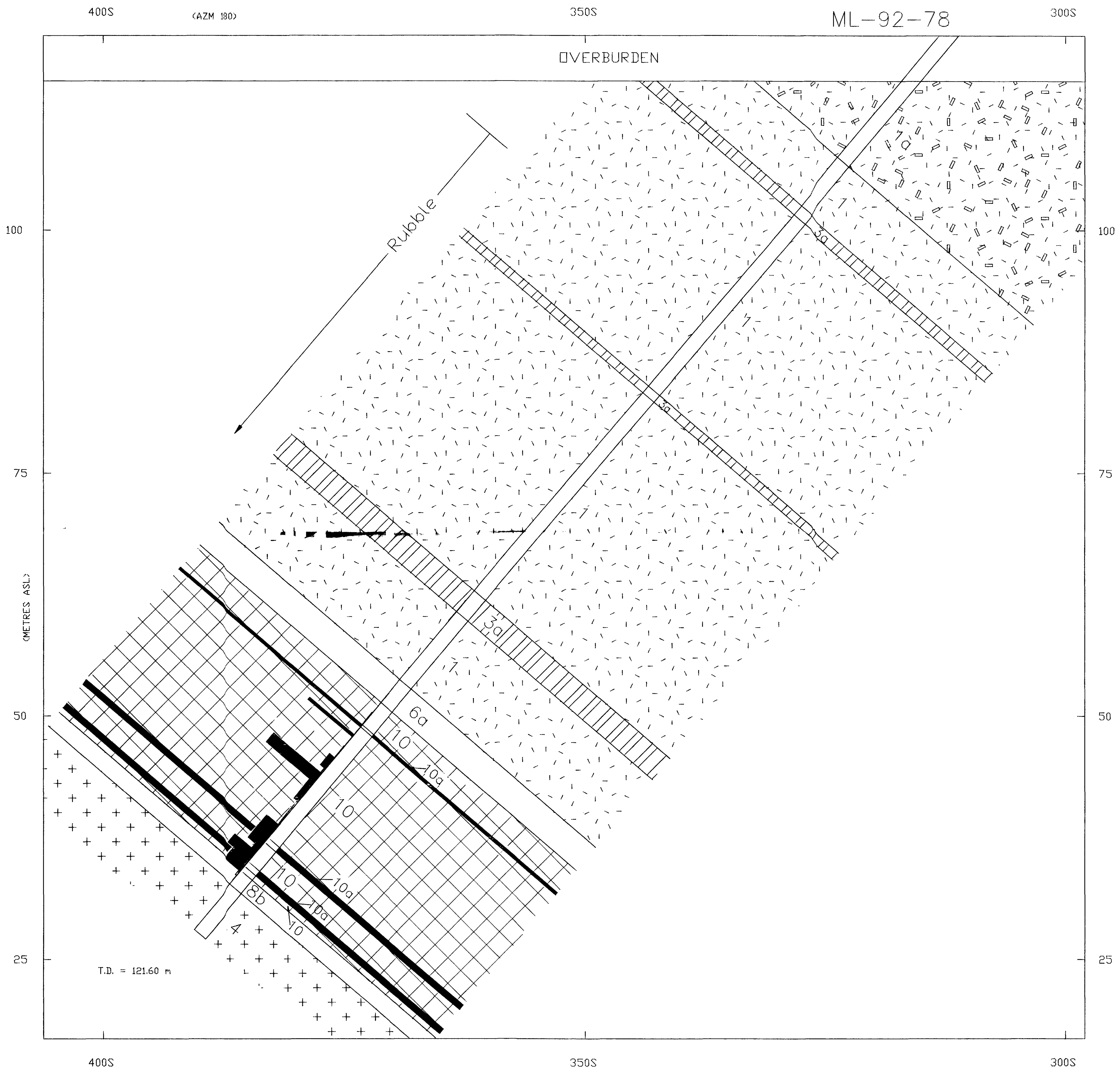
BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO, CANADA

McVICAR LAKE PROPERTY
SECTION L 10467
GEOLOGY, AU
DDH ML-92-71

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.			52	0/11	1446

1:250 - METRES





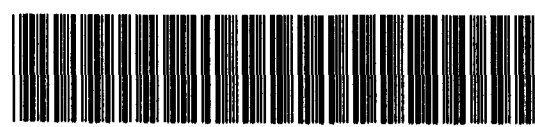
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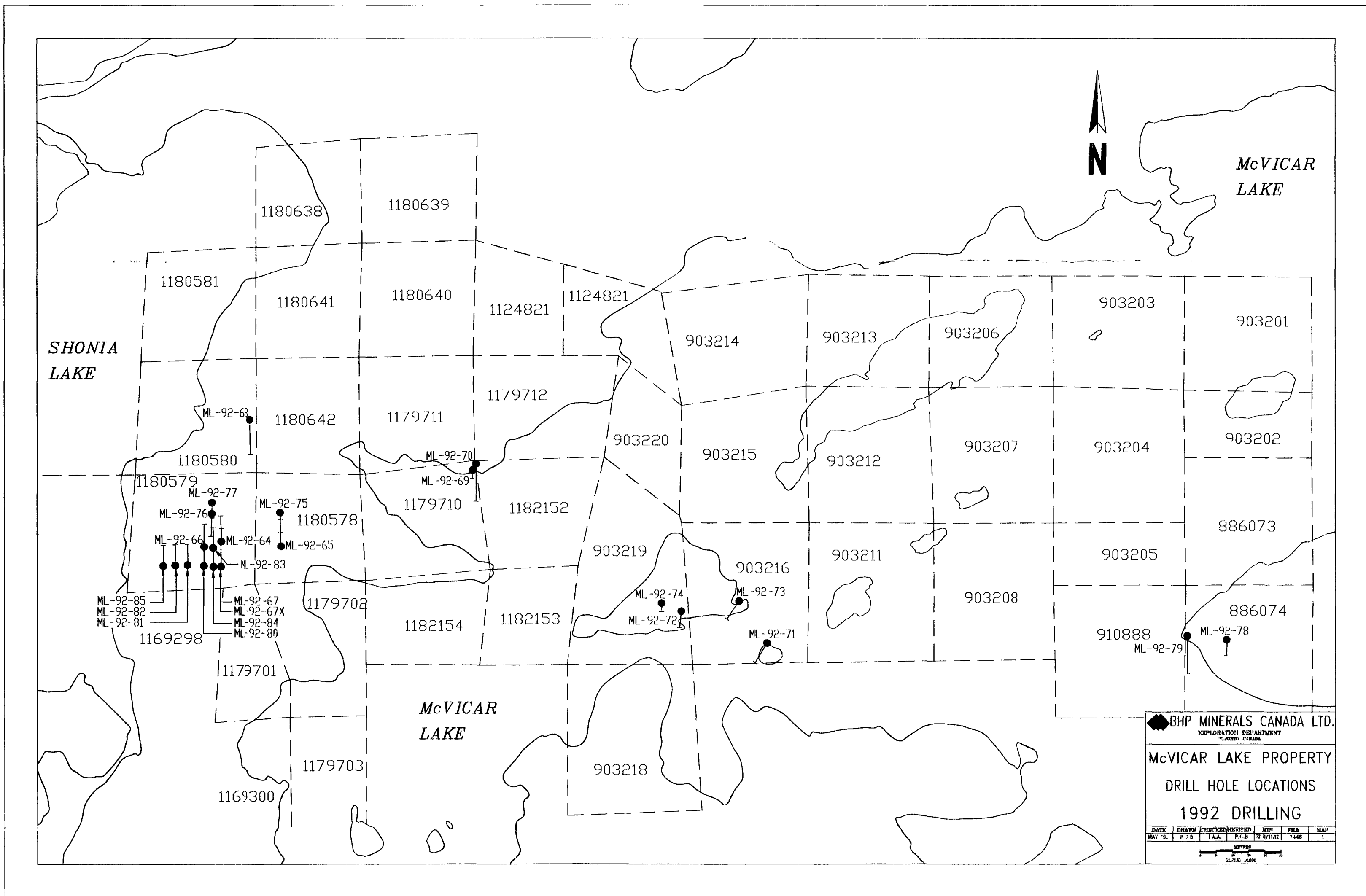
BHP MINERALS CANADA LTD.
EXPLORATION DEPARTMENT
TORONTO, ONTARIO, CANADA

McVICAR LAKE PROPERTY
SECTION L 1000
GEOLOGY, AU
DDH ML-92-78

DATE	DRAWN	CHECKED	REVISED	NTS	FILE	MAP
MAY '92	R.G.B.			52 0/11	1446	___ of ___

1:250 - METRES





BHP MINERALS CANADA LTD.
 EXPLORATION DEPARTMENT
 TORONTO, CANADA

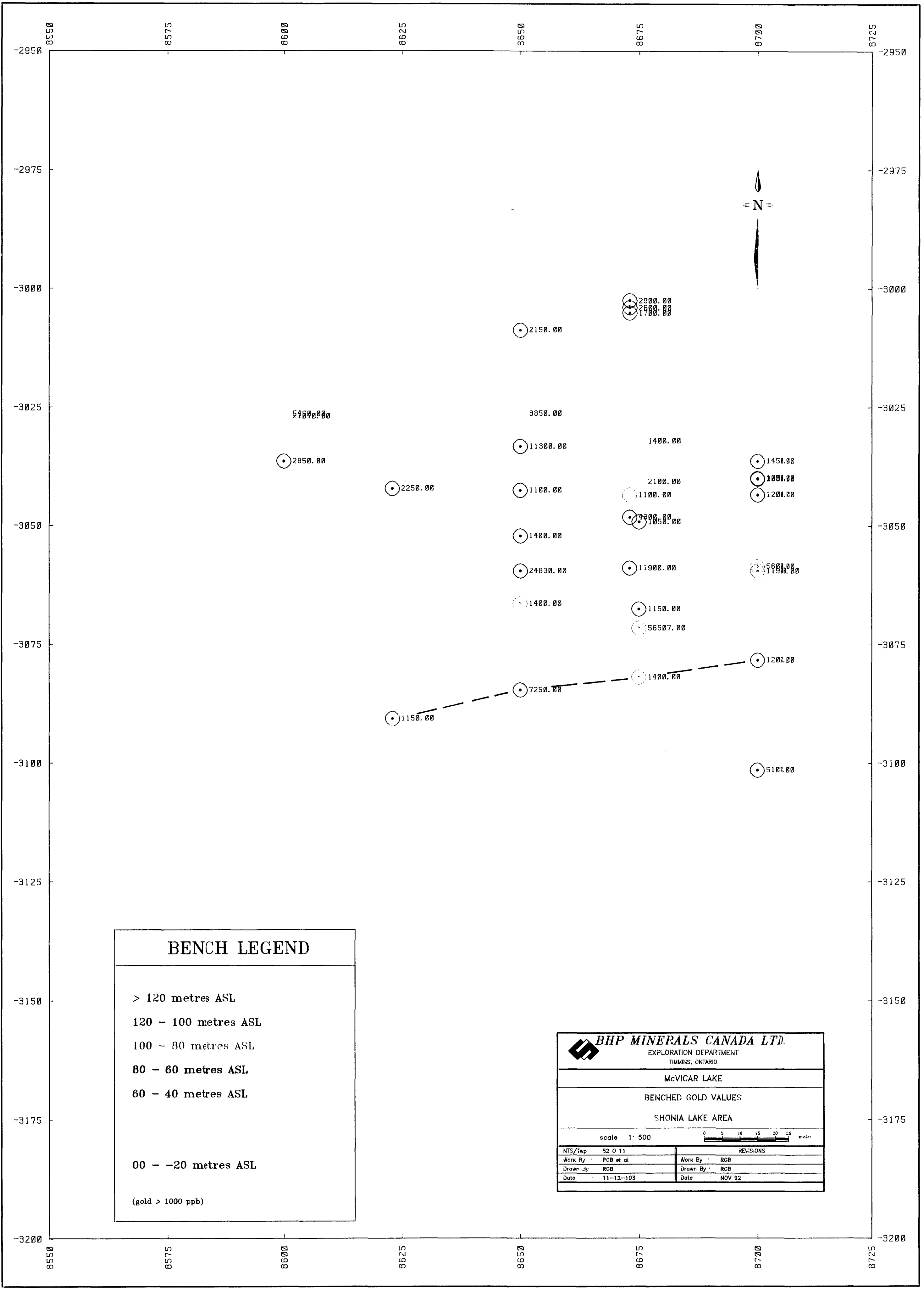
McVICAR LAKE PROPERTY
DRILL HOLE LOCATIONS
1992 DRILLING

DATE	DRAWN	CHECKED	REVISION	APP.	FILE	MAP
MAY '92	P.S.B.	J.A.A.	P.C.S.	12/3/11/92	1-448	1

SCALE: 1:5000



52011SW0006 0M92-008 McVICAR LAKE



BENCH LEGEND	
> 120 metres ASL	
120 - 100 metres ASL	
100 - 80 metres ASL	
80 - 60 metres ASL	
60 - 40 metres ASL	
00 - -20 metres ASL	
(gold > 1000 ppb)	

BHP MINERALS CANADA LTD.	
EXPLORATION DEPARTMENT TIMMINS, ONTARIO	
McVICAR LAKE	
BENCHED GOLD VALUES	
SHONIA LAKE AREA	
scale 1:500	
REVISIONS	
NTS/Twp 52 0 11	Work By RGB
Drawn By RGB	Drawn By RGB
Date 11-12-103	Date NOV 92

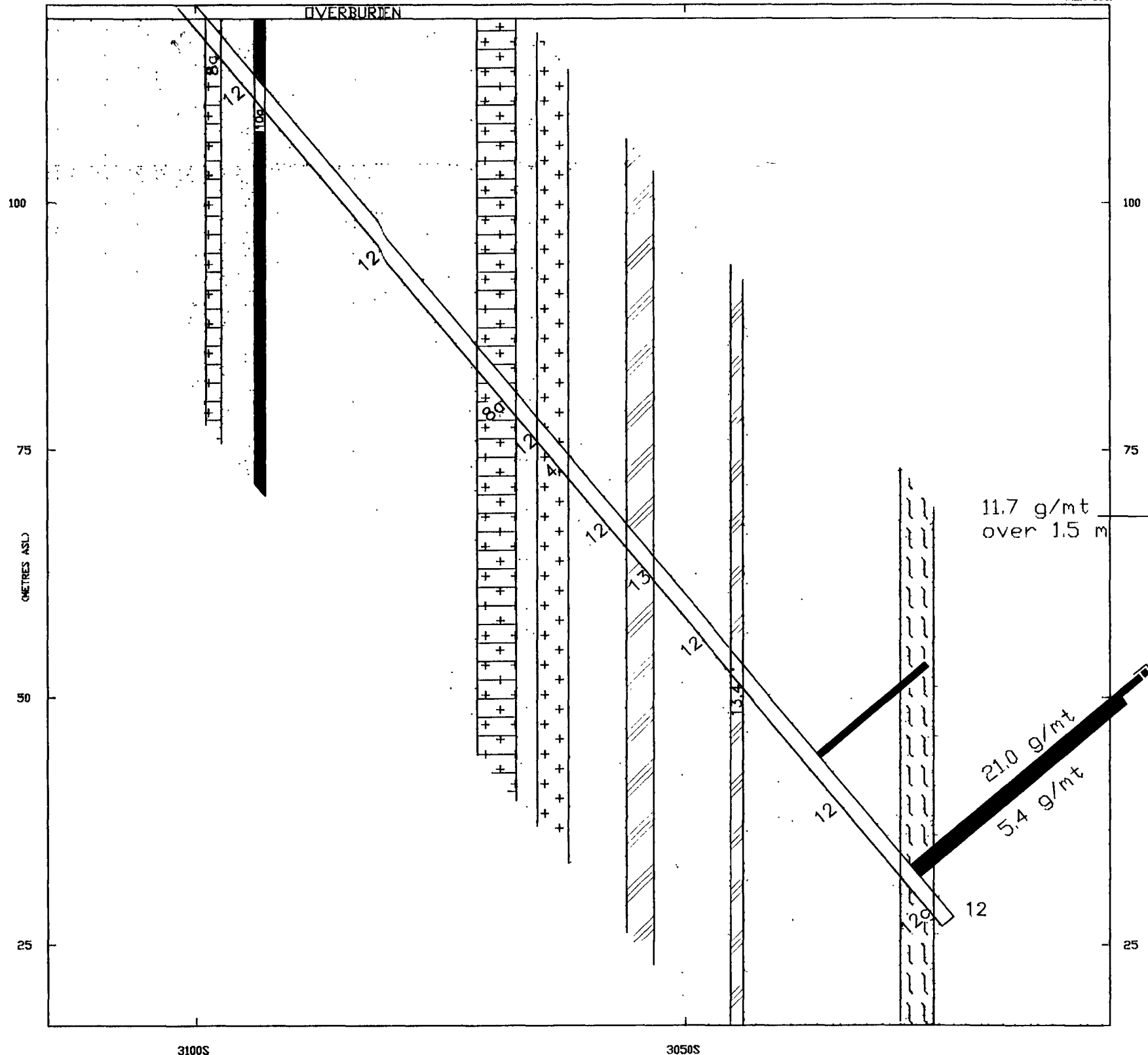


ML-92-82

3100S

3050S

(AZM 360)



LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 15 - MAFIC DYKES
 - 15a - DIABASE MAFIC DYKES
- 16 - TONALITE
 - 16a - SHEARED TONALITE
 - 16b - DIORITE
 - 16c - SERPENTINE SCHIST
- 17 - INTERMEDIATE PORPHYRY
 - 17a - PORPHYRY

MCVICAR TECTONITES

- 18 - NORTH ZONE GALTOUNG
 - 18a - GRANITE VEIN
 - 18b - FAULT GROUND
- 19 - BECCATED/SHEARED GABBRO
 - 19a - SHEARED GABBRO
 - 19b - BECCATED GABBRO
 - 19c - SERPENTINE SCHIST
 - 19d - INTENSELY SELECTED PASSIVE GABBRO
- 20 - BECCATED/SHEARED ANORTHITIC GABBRO
 - 20a - SHEARED ANORTHITIC GABBRO
 - 20b - BECCATED ANORTHITIC GABBRO
 - 20c - SERPENTINE SCHIST
 - 20d - INTENSELY SELECTED MASSIVE ANORTHITIC GABBRO
- 21 - BECCATED/SHEARED BASALT
 - 21a - SHEARED BASALT
 - 21b - BECCATED BASALT
 - 21c - SERPENTINE SCHIST
 - 21d - SELECTED BASALT
- 22 - BECCATED PEROPHYRIC BASALT
 - 22a - SHEARED PEROPHYRIC BASALT

EARLY INTRUSIVE

- 23 - GABBRO
 - 23a - ANORTHITIC
 - 23b - ANORTHITIC
 - 23c - QUARTZ GABBRO
 - 23d - SCHIST

SEDIMENTS

- 24 - FINESTRAFF COBBLE
- 25 - MUDSTONE
- 26 - GREYSLATE

FELSIC VOLCANICS

- 27 - FELSIC VOLCANICS
 - 27a - PEROPHYRIC FLOW
 - 27b - FELSIC DUFF
 - 27c - BRECCIA

MAFIC VOLCANICS

- 28 - BASALT
 - 28a - PEROPHYRIC
 - 28b - FLOWED
 - 28c - CLARKE FLOW
 - 28d - FLOW TOP BRECCIA/DIFFERENTIAL SEPARATION
 - 28e - 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 8600
GEOLOGY, AU
DDH ML-92-82

DATE	DRAWN	CHECKED	REVISED	HYD	FILE	MAP
SEP. 82	B.C.B.				SL 9/11	1486

1:500 - METRES



52O11SW0008 OM92-008 MCVICAR LAKE

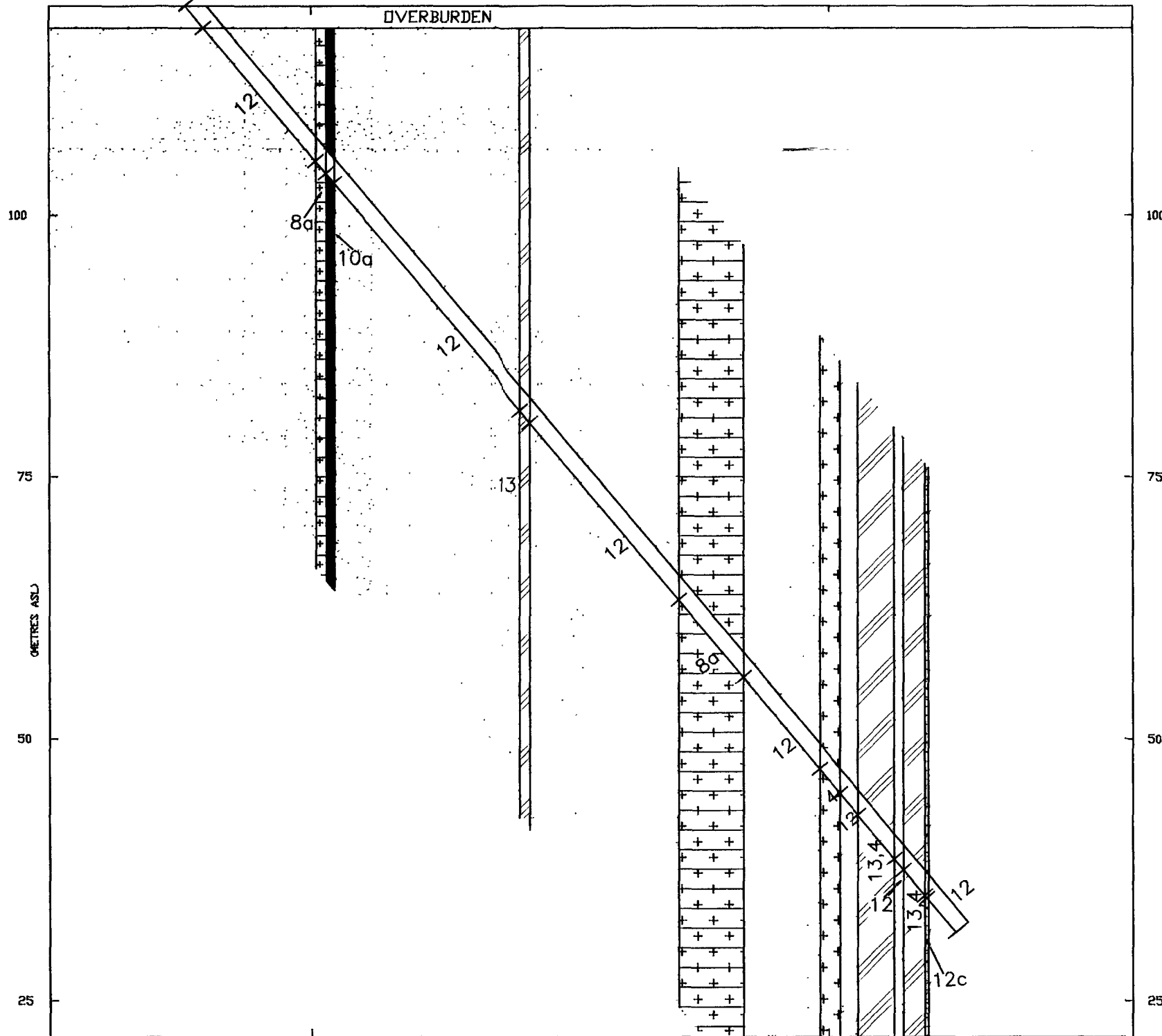
ML-92-85

3100S

3050S

(AZM 360)

OVERBURDEN



METRES ASL

100

75

50

25

100

75

50

25

LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 13 - MAFIC DYKE
 - 13a - SHEARED MAFIC DYKE
- 12 - TONALITE
 - 12a - SHEARED TONALITE
 - 12b - BRECCIA
 - 12c - GNEISSIC SCHIST
- 11 - INTERMEDIATE INTRUSIVE
 - 11a - PERPHYRIC

McVICAR TECTONITES

- 10 - NORTH ZONE GALTHERED
 - 10a - QUARTZ VEIN
- 9 - FAULT MESSAL
- 8 - IMBECILLATED/SHEARED GABBRO
 - 8a - SHEARED GABBRO
 - 8b - IMBECILLATED GABBRO
 - 8c - GNEISSIC SCHIST
 - 8d - INTENSELY SILICIFIED MASSIVE GABBRO
- 7 - IMBECILLATED/SHEARED AMPHIBOLITE GABBRO
 - 7a - SHEARED AMPHIBOLITE GABBRO
 - 7b - IMBECILLATED AMPHIBOLITE GABBRO
 - 7c - GNEISSIC SCHIST
 - 7d - INTENSELY SILICIFIED MASSIVE AMPHIBOLITE GABBRO
- 6 - IMBECILLATED/SHEARED BASALT
 - 6a - SHEARED BASALT
 - 6b - IMBECILLATED BASALT
 - 6c - GNEISSIC SCHIST
 - 6d - SILICIFIED BASALT
- 5 - IMBECILLATED PERPHYRIC BASALT
 - 5a - SHEARED PERPHYRIC BASALT

EARLY INTRUSIVE

- 4 - GABBRO
 - 4a - AMPHIBOLITE
 - 4b - AMPHIBOLITE
 - 4c - QUARTZ GABBRO
 - 4d - GRANITE

SEDIMENTS

- 3a - MUDSTONE (COOP)
- 3b - MUDSTONE
- 3c - GREYSLACK

FELSIC VOLCANICS

- 2 - FELSIC VOLCANIC
 - 2a - PERPHYRIC FLOW
 - 2b - FELSIC TUFF
 - 2c - BRECCIA

MAFIC VOLCANICS

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

GOLD HISTOGRAMS
 1 cm = 500 ppb

NOTE: ONLY VALUES > 500 ppb PLOTTED

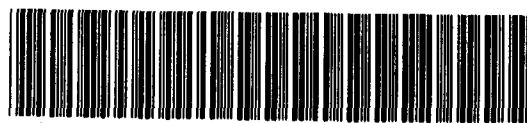
SHONIA #1 OCCURRENCE

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

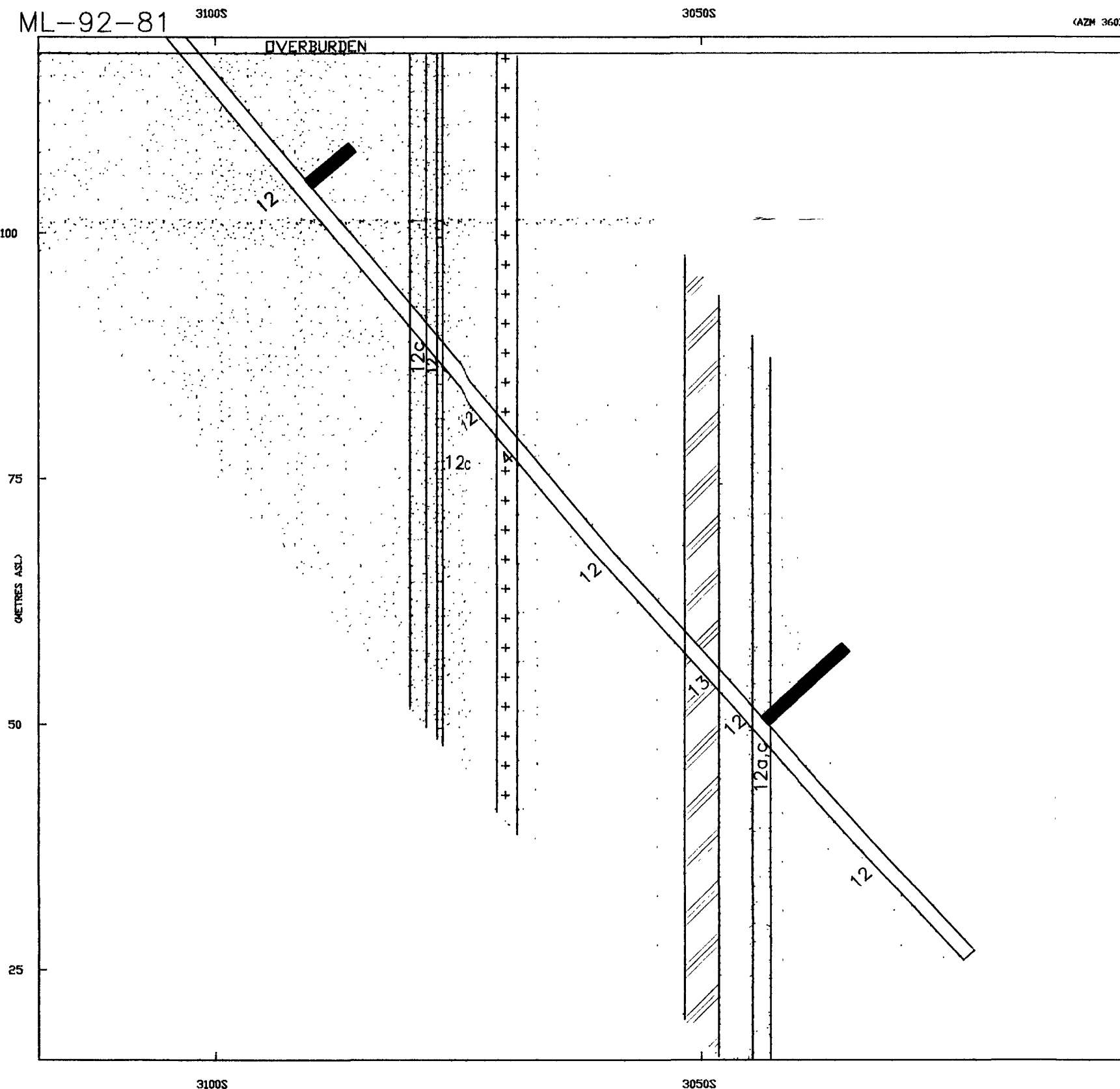
McVICAR LAKE PROPERTY
 SECTION L 8575
 GEOLOGY, AU
 DDH ML-92-85

DATE	DRAWN	CHECKED	REVISED	HTS	FILE	MAP
SEP. 83	R.C.B.			EX 9/11	1446	02

1:500 - METRES



52011SW0006 OM92-008 McVICAR LAKE



LEGEND

LATE INTRUSIVES

- 14 - GRANITE
- 13 - DIAPYC STROKS
- 13a - SEPARATED DIAPYC STROKS
- 12 - TYPALITE
- 12a - SEPARATED TYPALITE
- 12b - BRECCIA
- 12c - SECTATE SCIST
- 11 - INTERMEDIATE INTRUSIVE
- 11a - PORPHYRYTIC

McVICAR TECTONICS

- 10 - NORTH SIDE GAZONED
- 10a - GRANITE VEIN
- 9 - FAULT ZONE
- 8 - BRECCIATED/SEPARATED GABBRO
- 8a - SEPARATED GABBRO
- 8b - BRECCIATED GABBRO
- 8c - SECTATE SCIST
- 8d - INTENSELY SELECTED MASSIVE GABBRO
- 7 - BRECCIATED/SEPARATED ANORTHOTIC GABBRO
- 7a - SEPARATED ANORTHOTIC GABBRO
- 7b - BRECCIATED ANORTHOTIC GABBRO
- 7c - SECTATE SCIST
- 7d - INTENSELY SELECTED MASSIVE ANORTHOTIC GABBRO
- 6 - BRECCIATED/SEPARATED BASALT
- 6a - SEPARATED BASALT
- 6b - BRECCIATED BASALT
- 6c - SECTATE SCIST
- 6d - SELECTED BASALT
- 5 - BRECCIATED PORPHYRYTIC BASALT
- 5a - SEPARATED PORPHYRYTIC BASALT

EARLY INTRUSIVE

- 4 - GABBRO
- 4a - ANORTHOTIC
- 4b - ANORTHOTIC
- 4c - QUARTZ GABBRO
- 4d - SECTATE

SEDIMENTS

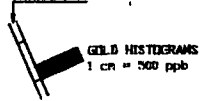
- 3a - DEPOSITED COARSE
- 3b - SILTSTONE
- 3c - SILTSTONE

FELSIC VOLCANICS

- 2 - FELSIC VOLCANIC
- 2a - PORPHYRYTIC FLUIDS
- 2b - FELSIC TUFF
- 2c - BRECCIA

MAFIC VOLCANICS

- 1 - BASALT
- 1a - PORPHYRYTIC
- 1b - FLOWED
- 1c - COMBIC FLOW
- 1d - FLOW TOP BRECCIA/INTERFLOW SCORRY
- 1e - TUFF


GOLD HISTOGRAMS
 1 cm = 500 ppb

NOTE: ONLY VALUES > 500 ppb PLOTTED


SHONIA #1 OCCURRENCE

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

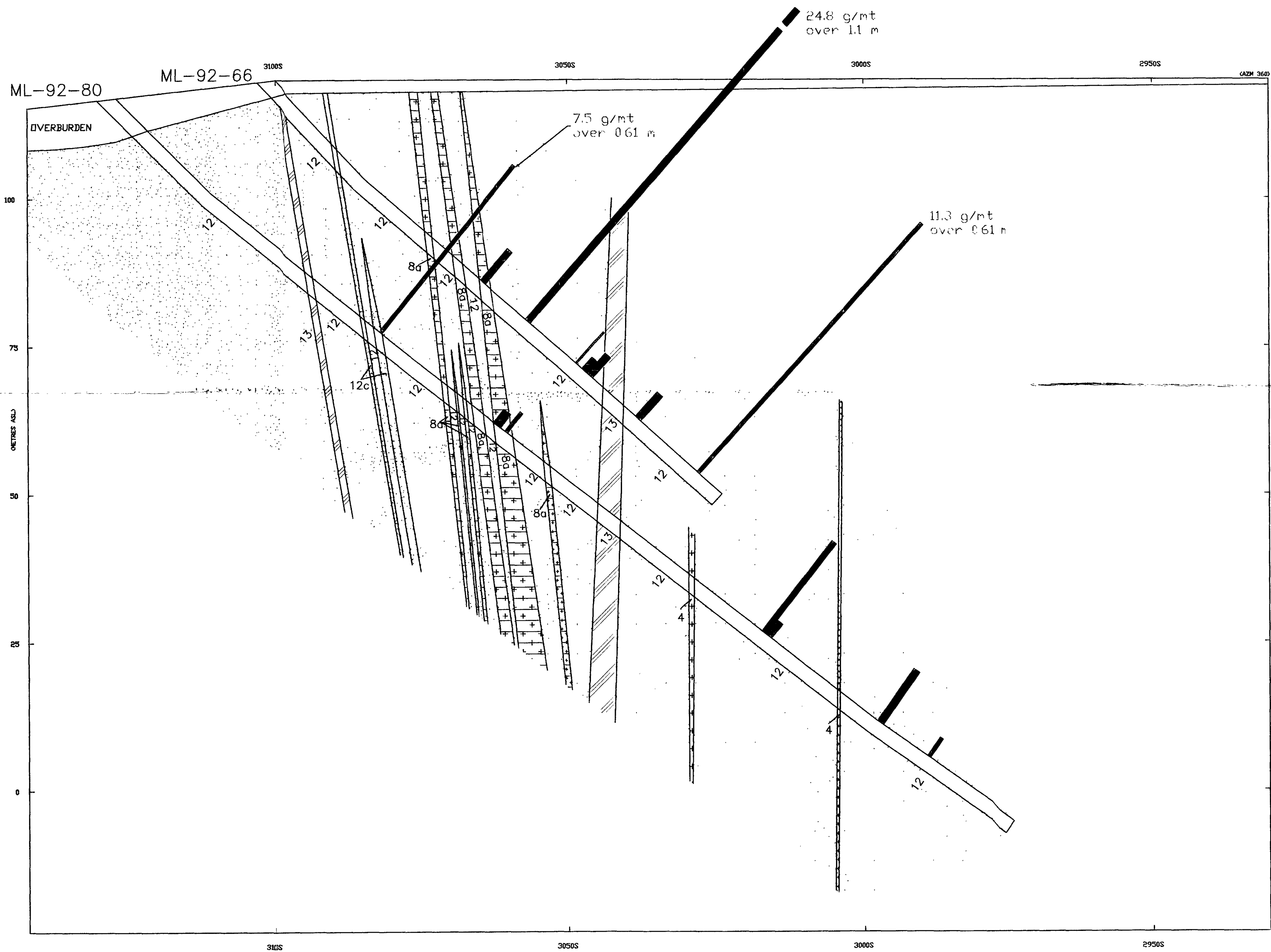
McVICAR LAKE PROPERTY
 SECTION L 8623
 GEOLOGY, AU
 DDH ML-92-81

DATE	DRAWN	CHECKED	REVISED	NYS	FILE	MAP
07/11	R.G.B.			07/11	1145	07

1:500 - METRES




52011SW0006 OM92-008 MCVICAR LAKE



LEGEND

LATE INTRUSIVES

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

McVICAR TECTONITES

- 10 - NORTH ZONE (ALTERED)
 - 10a - QUARTZ VEIN
- 9 - FAULT GELUGE
- 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 - ANORTHOSITIC
 - 4c - QUARTZ GABBRO
 - 4d - DIORITE

SEDIMENTS

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

FELSIC VOLCANICS

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

MAFIC VOLCANICS

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

BRILL 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

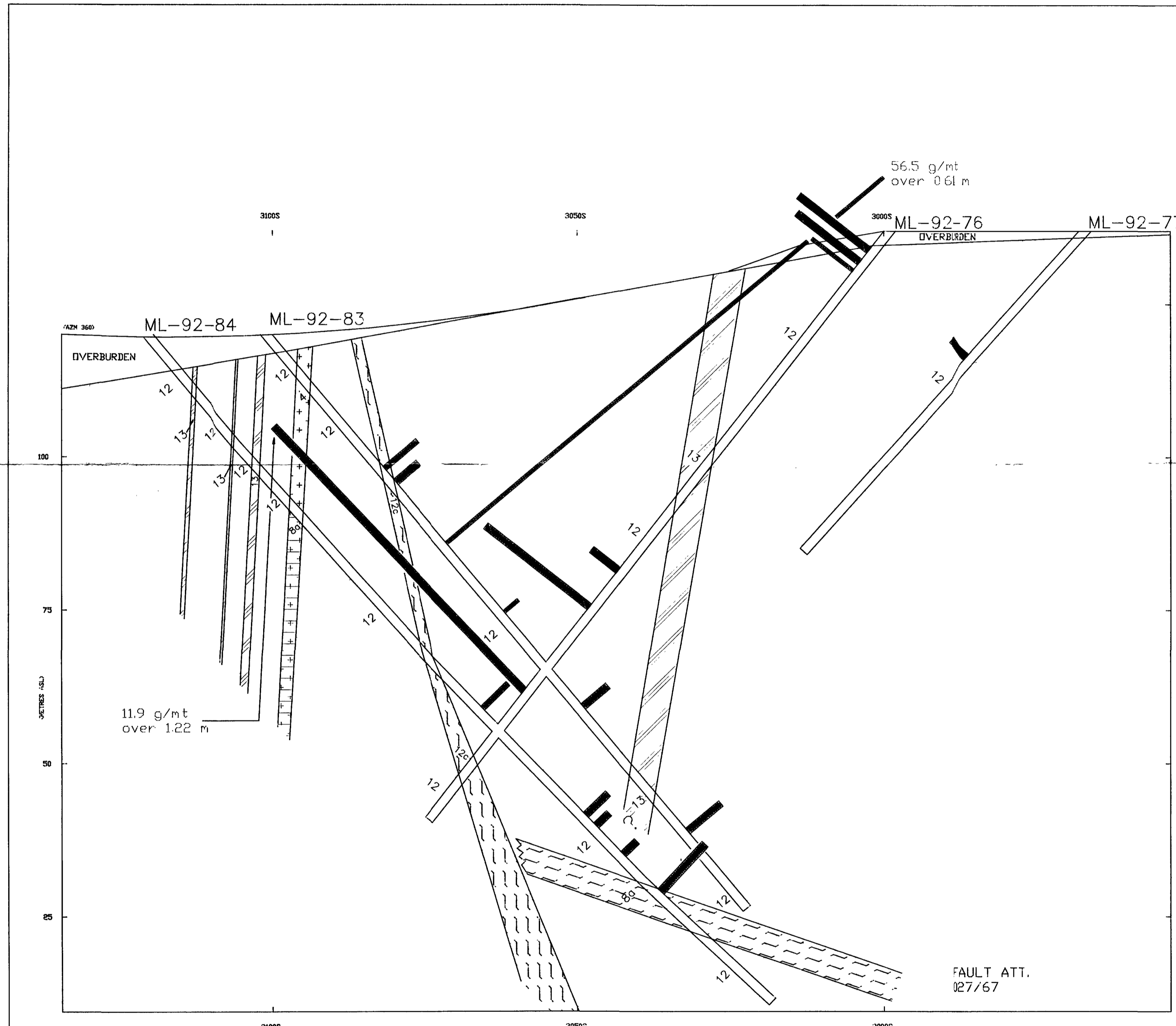
McVICAR LAKE PROPERTY
SECTION L 8650
GEOLOGY, AU
DDH ML-92-66,80

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

1:500 - METRES



52011SW0006 QMS2-008 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 GORGE
- 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 - ANORTHOSITIC
 - 4c - QUARTZ GABBRO
 - 4d - DIORITE

SEDIMENTS

- 3a - IRONSTONE (DIOBASE)
- 3b - MUDSTONE
- 3c - GNEISS/WACK

FELSIC VOLCANICS

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

MAFIC VOLCANICS

- 1 - BASALT
 - 1a - PORPHYRITIC
 - 1b - PILLINED
 - 1c - COMBEG 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

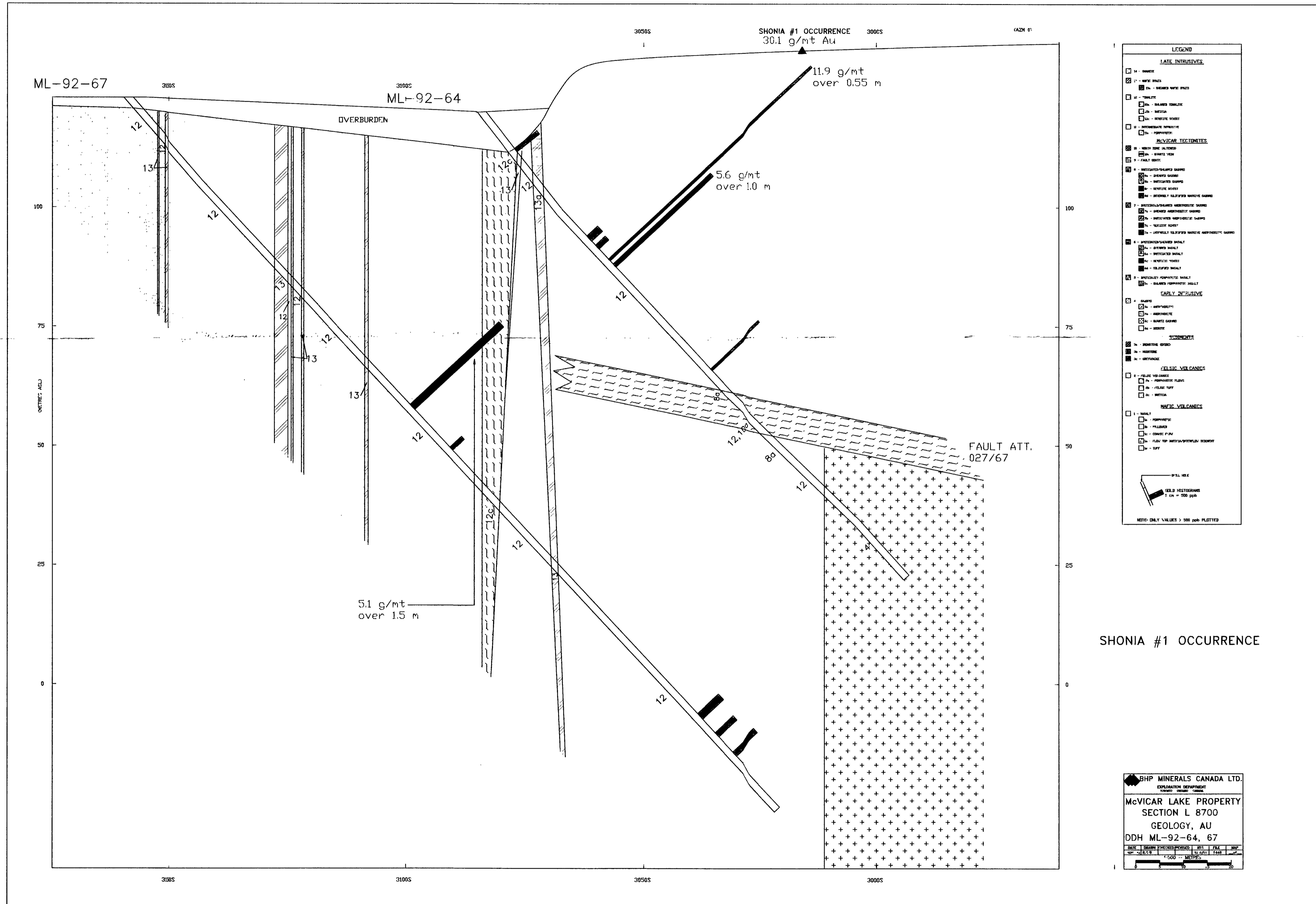
BHP MINERALS CANADA LTD.
 EXPLORATION DEPARTMENT
 TORONTO, ONTARIO, CANADA

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

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

1:500 - METRES





SHONIA #1 OCCURRENCE

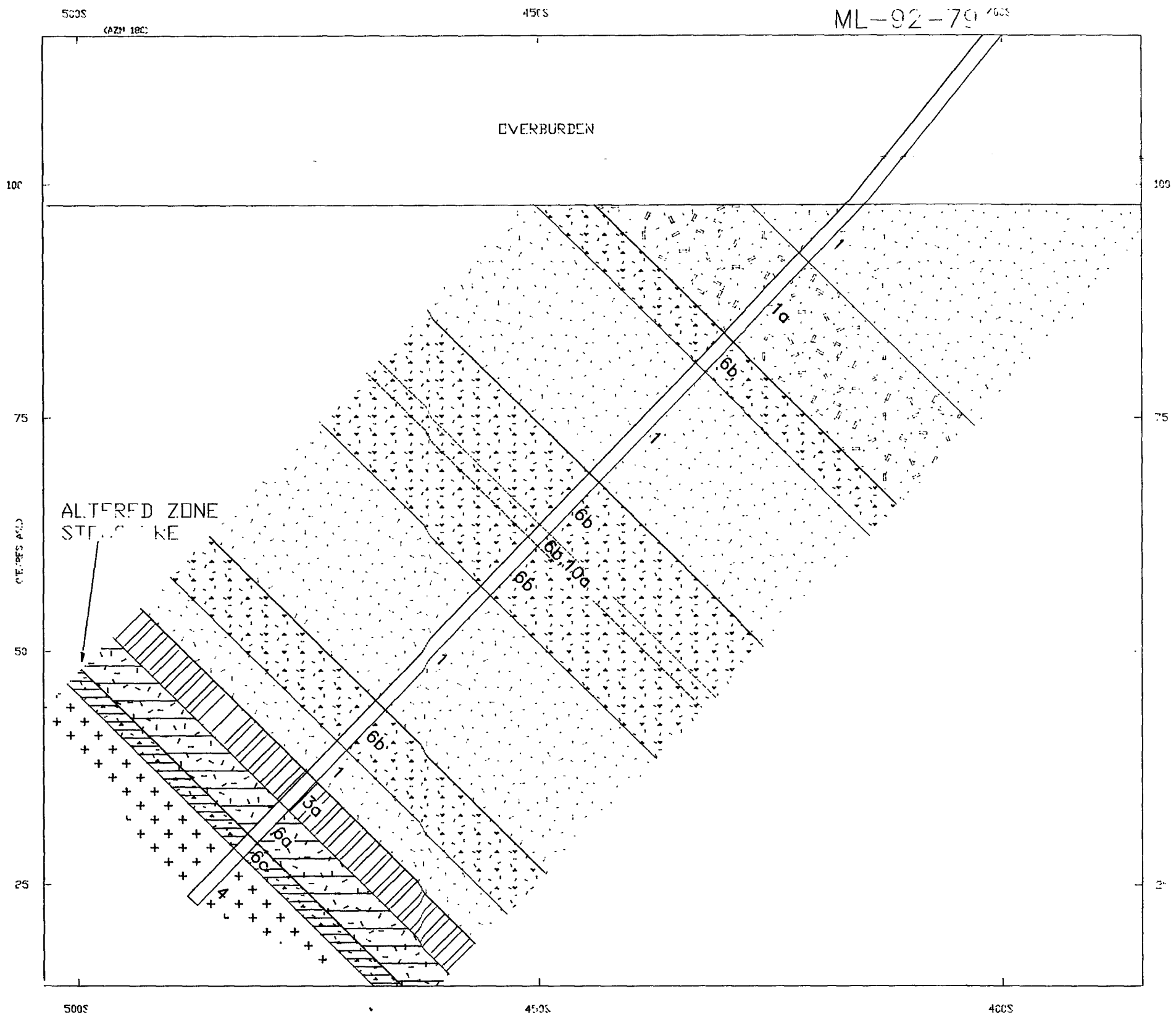
BHP MINERALS CANADA LTD.
 OPERATIONS DEPARTMENT
 TUNNUNG ORELAND CAMP

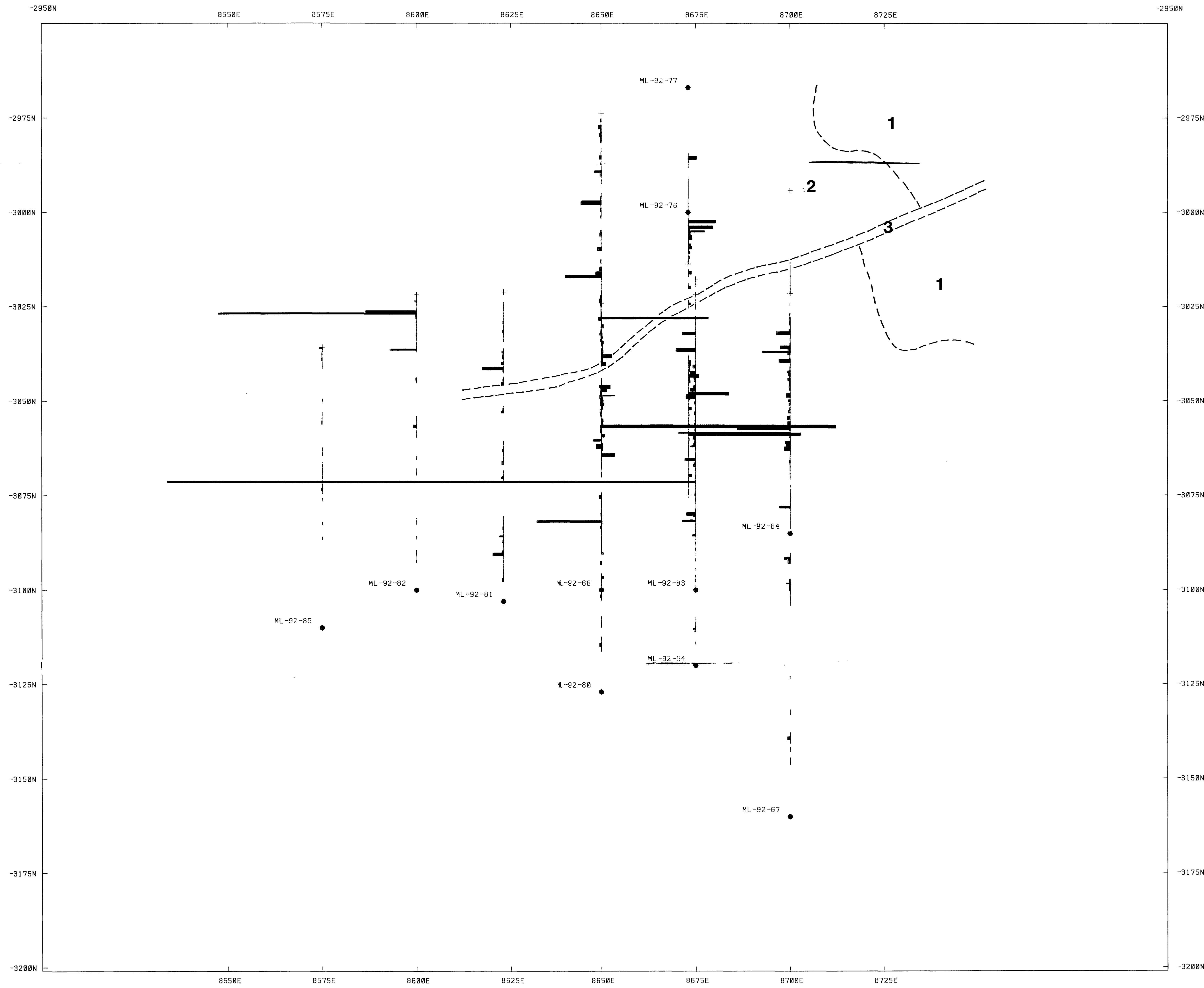
McVICAR LAKE PROPERTY
 SECTION L 8700
 GEOLOGY, AU
 DDH ML-92-64, 67

DATE	DRAWN	CHECKED	REVISED	DATE	BY	APP.
02/01/92	12/01/92

1:500 METRES







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/Imp. : 52 0 11	REVISIONS
Work By : RGB	Work By : RGB
Drawn By : RGB	Drawn By : RGB
Date : TIME.3	Date : OCT 92

