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EXPLORATION LICENCE NO. 14/93

("BASIN LAKE")

ANNUAL REPORT
DEC 1993 - DEC 1994

(Volume 1 of 1)

LOCATED DATA TAPE HELD (Dim.)

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14 December 1994

Report No:

Distribution:

- Tasmanian Department of Mines
- RGC Exploration - Zeehan
- RGC Exploration - Perth

SUMMARY

EL 14/93 - Basin Lake situated approximately 8 km south of the Henty Mine in western Tasmania was acquired for its potential to contain volcanic hosted massive sulphide mineralisation.

Work completed in the first twelve months of tenure involved detailed 1:1000 and 1:5000 geological mapping and relogging of old drill core. Three new drill holes TYN006, TYN007 and TYN008 were targeted at a potential exhalative horizon at the base of the Tyndall Group. TYN006 and TYN007 intersected a favourable sequence of massive carbonates and volcaniclastics overlying andesitic lavas but contained only low basemetal abundances. TYN008 failed to intersect the target horizon and was entirely within weakly altered footwall andesites. TYN006 and TYN007 were surveyed with down hole EM and a limited ground magnetometer survey was performed.

The results of the first twelve months of tenure have confirmed that the contact between the Tyndall Group and the Anthony Road Andesites is a favourable horizon for exhalative massive sulphide mineralisation. Future exploration will target the intersection of this horizon at depth with the Great Lyell Fault, a known active Cambrian mineralising structure.

CONTENTS

LIST OF PLANS AND FIGURES

PLAN 10 TYN006 Crone DHTEM Survey X Component

PLAN 11 TYN006 Crone DHTEM Survey Y Component

PLAN 12 TYN006 Crone DHTEM Survey Z(Axial) Component

PLAN 13 TYN007 Crone DHTEM Survey X Component

PLAN 14 TYN007Crone DHTEM Survey Y Component

PLAN 15 TYN007 Crone DHTEM Survey Z(Axial) Component

Note:- Plans 10-15 are in Appendix 7.

LIST OF APPENDICES

1. INTRODUCTION

EL 14/93 - Basin Lake is held by Renison Limited and is explored by RGC Exploration, both wholly owned subsidiaries of RGC Limited. The licence is located in western Tasmania approximately 12 km north of Queenstown, and is situated on the flank of the Tyndall Range (fig. 1). It was granted on January 14, 1995 and covers an area of 8 sq km.

The major access to the EL is via the Anthony Road, approximately 12 km east of the junction with the Zeehan Highway. Access within the EL is provided by a vehicular track which follows a HEC powerline close to the western edge of the EL.

The vegetation consists predominantly of buttongrass plains and light tea tree scrub with some patches of medium eucalypt forest. The area has been extensively glaciated and except for a block of about 0.5 sq km in the north of the EL is covered by glacial moraine and outwash.

The area was acquired for its potential to host Rosebery style Cu-Pb-Zn-Ag and Henty style Au mineralisation.

2. TENURE

The EL comprises: Crown Land (Deferred Forest Land)
Crown Land
Land Vested in HEC.

The area is partly within the South West Tasmania Australian Heritage Act - Registered Entry (South West conservation Area).

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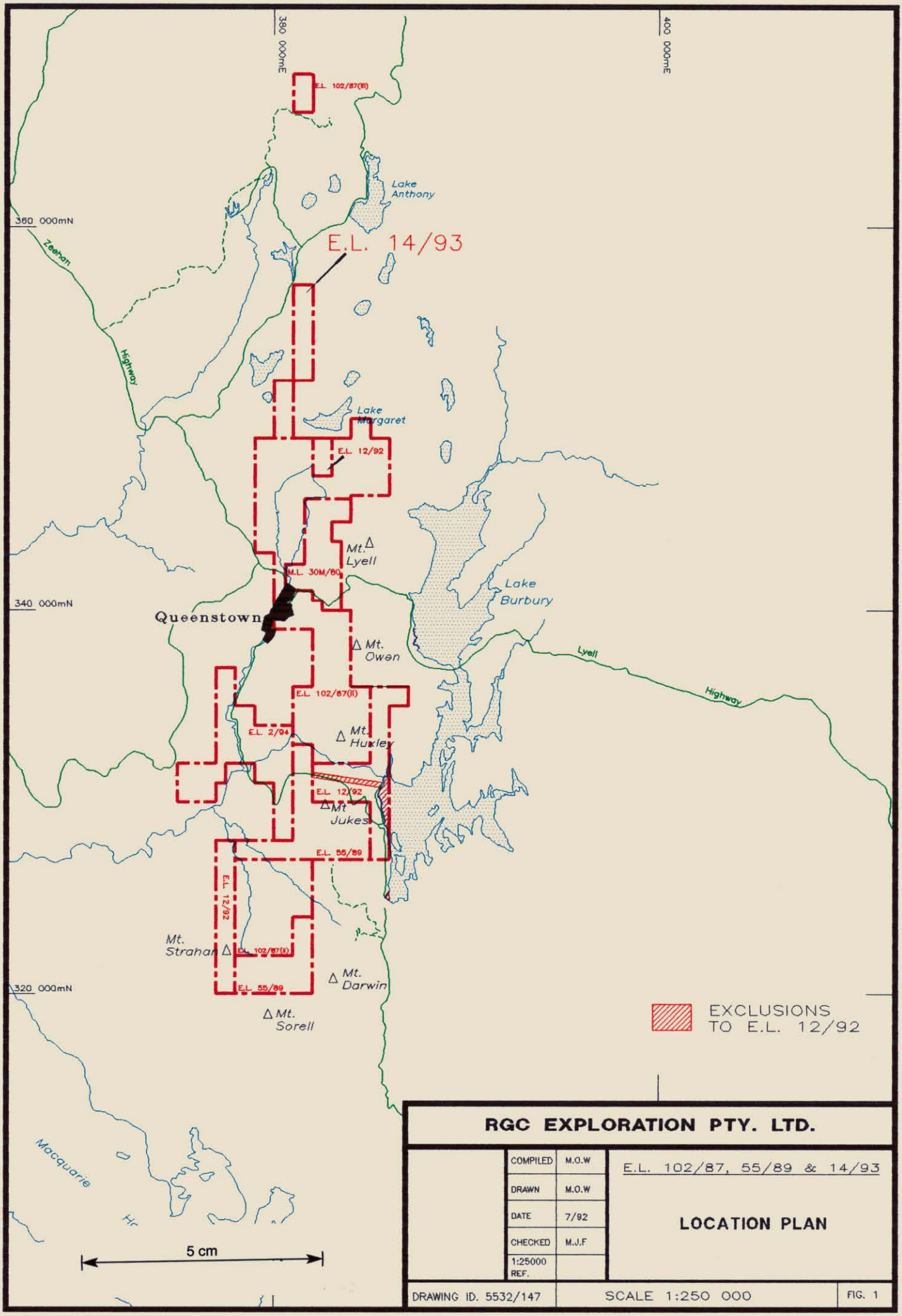

RGC EXPLORATION PTY. LTD.

COMPILED	M.O.W	E.L. 102/87, 55/89 & 14/93
DRAWN	M.O.W	
DATE	7/92	LOCATION PLAN
CHECKED	M.J.F	
1:25000 REF.		

DRAWING ID. 5532/147 | SCALE 1:250 000 | FIG. 1

3. PREVIOUS EXPLORATION - (Modified from Donaldson, 1993)

Exploration prior to 1983 is discussed comprehensively by Fitzgerald in Purvis et al 1983 and is presented below.

The first detailed exploration of Basin Lake was carried out by Pickands Mather between 1965 and 1971. Following an initial reconnaissance, they gridded the Mt Read Volcanics-Owen Conglomerate contact for some eleven miles north of the Mt Lyell Mine Lease and surveyed this using a dipole-dipole IP array. The strongest anomaly was located north east of Basin Lake over an area covered by glacial moraine. Two vertical holes (BL801 and BL802) were drilled to test this anomaly, the second being abandoned before reaching target. Pickands Mather ran a Turam EM survey over this zone following the inconclusive drilling, and delineated a linear anomaly just west of the IP anomaly. The response was attributed to pyritic black shales intersected in the upper part of BL801. They carried out no further work here, partly it appears because of serious drilling problems in penetrating the thick glacial over-burden.

The northern part of the Basin Lake area was covered by dipole-dipole IP surveys in 1967-68 over the East Tyndall grid, within Mt Lyell's E.L. 9/66. Two anomalous zones were outlined and two drill targets were identified. These anomalies were resurveyed by gradient array IP in 1973-74 which reaffirmed the drill target in the north western zone. In-fill grids were cut and resurveyed by gradient array IP in the following year which detailed the north west zone into five anomalies. One of these was tested by hole TYN002 drilled in 1975, but subsequent reinterpretation indicates that the anomaly has not been explained. Costeaning and a second drill hole, were recommended to test other anomalies within this zone but the programme was not carried out because of budget restrictions at the time.

The rest of the Basin Lake area was pegged by Mt Lyell in 1971 as part of E.L. 41/71 but gridding and detailed exploration did not commence until 1974. The grid was initially mapped and surveyed by gradient array IP and magnetics. Primary anomalies were followed-up by soil geochemistry and infill IP surveys, and two holes (BL001 and 002) were completed in 1978 in the vicinity of the Pickands Mather drillholes. The holes intersected minor base metal mineralisation in a felsic tuffaceous sequence.

Following the results of testing at Howard's Anomaly to the north, the area was further evaluated for possible extensions to the zone. Additional dipole-dipole IP, magnetic and soil geochemistry surveys were carried out and two holes (BL003 and 004) were drilled in 1981.

The most significant result to date at basin Lake was the discovery in BL004 of a strongly altered and pyritic sequence of epiclastics enclosing a lens of massive pyrite up to 2.5m thick. However, base metal values were low. Additional dipole-dipole IP and Genie EM surveys were carried out in 1982, along with reassaying of drill core and sulphidic outcrops for gold.

Work completed after the writing of the summary above includes the drilling of two diamond drill holes and a geophysical review. BL005 was drilled in 1984 to test the southern extension of the massive pyrite and an IP anomaly, results were negative. The other drill hole was drilled

by the Mines department in 1984 at the Leech Hill sericite-pyrite alteration zone and intersected minor base metal sulphide in altered andesitic volcanics (Fitzgerald and Pease, 1985).

During the 1985 to 1986 season some mapping was undertaken as well as UTEM and SIROTEM geophysical surveys. These surveys along with previous geophysical data outlined three anomalies that required follow-up work. Results for the Bradshaw Road and Leech Hill pyrite zone were discouraging (Fitzgerald and Cartwright, 1986).

In the following season, 1986/87, minor mapping, drilling and downhole EM surveys were undertaken. Drill holes TYN004 and TYN005 did not intersect any significant mineralisation and downhole EM surveys of TYN004, TYN005 and BL004 indicated that no new significant conductors were present. It was concluded that, although the Basin Lake area had been extensively covered by geophysical surveys and that the diamond drilling was quite widely spaced, it was difficult to identify any further targets for further investigation (Fitzgerald, 1987). The lease covering the Basin Lake area was relinquished in 1987.

Prior to relinquishment in April 1993, EL 14/93 was entirely within EL 103/87 held by an Aberfoyle - Billiton Joint Venture. Work done included limited geological mapping, a limited ground magnetics and CSAMT survey on lines 349000N - 353000N, a gravity survey on line 350200N, and a six loop 59 line km UTEM survey (Richardson, 1993). Diamond drill hole BLD 89-3 was drilled to test a CSAMT anomaly adjacent to the Great Lyell Fault. The hole was collared in a sequence of rhyolitic to dacitic lavas and volcaniclastics (Tyndall Group) and intersected the Great Lyell Fault at 358.6m. A base metal poor alteration zone with disseminated pyrite was intersected from 130 to 230m and was considered to be the source of the CSAMT anomaly. The downhole EM survey of BLD 89-3 by Billiton indicated the presence of an off hole conductor centred around 210m. The hole was later resurveyed by Aberfoyle and the anomaly confirmed. However revaluation of the data suggested that it may be due to a surface conductor tested by drillhole BL002 and no further work was recommended.

4. WORK COMPLETED

In the period January 1994 - January 1995 the work completed in EL 14/93 - Basin Lake includes the following:-

1) Geological Mapping at 1:5000 and 1:1000 scale,
2) Relogging of old drillholes (BL802, BL001-005, TYN001, TYN003-005 and BLD 89-3),
3) Drilling of 3 new diamond drill holes (TYN006, 007 and 008),
4) Down hole EM survey of TYN006 and 007,
5) 13 lines of Ground Magnetics, and
6) 50 rock chip samples from TYN006, 007 and 008 were analysed.

5. RESULTS AND DISCUSSION

5.1 Regional Geology

A simplified geological map of the Basin Lake-Henty area is presented on Figure 2. The geology of the northern part of EL 14/93 consists of a sequence of Cambrian volcanic rocks and Ordovician siliciclastics separated by a major N-S trending fault zone, the Great Lyell Fault. The Cambrian volcanics can be subdivided into two mappable formations:-

a) Anthony Road Andesites, and
b) Tyndall Group, which consists of a sequence of crystal rich volcaniclastic sandstone, conglomerate and rhyolite lavas.

Recent work by RGC at Mt Lyell, West Sedgewick and at Henty has shown that the contact between Tyndall Group and the andesites is a potentially "favourable horizon" for the development of VHMS mineralisation. Massive carbonate horizons are commonly developed at this contact and are interpreted to be distal low temperature exhalite facies.

Although the Basin Lake EL is extensively covered by glacial deposits up to 30m in thickness there has been sufficient subglacial diamond drilling to determine the distribution of the Tyndall Group and andesitic rock types. Prior to 1993 there has been twelve diamond drill holes drilled within or near EL 14/93. These have been relogged and simplified logs are presented in Appendix 2.

Two 1:5000 geological interpretation maps are presented on Plans 1 and 2. Information for these plans is taken from 1:5000 and 1:1000 geological mapping, relogging of old and new drill holes and additional data (mainly outside the EL boundaries) is taken from Corbett (1986).

5.2 Geology of the Tyndall Creek area

There is excellent outcrop exposed in the north of EL 14/93 in the Tyndall Creek area. This area has been mapped in detail using a 1:1000 airphoto (Mt Read 1108 Run 2 Negative 55, 17/2/1988) as a base, and is presented on Plans 3 and 4.

The Tyndall group has been subdivided into seven major lithological subdivisions, and overlies a sequence of andesitic lavas and andesitic volcaniclastics sediments, the Anthony Road Andesites. The upper parts of the Tyndall Group are folded into a north plunging syncline, the eastern limb of which is truncated by the Great Lyell Fault.

There appears to be a structural dislocation of the Great Lyell Fault just to the north of Whitham Bluff where the fault is offset 100-200m to the west on a series of east-west cross faults. The southern-most of these produces a probable off set of about 250m to the andesite-Tyndall Group contact. To the south of this cross fault structural contour data suggests that the Great Lyell Fault has a dip of about 70° to the west.

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BASIN LAKE REGIONAL GEOLOGY

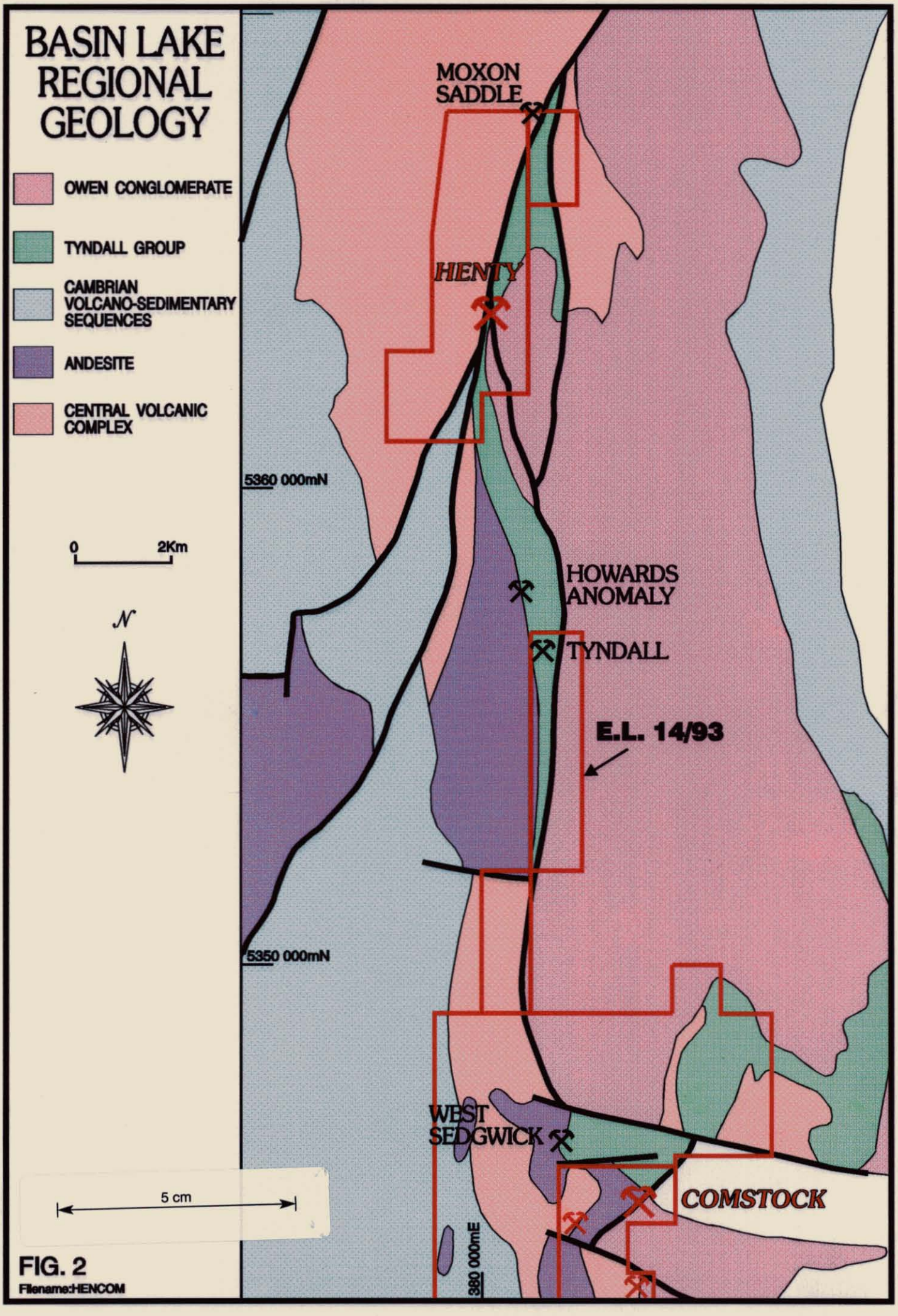


FIG. 2

Filename:HENCOM

During the mapping program barite float was found close to the andesite-Tyndall Group contact at 381195mE, 5356557mN and was considered to be the southern continuation of the Howards Anomaly mineralisation. Three drill holes TYN006, 007 and 008 were drilled to test this probable exhalative horizon.

5.3 Diamond Drilling

5.3.1 TYN006

Drill hole TYN006 was designed to intersect an exhalative horizon midway between an occurrence of barite and the Howards Anomaly horizon. The hole was collared at the base of a mappable siltstone horizon (Unit b. See below) and provides a continuos stratigraphic section through the Comstock Tuff, and underlying units into the Anthony Road Andesite. A detailed log is given in Appendix 3 and a cross-section of the hole is shown on Plan 5. A simplified stratigraphic section near TYN006 showing true lithological thickness is shown on Figure 3. The major stratigraphic units are:-

A) Upper Epiclastics or Upper Tyndall Group
   a) Epiclastic sandstone and conglomerate (Thickness unknown)
   b) Thinly bedded siltstones (~58m) (CTTSH)

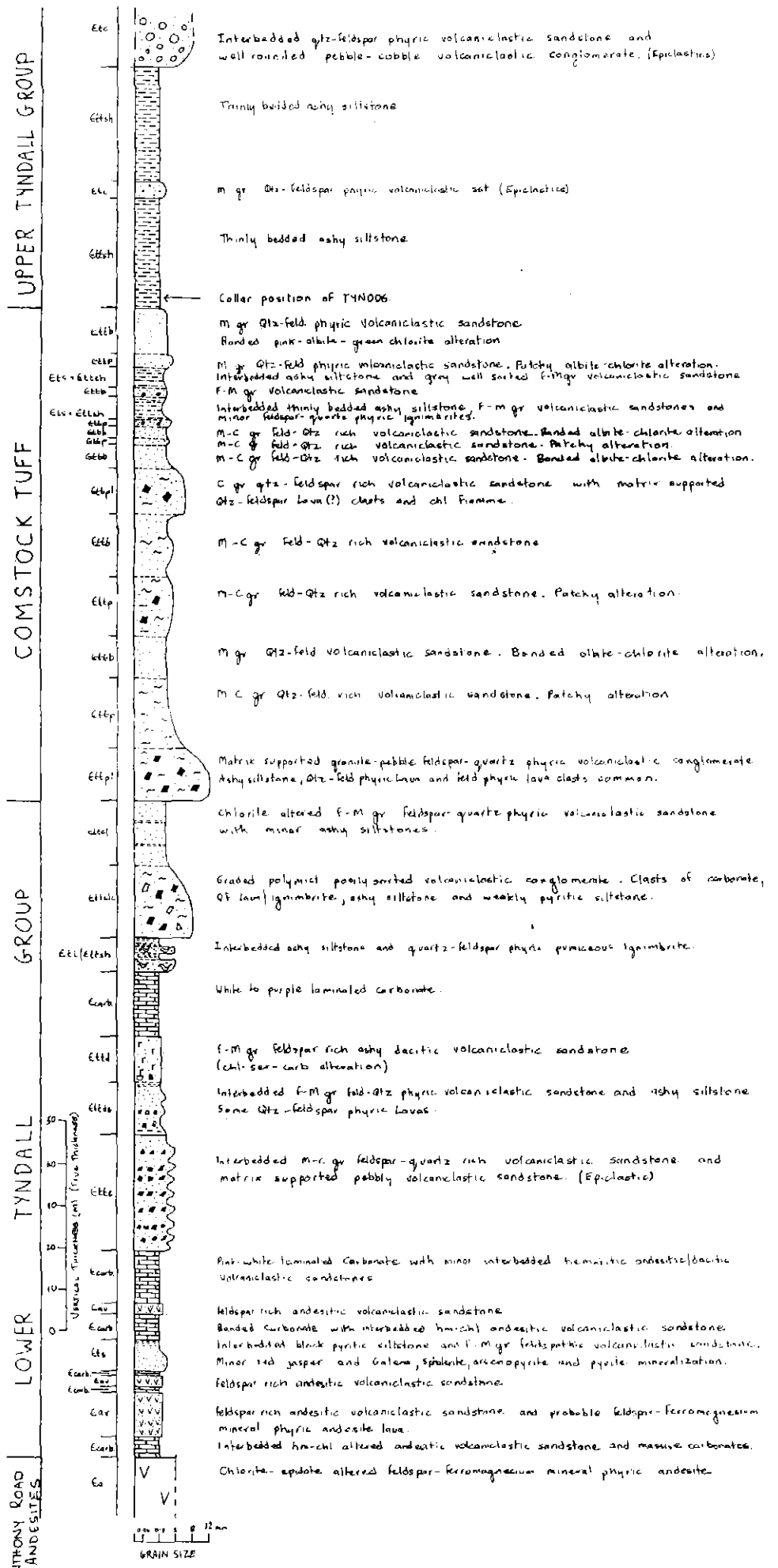
B) Comstock Tuff
   c) Interbedded crystal rich volcaniclastic sandstone and conglomerate. Characterised by patchy to banded pink albite-green chlorite alteration. A distinctive 12m thick chert bearing granule-pebble volcaniclastic conglomerate occurs at the base. (Total thickness 116m) (CTT)

C) Lower Tyndall Group
   d) Chloritic volcaniclastic sandstone and conglomerate. (32m) (CTTCL)
   e) Interbedded carbonate, ashy siltstone and rhyolitic ignimbrite (23m)
   f) Dacitic volcaniclastic sandstone and siltstone. Minor rhyolitic lavas (23m)
   g) Feldspar-quartz rich epiclastic sandstone (27m)
   h) Interbedded carbonate, andesitic volcaniclastics sandstone, black siltstone and feldspathic volcaniclastic sandstone (49m)
   i) Andesite lava and Breccia (Thickness unknown)

The hole intersected two possible exhalite horizons (Unit e and h). Within Unit h black pyritic siltstone and feldspathic volcaniclastic sandstone contained variable amounts of disseminated pyrite (up to 5%) and small amounts of red (Tetsusekiei) jasper. Visible galena, sphalerite, arsenopyrite and chalcopyrite was associated with a 0.5m zone of quartz-carbonate veining. Another feature was the presence of sparse barite veins at levels stratigraphically above the inferred exhalite horizon associated with the Howards Anomaly mineralisation. This implies that the hydrothermal system remained active after the main exhalitive period.

(Fig 3.)

STRATIGRAPHY OF THE TYNDALL GROUP IN DRILL HOLE TYN006



5.3.2 TYN007

TYN007 was collared in the Comstock Tuff just above the basal chert bearing volcaniclastic conglomerate and intersected a similar stratigraphy to TYN006. A detailed drill log is given in Appendix 4 and a cross section is shown on Plan 6. A stratigraphic section is shown on Figure 4 and a diagram showing preferred correlation with TYN006 is shown on Figure 5.

In general there is excellent correlation between the two drill holes although some changes in thickness and lithology/facies are evident. The most variable unit is Unit h (CCARB,CAV,CTS) at the contact between the Tyndall Group and the Anthony Road Andesite and various intra-unit correlations are possible. It may be significant that the thickness of carbonates in this zone is greater TYN006 than in TYN007 and that the weakly mineralised CTS - black pyritic siltstone and feldspathic volcaniclastic sandstone unit was not present in TYN007.

5.3.3 TYN008

TYN008 was a subglacial drill hole aimed at intersecting the southern continuation of the Tyndall Group - andesite contact intersected in TYN007. It failed to intersect this horizon and was collared in Anthony Road Andesites. This lead to a reinterpretation of the geology at the southern end of the 1:1000 Map (Plans 3 and 4) and further mapping has shown that the contact is in fact further east than previously thought. A major E-W trending cross fault has now been recognised just to the north of the TYN008 collar and offsets the Tyndall Group - andesite contact approximately 250m.

The hole encountered approximately 21m of glacials before intersecting a sequence of andesite lavas and andesitic volcaniclastic conglomerate and sandstone. Drilling conditions were generally poor and the rock showed intense limonite weathering and fracturing to at least 150.5m. This may have been due to the close proximity to the fault zone discussed above. Below 150.5m the rock became much fresher and drilling conditions improved.

A drill log of the hole is given in Appendix 5 and a cross section is shown on Plan 7.

5.4 Drill hole Rockchip Geochemistry

5.4.1 TYN006

TYN006 was sampled at approximately 1m intervals from 311.6 to 327.5m over a zone of pyritic black siltstone and feldspathic volcaniclastic sandstones at the base of the Tyndall Group near the contact with the underlying Anthony Road Andesites. This zone was weakly mineralised with up to 5% disseminated pyrite and small amounts of red (Tetsusekiei) jasper. Visible galena, sphalerite, pyrite, arsenopyrite and chalcopyrite was associated with an intense zone of quartz-carbonate veining from 314.2 to 314.7m.

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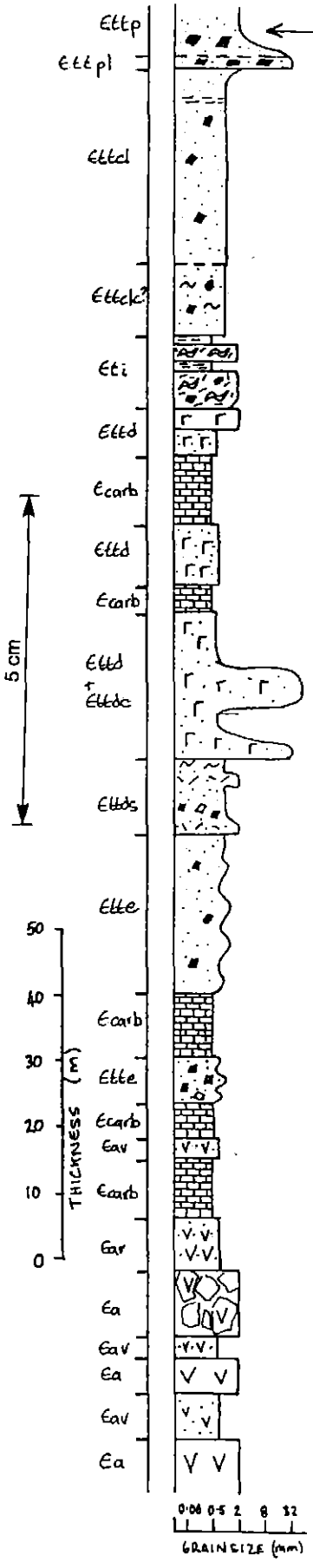
(Fig. 4)

STRATIGRAPHY OF THE TYNDALL GROUP IN DRILL HOLE TYN007



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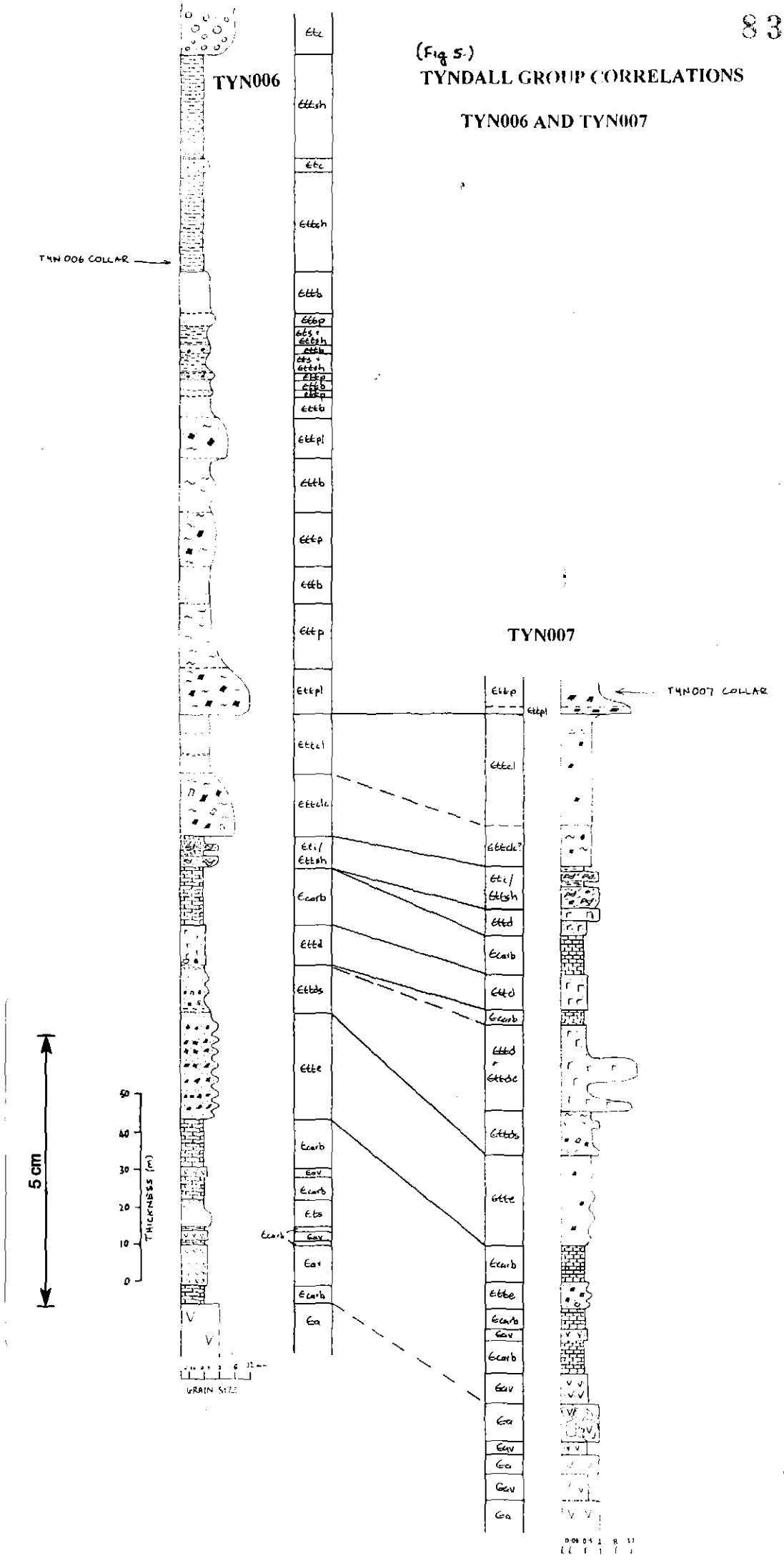
(Fig 5.)

TYNDALL GROUP CORRELATIONS

TYN006 AND TYN007



Assay result are presented in Appendix 6. In general only low level base metal values were obtained. Cu had a maximum value of 640 ppm from 319 to 320m. Pb had a maximum of 3852 ppm from 314 to 314.6m which corresponds to the zone of weakly mineralised quartz-carbonate veining. A maximum value of 1068 ppm Zn was recorded from 313 to 314m. In summary the zone from 311.6 to 322.5m averaged 140.4 ppm Cu, 650.7 ppm Pb, 378.4 ppm Zn, 1516 ppm Ba, 50.15 ppm As and 2245 ppm Mn. Above detection limit gold was detected from 318 to 321m with a maximum value of 0.322 ppm.

5.4.2 TYN007

Three separate stratigraphic intervals were analysed from TYN007. A unit of hematitic carbonate with minor dacitic volcaniclastic sandstone was sampled from 93.0 to 101.0m. The unit was only weakly mineralised (minor pyrite and magnetite) and contained only minor red jasper. A zone of dacitic volcaniclastic sediments with carbonate clasts was sampled from 158 to 161m. A thin carbonate horizon with weak pyrite mineralisation at the contact between an andesitic volcaniclastic sandstone and an andesite lava breccia was sampled from 302 to 307m.

Assay results reveal only very low basemetal and Ag and Au values. In general there is only minor variations in basemetal, Ag, Au, Ba, As and Mn contents between each of the three sampled intervals, and due to a high number of below detection limit analyses comparisons may be meaningless. In contrast to TYN006 there is some significant differences. TYN007 has much lower Cu, Pb, Zn, Ag, Ba, As and Mn. It is tentatively suggested that these differences may be the result of lateral variations along an exhalative horizon, with TYN007 being more distal to a vent than TYN006.

5.4.3 TYN008

Three distinct alteration styles were sampled in TYN008. They are:

a) Hematite veinlets in patchy chlorite-pink albite-limonite altered andesitic volcaniclastic conglomerate. Samples T37401-37410 (65-75m),
b) Pink hematitic carbonate veining in hematite-chlorite-epidote altered andesite lava. Samples T37412-37413 (164-166m), and T37414-37417 (170-174m), and
c) Specular hematite-quartz-carbonate-chlorite-epidote veining in hematite-chlorite-(epidote) altered andesite lava. Samples T37418-37419 (185-187m), T37420 (193-194m), T37421-37422 (198-199.8m).

The average element abundances for each of the three alteration styles are tabulated below:

Alteration Type	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Mn (ppm)	Au (ppm)	As (ppm)	Ba (ppm)
A	201.6	17.1	65.0	<2	190.7	*	4.8	376.2
B	(55)	25.2	40.7	<2	1148.2	<DL	7.2	766.5
C	<4	21.4	58.4	<2	966.8	<DL	9.8	846.2

* Commonly above DL. Best interval 1m at 0.385 ppm Au.

In general, alteration type A is characterised by high Cu and above detection limit Au and a low Mn content which probably reflects the absence of carbonates in the alteration assemblage. Type B is dominated by pink carbonates and has a high Mn content. Type C has extremely low Cu values and moderate Mn contents reflecting a variable amount of carbonate in the veins. In summary, all three alteration types are basemetal poor. This, and the low As and Ba contents probably reflects the low sulphur content of the fluids responsible for the alteration. The abundance of hematite in the alteration assemblage suggests that the alteration occurred in a highly oxidised environment.

5.5 Ground Magnetic Survey

A ground magnetometer survey was conducted on existing gridlines at Basin Lake on June 11 and 12, 1994. The survey was conducted along a series of east-west lines spaced 400m apart with measurements made at 5 metre intervals. The survey extended from line 2200 N to 7000 N and utilised a pair of Geometrics G856 proton precession magnetometers. One of these was established as a base station recording the diurnal variation of the Earth's magnetic field at 10 second intervals.

The results of the survey are presented on the accompanying floppy disk and as stacked profiles of total magnetic intensity on Plans 8 and 9. In general there is a pronounced change in profile shape from the north where the profiles show considerable variation, to the south where the profiles are generally flat. It is hard to assess the influence on the powerlines on the profiles of lines 5200 N to 7000 N but some of the variation in magnetic intensity near the powerlines may have some direct influence from them. Other variation in field intensity may be due to changes in rock type as the Tyndall Group rocks contain variable amounts of detrital magnetite. When superimposed over the 1:5000 geological interpretation (Plans 1 and 2) the magnetics reveal little information to aid distinction between the andesites and the overlying Tyndall Group, although there is often a deflection in the profile line at or near the contact. In conclusion, the information that can be interpreted from the data is limited by the wide spacing between lines (~400m) and a new survey with lines 100-200m apart may be useful.

5.6 Down hole EM Surveys

Drill holes TYN006 and 007 were surveyed by CRONE three component TEM by Outer Rim Exploration Services in June 1994. The results were affected by powerline effects and were inconclusive. A report is included as Appendix 7. TYN008 has not been surveyed as yet.

6. RECOMMENDATIONS

Recent diamond drilling near Tyndall Creek has shown that the Howards Anomaly exhalative horizon can be traced to the south. Minor base metal sulphides were reported in a sequence of carbonates, black siltstones and volcaniclastic sandstones at the base of the Tyndall Group in drill hole TYN006. A similar sequence was intersected in drill hole TYN007 however base metal analyses were very low. Examination of the available data suggests that the sequence intersected in TYN006 is probably more proximal than that in TYN007.

Future exploration should examine the downdip continuation of the exhalite horizon intersected in TYN006. Other targets include drilling the andesite/Tyndall Group contact near the intersection with the Great Lyell Fault in the south of the EL.

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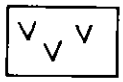
APPENDIX 1

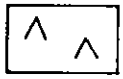
Symbols and codes used in drill logs

SYMBOLS FOR COHERENT TEXTURES

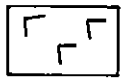
- single line symbols for low to moderate phenocryst abundance
- double line symbols for abundant phenocrysts
- smaller symbols for fine grained phenocrysts
- larger symbols for coarse grained phenocrysts
- additional "+" symbol for coarse, phenocryst-rich granitoid texture

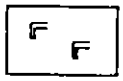

basalt, poorly to moderately porphyritic basalt

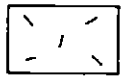

phenocryst-rich basalt

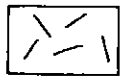

andesite, poorly to moderately porphyritic andesite


phenocryst-rich andesite

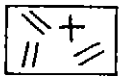

dacite, poorly to moderately porphyritic dacite


phenocryst-rich dacite

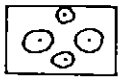

fine, poorly to moderately porphyritic rhyolite


coarse, poorly to moderately porphyritic rhyolite


coarse, phenocryst-rich rhyolite

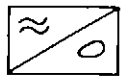

coarse rhyolitic porphyry


flow foliation

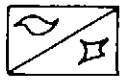

spherulites, lithophysae, alteration spots, nodular devitrification texture

SYMBOLS FOR VOLCANICLASTIC TEXTURES

- closer spaced symbols for dominant grain size and grain type


pumice or relict pumice


angular, juvenile lava clasts

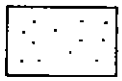

fiamme/
vitriclast or relict vitriclast

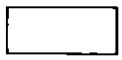

accretionary lapilli

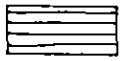

angular, polymict lithic clasts

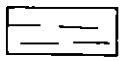

rounded, polymict lithic clasts


mudstone intraclast

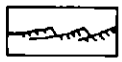

sand-size particles, granular texture


mud-size particles

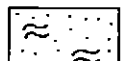

distinct planar stratification


diffuse planar stratification


cross bedding


micro-cross lamination

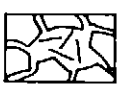
e.g.


pumice clasts in sand matrix


angular polymict lithic clasts and mudstone intraclasts in sand matrix

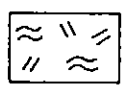
SYMBOLS FOR JUVENILE-CLAST-RICH DEPOSITS


jigsaw-fit texture of fine, moderately porphyritic rhyolite


jigsaw-fit texture of coarse, moderately porphyritic rhyolite


jigsaw-fit texture of coarse phenocryst-rich andesite


pumice-clast-rich deposit, coarse, moderately porphyritic rhyolitic composition


pumice-clast-rich deposit, coarse, phenocryst-rich rhyolitic composition

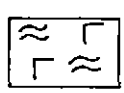

pumice-clast-rich deposit, coarse, moderately porphyritic dacitic composition

Fig. 9—Recommended composition and texture symbols for graphic logging of volcanic deposits.
(From:- McPhie, Doyle and Allen. CODES 1993)

ROCK TYPE:

ALTR	Altered Rock	GRAN	Granite	QTZT	Quartzite
AREN	Arenite				
ARLB	Arenite, Labile	HORN	Hornfels	SAND	Sandstone
ARLI	Arenite, Lithic			SCST	Schist
ARKS	Arkose	IRST	Ironstone	SMMS	Semi-Massive Sulphide
				SERP	Serpentinite
BREC	Breccia	LAMP	Lamprophyre	SHAL	Shale
BRPM	Polymict Breccia	LIMS	Limestone	SLST	Siltstone
		LTWC	Lithicwacke	SLSH	Siltstone with Shale
CARB	Carbonate			STRN	Stain
CHRT	Chert	MSGR	Massive Graphite	SLAT	Slate
CLAY	Clay (unconsolidated)	MSPY	Massive Pyrite	STRM	Structural Measurement (alt. STR)
CONG	Conglomerate	MSSL	Massive Sulphide		
CGPM	Polymict Conglomerate	MELN	Melange	TILL	Glacial Till
CGSC	Siliciclastic Congl.	MDST	Mudstone	TLIT	Tillite
CLOS	Core Loss	MYLN	Mylonite	TRBD	Turbidite
DOLM	Dolomite	NOCR	No core (precollar)	ULMF	Ultramafic
FALT	Fault	PBSN	Pebbly Sandstone	VEIN	Vein
FTBR	Fault Breccia				
FTSZ	Fault/Shear Zone				

Volcanic Rocks

E	Epiclastic	)	
L	Lava	)	
P	Porphyry	)	TYPE
VO	Volcanic (General)	)	
V	Volcaniclastic	)	
A	Andesitic	)	
B	Basaltic	)	
D	Dacitic	)	
FL	Felsic	)	COMPOSITION
MA	Mafic	)	
R	Rhyolitic	)	
U	Ultramafic	)	
X	Crystal-rich		
F	Feldspar Phyric	)	
QF	Quartz-Feldspar Phyric	)	CRYSTAL TYPE
Q	Quartz Phyric	)	
BK	Blocky	)	
BR	Breccia	)	
C	Coarse	)	
M	Medium (Sandy)	)	GRAINSIZE
S	Fine (Silty)	)	
S	Very Fine (Shaley)	)	
/	Undifferentiated		

Examples

VOFL	Undiff. Felsic Lavas & Volcaniclastics
VBK	Blocky Volcaniclastic
VMAC	Coarse Mafic Volcaniclastic
VDM	Sandy Dacitic Volcaniclastic
VS	Silty Volcaniclastic
VS	Shaley Volcaniclastic
VS/	Undiff. Fine-grained Volcaniclastics
VEFL	Felsic Volcaniclastics & Epiclastics
VABR	Andesitic Volcaniclastic Breccia
VOQF	Quartz-Feldspar Phyric Volcanic
LRF	Feldspar-Phyric Rhyolitic Lava
PQF	Quartz-Feldspar Phyric Porphyry
VX/	Undiff. XL-Rich Volcaniclastic
VXQF	Quartz-Feld. Phyric XL-Rich Volcaniclastic
EAXC	Coarse XL-Rich Andesitic Epiclastic
EXM	Sandy XL-Rich Epiclastic
EXS	Silty XL-Rich Epiclastic
EMA/	Undiff. Mafic Epiclastics
EBK	Blocky Epiclastics
EC	Coarse Epiclastics
EDM	Sandy Dacitic Epiclastics
ES	Silty Epiclastics
EBS	Shaley Basaltic Epiclastics

TYPE

U - Volcanic (general)
V - Volcaniclastic
E - Epiclastic
L - Lava
I - Intrusive
P - Porphyry

COMPOSITION

R - Rhyolite
Y - Rhyodacite
D - Dacite
A - Andesite
B - Basaltic
F - Felsic
M - Mafic
U - Ultramafic

CRYSTAL TYPE

X - Crystal rich
A - Aphyric
F - Feldspar phyric
< - Feldspar - quartz phyric
> - Quartz - feldspar phyric
Q - Quartz phyric
H - Hornblende phyric
P - Pyroxene phyric
B - Biotite phyric
V - Vitric/glassy
L - Lithic rich

GRAINSIZE

B - Breccia
C - Coarse
M - Medium (Sandy)
F - Fine (Silty)
V - Very fine (Shaley)
A - Ashy
/ - Undifferentiated

ALTERATION

P - Pyrite
$ - Mineralised
Q - Quartz
O - Chlorite
C - Carbonate
H - Hematite
S - Sericite
K - K feldspar
A - Albite
E - Epidote
F - Fuchsite
M - Magnetite

N - Scale

1 - Very Weak
3 - Weak
5 - Moderate
7 - Strong
9 - Intense

APPENDIX 2

Summary logs of old drill holes

837028

HOLE NO.	NORTHING	EASTING	AZIMUTH	DIP	DEPTH	EL NO.	ANNUAL REPORT AUTHOR	YEAR	COMMENTS
BL801	5352330	380918		90	228.45	12/65	H.V. WUERCH	1971	
BL802	5352649	381090		90	67.67	12/65	H.V. WUERCH	1971	
BL001	5352630	380968	104	70	484.0	9/66	R.M.D. MEARES	77/78	
BL002	5353404	380852	094	60	296.0	9/66	R.M.D. MEARES	77/78	
BL003	5353994	380985	099	55	451.0	9/66	R.M.D. MEARES, M.J. HUTTON & P KOMYSHAN	80/81	
BL004	5353865	380736	256	50	289	9/66	R.M.D. MEARES, M.J. HUTTON & P KOMYSHAN	80/81	
BL005	5353654	380540	075	51	345.5	9/66	F.G. FITZGERALD & C.F. D. PEASE	84/85	
BLD 89-3	5352340	381155	095	60	388.4	103/87	S.M. RICHARDSON	1993	
TYN001	5355663	380960	278.5	40	223.7	9/66	N.P. STEVENS-HOARE	74/75	
TYN003	5356629	380570	098.5	60	365.8	9/66	N.P. STEVENS-HOARE	74/75	
TYN004	5356192	381111	271	48	250.4	9/66	F.G. FITZGERALD	86/87	
TYN005	5356596	381082	272	45	372.7	9/66	F.G. FITZGERALD	86/87	
TYN006	5356945.5	381336.7	246.53	58.6	355.5	14/93	THIS REPORT	1994	
TYN007	5356652.1	381351.1	248.42	67.9	349.5	14/93	THIS REPORT	1994	
TYN008	5356136.1	381269.7	270	68	205.8	14/93	THIS REPORT	1994	

SUMMARY LOGS

BL801 No core was available for this hole. The following brief log was taken from Wuerch, 1971 (TCR 71-729).

0 - 21.3m	Glacial Moraine (QPG)
21.3 - 131.4m	Grey-black slate with sparse disseminations and numerous veinlets of pyrite. Bedding angle = 5° to core axis.
131.4 - 147.5m	Porphyritic quartz-andesite containing up to 5% disseminated pyrite and variable small amounts of galena and sphalerite. Best mineralised zone (133.8 - 144.5m) averaged 0.15% Pb and 0.08% Zn. Foliation angle = 5°.
147.5 - 228.5m	Porphyritic quartz-andesite, very slight sulphide mineralisation. Foliation angle = 5°.

BL802 Core was in very bad condition. The following log is based on recent relogging with additional information from Wuerch, 1971 (TCR 71-729).

0 - 38.7m	Glacial Moraine (QPG)
38.7 - 56.9m	Extremely weathered volcanic rock (Limonitic clay).
56.9 - 63.1m	Pale yellow moderately sericitic - chloritic feldspar phyric cleaved volcaniclastic sandstone (CAV?)
63.1 - 65.5m	Moderately sericitic - chloritic feldspar-(ferromag) phyric andesitic volcaniclastic sandstone. Minor disseminated pyrite (CAV). Wuerch, 1971 reports this interval assays 0.46% Pb, 0.18% Zn, 0.04% Cu and nearly 0.5 oz Ag.

BL001

0 - 29.66m	Glacials (QPG)
29.66 - 161.20	Feldspar phyric Andesite Lava (CA)
161.20 - 170.15	Volcaniclastic sandstone (Calcareous) (CAV)
170.15 - 178.90	Feldspar-hornblende phyric Andesite Lava (CA)
178.90 - 181.90	Feldspar phyric Andesite Lava and breccia (CA)
181.90 - 183.00	Volcaniclastic siltstone (Calcareous) (CAV)
183.00 - 195.00	Feldspar phyric Andesite Lava (CA)
195.00 - 203.00	Feldspar-hornblende phyric Andesite Lava (CA)
203.00 - 204.80	Feldspar phyric Andesite Lava Breccia (CA)
204.80 - 217.60	Volcaniclastic conglomerate (calcareous), sandstone and siltstone (CAV)
217.60 - 254.60	Feldspar-hornblende phyric Andesite Lava (CA)
254.60 - 274.70	Andesitic volcaniclastic conglomerate and sandstone (CAV)

	274.70 - 282.07	Andesitic Lavas and interbedded Limestone (massive carbonate) (CA + CCARB)
	282.07 - 292.45	Andesitic Lavas with stockwork zones of hematitic carbonate (CA)
	292.45 - 294.47	Andesitic Lava (CA)
	294.47 - 306.30	Volcaniclastic sandstone (CAV)
	306.30 - 329.36	Volcaniclastic siltstone. Quartz phyric after 321.0m. (CTS)
	329.36 - 447.60	Quartz-feldspar phyric Lava (CTL)
	447.60 - 464.48	Volcaniclastic sandstone (CTT)
	464.48 - 469.20	Volcaniclastic siltstone (CTS)
	469.20 - 484.00	Volcaniclastic sandstone (Comstock Tuff) (CTT)
BL002	0 - 27.30m	Glacials (QPG)
	27.30 - 78.60	Feldspar-hornblende phyric Andesite Lava (CA)
	78.60 - 118.90	Andesitic volcaniclastic sandstone (CAV)
	118.90 - 187.20	Feldspar phyric Andesite Lava (CA)
	187.20 - 192.80	Fault
	192.80 - 197.84	Volcaniclastic sandstone with interbedded siltstones (CTS)
	197.84 - 222.51	Pyritic calcareous black siltstone (CTS)
	222.51 - 227.93	Andesitic Volcaniclastic sandstone. Resedimented hyaloclastite with carbonate rich matrix. (CAV)
	227.93 - 296.00	Andesitic Lava breccias with interbedded carbonates (CA)
BL003	0 - 10.00m	No Core
	10.00 - 34.00	Glacial Till and Clay (QPG)
	34.00 - 55.00	Weathered Andesite Lava (CA)
	55.00 - 77.00	Andesitic Volcaniclastic sandstone. (CAV)
	77.00 - 80.70	Fault
	80.70 - 85.00	Andesite Lava (CA)
	85.00 - 88.50	Fault
	88.50 - 94.00	Andesite Lava (CA)
	94.00 - 105.90	Andesite Lava Breccia (CA)
	105.90 - 108.00	Fault
	108.00 - 246.80	Andesite Lava and Breccias (CA)
	246.80 - 284.00	Andesitic Volcaniclastic sandstone. (CAV)
	284.00 - 383.33	Andesite Lava (CA)
	383.33 - 393.50	Andesitic Volcaniclastic sandstone. (CAV)
	393.50 - 451.00	Feldspathic volcaniclastic sandstone and siltstone (CTS)

BL004	0.0 - 7.0m	Glacials (QPG)
	7.0 - 10.0	Weathered andesite (CA)
	10.0 - 27.0	Andesite Lava (CA)
	27.0 - 39.15	Andesitic volcaniclastic siltstone and sandstone (CAV)
	39.15 - 39.90	Andesite Lava (CA)
	39.90 - 43.20	Andesitic volcaniclastic siltstone (CAV)
	43.20 - 45.50	Andesite Lava (CA)
	45.50 - 46.00	Andesitic volcaniclastic siltstone (CAV)
	46.00 - 52.20	Andesite Lava (CA)
	52.20 - 63.20	Andesitic volcaniclastic siltstone and sandstone (CAV)
	63.20 - 64.70	Fault
	64.70 - 65.40	Andesitic volcaniclastic siltstone (Pyritic) (CAV)
	65.40 - 65.60	Massive Pyrite
	65.60 - 68.30	Andesitic volcaniclastic siltstone (Pyritic) (CAV)
	68.30 - 71.50	Massive Pyrite
	71.50 - 77.00	Andesitic volcaniclastic siltstone (Pyritic) (CAV)
	77.00 - 81.20	Andesitic volcaniclastics (CAV)
	81.20 - 111.20	Andesite lava and breccias (CA)
	111.20 - 131.40	Thinly bedded black pyritic siltstone (CTS)
	131.40 - 139.50	Andesite Lava (CA)
	139.50 - 142.60	Thinly bedded black pyritic siltstone (CTS)
	142.60 - 150.20	Andesite lava and breccias (CA)
	150.20 - 171.20	Thinly bedded black pyritic siltstone (CTS)
	171.20 - 214.60	Predominantly Andesite Lavas with interbedded lava breccias and black siltstones (CA)
	214.60 - 225.65	Black Siltstone with interbedded feldspathic volcaniclastic sandstones (CTS)
	225.65 - 289.00	Hornblende-feldspar phyric andesite lava (CA)

BL005	0.0 - 9.0m	Glacials (QPG)
	9.0 - 77.42	Andesite Lava (CA)
	77.42 - 78.70	Fault
	78.70 - 88.08	Andesite Lava (CA)
	88.08 - 90.22	Thinly bedded black siltstone (CTS)
	90.22 - 107.71	Andesite lava and breccias (CA)
	107.71 - 117.90	Thinly bedded black siltstone (CTS)
	117.90 - 120.90	Andesite Lava (CA)
	120.90 - 123.47	Thinly bedded black siltstone (CTS)
	123.47 - 213.70	Andesite Lava (CA)
	213.70 - 222.10	Thinly bedded black siltstone (CTS)
	222.10 - 224.90	Feldspar phyric volcaniclastic sandstone (CAV)
	224.90 - 230.82	Feldspar phyric volcaniclastic siltstone (CAV)
	230.82 - 264.51	Dacitic volcaniclastics with interbedded pink - grey carbonates and dacitic lavas (CTS)
	264.51 - 300.38	Dacitic (Feldspar phyric) Lava (CTL)
	300.38 - 311.80	Volcaniclastic siltstone (CTS)

	311.80 - 317.40	Dacitic (Feldspar phyric) Lava (CTL)
	317.40 - 331.17	Dacitic Volcaniclastic sediments (CTS)
	331.17 - 345.50	Dacitic (Feldspar phyric) Lava (CTL)
BLD 89-3	0 - 34.10m	Glacials (QPG)
	34.10 - 160.15	Quartz-feldspar phyric lava - Rhyolite (CTL)
	160.15 - 167.70	Dacitic (Feldspar phyric) volcaniclastic sandstone (CTS)
	167.70 - 197.58	Quartz-feldspar phyric lava - Rhyolite (CTL)
	197.58 - 239.96	Feldspar phyric volcaniclastic sandstone (CTS)
	239.96 - 250.14	Dacitic (Feldspar phyric) Lava (CTL)
	250.14 - 256.85	Medium grained volcaniclastic sandstone (CTT)
	256.85 - 262.35	Dacitic (Feldspar phyric) Lava (CTL)
	262.35 - 276.05	Coarse grained feldspar phyric volcaniclastic (CTT)
	276.05 - 278.00	Dacitic intrusive (CTI)
	278.00 - 283.52	Coarse grained feldspar phyric volcaniclastic (CTT)
	283.52 - 286.20	Dacitic (Feldspar phyric) Lava Breccia (CTL)
	286.20 - 297.20	Dacitic (Feldspar phyric) Lava (CTL)
	297.20 - 322.89	Medium grained Feldspar rich volcaniclastic sandstone (CTT)
	322.89 - 327.27	Dacitic (Feldspar phyric) Lava (CTL)
	327.27 - 343.30	Medium grained feldspar rich volcaniclastic sandstone (CTT)
	343.30 - 349.80	Dacitic (Feldspar phyric) Lava (CTL)
	349.80 - 360.15	Coarse grained feldspar phyric volcaniclastic sandstone (CTT)
	360.15 - 360.48	Fault (Great Lyell Fault)
	360.48 - 388.40	Newton Creek Sandstone (COon)

TYN001	0.0 - 28.96	No core available. Probably glacials. (QPG)
	28.96 - 53.47	Medium grained crystal rich volcaniclastic sandstone and conglomerate (CTT)
	53.47 - 73.51	Thinly bedded black pyritic siltstone (CTS)
	73.51 - 78.21	Coarse-medium grained crystal rich volcaniclastic sandstone (CTS)
	78.21 - 85.95	Thinly bedded black pyritic siltstone (CTS)
	85.95 - 94.08	Medium grained volcaniclastic sandstone (CTS)
	94.08 - 107.72	Thinly bedded black pyritic siltstone (CTS)
	107.72 - 114.02	Medium grained volcaniclastic sandstone (CTS) Possible fold repeat of 85.95 - 94.08.
	114.02 - 115.52	Thinly bedded black pyritic siltstone (CTS) Possible fold repeat of 78.21 - 85.95.
	115.52 - 118.87	Medium grained volcaniclastic sandstone (CTS)
	118.87 - 128.32	Highly broken thinly bedded black siltstone with quartz veining. Possible fault zone. (CTS)
	128.32 - 156.72	Thinly bedded black siltstone (CTS)
	156.72 - 167.03	Medium grained volcaniclastic sandstone (CTS)
	167.03 - 223.72	Andesite lava and breccias (CA)

TYN002 TYN002 was drilled at the Bradshaws Road pyrite alteration zone and was not relogged for the project.

TYN003	0.0 - 16.8	Glacials (QPG)
	16.8 - 32.3	Medium-fine grained volcaniclastic sandstone (CTS)
	32.3 - 62.6	Coarse grained feldspar-quartz phyric volcaniclastic sandstone and conglomerate. Graded massflow deposit. (CTT)
	62.6 - 65.9	Medium grained quartz-feldspar phyric volcaniclastic sandstone (CTS)
	65.9 - 112.9	Ashy tuffaceous siltstone (CTS)
	112.9 - 194.2	Andesite lava (CA)
	194.2 - 202.1	Massive carbonate and andesitic volcaniclastic sandstone (CCARB)
	202.1 - 209.7	Andesite breccias (CA)
	209.7 - 227.4	Massive carbonate and andesitic volcaniclastic sandstone (CCARB)
	227.4 - 240.5	Andesite lava (CA)
	240.5 - 259.4	Fine-medium grained ashy volcaniclastic sandstone (CTS)
	259.4 - 261.1	Thinly bedded black pyritic siltstone (CTS)
	261.1 - 279.8	Coarse grained feldspar-quartz? phyric volcaniclastic sandstone (CTT)
	279.8 - 293.8	Thinly bedded black pyritic siltstone (CTS)

	293.8 - 303.3	Medium-coarse grained feldspar-quartz phyric volcaniclastic sandstone (CTT)
	303.3 - 308.8	Thinly bedded black pyritic siltstone (CTS)
	308.8 - 312.5	Medium-coarse grained feldspar-quartz phyric volcaniclastic sandstone (CTT)
	312.5 - 316.5	Thinly bedded black pyritic siltstone (CTS)
	316.5 - 322.2	Medium-coarse grained feldspar-quartz phyric volcaniclastic sandstone (CTT)
	322.2 - 331.3	Thinly bedded black pyritic siltstone (CTS)
	331.3 - 365.8	Andesite Lava (CA)
TYN004	0.0 - 36.40	Glacials (QPG)
	36.4 - 40.40	Andesitic volcaniclastic sandstone (CAV)
	40.40 - 55.04	Massive Carbonate (CCARB)
	55.04 - 63.11	Andesitic volcaniclastic sandstone (CAV)
	63.11 - 65.90	Massive Carbonate (CCARB)
	65.90 - 74.29	Andesite Lava (CA)
	74.29 - 75.80	Massive Carbonate (CCARB)
	75.80 - 78.50	Andesite Lava (CA)
	78.50 - 88.40	Massive Carbonate (CCARB)
	88.40 - 128.50	Andesite Lava and Breccias (CA)
	128.50 - 130.90	Massive Carbonate (CCARB)
	130.90 - 143.50	Andesite Lava (CA)
	143.50 - 162.00	Andesite Lava (CA)
	162.00 - 162.50	Massive Carbonate (CCARB)
	162.50 - 197.20	Andesite Lava (CA)
	197.20 - 200.30	Andesite Lava Breccia (CA)
	200.30 - 212.20	Massive Carbonate (CCARB)
	212.20 - 250.40	Andesite Lava and Breccias (CA)
TYN005	0 - 60.1	Feldspar phyric Andesite (CA)
	60.1 - 64.50	Fault
	64.50 - 73.50	Feldspar phyric Andesite (CA)
	73.50 - 74.03	Massive Carbonate (CCARB)
	74.03 - 84.75	Feldspar phyric Andesite (CA)
	84.75 - 87.70	Massive Carbonate (CCARB)
	87.70 - 90.70	Feldspar phyric Andesite (CA)
	90.70 - 94.20	Fault
	94.20 - 115.53	Feldspar phyric Andesite (CA)
	115.53 - 118.60	Massive Carbonate (CCARB)
	118.60 - 243.90	Feldspar phyric Andesite (CA)
	243.90 - 245.10	Massive Carbonate (CCARB)
	245.10 - 279.80	Feldspar phyric Andesite (CA)
	279.80 - 313.70	Feldspar-Hornblende phyric Andesite (CA)
	313.70 - 372.70	Feldspar-Hornblende phyric Andesite (CA)

APPENDIX 3

Drill Log of TYN006

RGC EXPLORATION PTY. LIMITED

PROJECT: BASIN LAKE

DRILL CORE RECOVERY & RQD

HOLE NUMBER: TYN 006 Page: 1 OF 2

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
0·0	3·0	3	0·85	0·14		
3·0	6·0	3	2·95	1·65		
6·0	9·0	3	3·0	0·87		
9·0	12·0	3	3·0	1·55		
12·0	15·0	3	3·0	1·92		
5·0	18·0	3	1·7	0·55		
18·0	21·0	3	2·93	2·32		
21·0	24·0	3	3·0	1·58		
24·0	27·0	3	3·0	1·92		
27·0	30·0	3	2·96	1·73		
30·0	32·5	2·5	2·5	2·2		
32·5	34·5	2	1·78	1·42		
34·5	37·5	3	2·9	2·72		
37·5	40·5	3	2·88	1·63		
40·5	43·5	3	3·08	2·56		
43·5	46·5	3	3·0	2·63		
46·5	48·3	1·8	1·80	1·77		
48·3	51·4	3·1	3·1	2·73		
51·4	54·5	3·1	3·08	2·61		
54·5	55·4	0·9	0·85	0·85		
55·4	57·0	1·6	1·6	1·03		
57·0	58·5	1·5	1·5	1·34		
58·5	61·5	3	3·0	2·4		
61·5	64·5	3	3·0	2·69		
64·5	67·5	3	2·96	2·38		
67·5	70·5	3	2·97	2·47		
70·5	73·5	3	2·95	2·27		
73·5	76·5	3	3·0	2·03		
76·5	79·5	3	2·98	2·05		
79·5	82·5	3	3·0	2·6		
82·5	85·5	3	2·97	2·7		
85·5	88·5	3	3·05	2·79		
88·5	91·5	3	2·95	2·55		
91·5	94·5	3	3·08	2·67		
94·5	97·5	3	2·97	2·75		
97·5	100·5	3	2·9	2·6		

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
100·5	103·5	3	3·0	2·66		
103·5	104·5	1	1·0	0·94		
104·5	106·5	2	2·0	1·43		
106·5	109·5	3	2·97	2·95		
109·5	112·5	3	3·0	2·79		
112·5	115·5	3	3·0	2·82		
115·5	118·5	3	2·98	2·64		
118·5	121·5	3	2·94	2·85		
121·5	124·5	3	2·95	2·78		
124·5	127·5	3	2·98	2·69		
127·5	130·5	3	3·0	2·83		
130·5	133·5	3	2·97	2·74		
133·5	136·5	3	2·96	2·57		
136·5	139·5	3	2·99	2·89		
139·5	142·5	3	2·96	2·73		
142·5	145·5	3	3·0	2·79		
145·5	148·5	3	2·93	2·54		
148·5	151·5	3	2·95	2·87		
151·5	154·3	2·8	2·63	1·73		
154·3	156·8	2·5	2·26	1·6		
156·8	159·2	2·4	2·3	1·11		
159·2	160·5	1·3	0·9	0		
160·5	161·9	1·4	1·2	0·77		
161·9	163·5	1·6	1·6	1·27		
163·5	166·5	3	2·9	2·18		
166·5	169·5	3	3·0	2·6		
169·5	172·5	3	2·96	2·27		
172·5	175·5	3	3·0	2·45		
175·5	178·5	3	3·1	2·16		
178·5	181·5	3	2·9	2·4		
181·5	184·5	3	3·07	2·34		
184·5	187·5	3	2·94	2·82		
187·5	190·5	3	3·07	2·02		
190·5	193·5	3	3·0	2·02		
193·5	196·5	3	3·0	2·42		
196·5	199·5	3	2·95	2·4		

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
199·5	202·5	3	2·9	2·18		
202·5	205·5	3	3·0	2·06		
205·5	208·5	3	2·93	2·5		
208·5	211·5	3	2·96	2·73		
211·5	214·5	3	3·05	2·3		
214·5	217·5	3	2·95	2·22		
217·5	218·8	1·3	1·18	0·23		
218·8	220·5	1·7	1·63	0·78		
220·5	221·9	1·4	1·15	0·25		
221·9	223·9	2	1·74	0·44		
223·9	226·5	2·6	2·6	2·15		
226·5	229·5	3	2·96	2·4		
229·5	232·5	3	2·88	1·67		
232·5	234·5	2	1·8	0·57		
234·5	237·5	3	3·1	2·18		
237·5	240·6	3	2·9	2·0		
240·6	241·5	0·9	0·8	0·75		
241·5	244·5	3	3·0	2·85		
244·5	247·5	3	2·93	2·73		
247·5	250·5	3	3·0	2·93		
250·5	253·5	3	2·92	2·82		
253·5	256·5	3	2·0	2·92		
256·5	259·5	3	2·98	2·7		
259·5	262·5	3	3·0	2·63		
262·5	265·5	3	3·0	2·89		
265·5	268·5	3	2·96	2·56		
268·5	271·5	3	2·88	2·67		
271·5	274·5	3	2·91	2·80		
274·5	276·2	1·7	1·70	1·54		
276·2	277·5	1·3	1·12	1·3		
277·5	280·5	3	3·0	2·58		
280·5	283·5	3	2·93	2·54		
283·5	284·5	1	0·96	0·85		
284·5	286·5	2	1·90	1·85		
286·5	289·5	3	3·0	2·58		
289·5	292·5	3	3·0	2·82		

RGC EXPLORATION PTY. LIMITED

PROJECT: BASIN LAKE

DRILL CORE RECOVERY & RQD

HOLE NUMBER: TYN 006 Page: 2 of 2

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY ACTUAL REC	YES/NO RQD	%	COMMENTS
292·5	295·5	3	2·97	2·72		
295·5	298·5	3	3·0	2·79		
298·5	301·5	3	2·94	2·56		
301·5	304·5	3	2·96	1·99		
304·5	307·5	3	3·0	1·73		
307·5	310·5	3	2·83	2·21		
310·5	313·5	3	3·0	2·54		
313·5	316·5	3	2·95	2·90		
316·5	319·5	3	2·88	2·24		
319·5	322·5	3	2·93	2·1		
322·5	325·5	3	2·91	2·90		
325·5	326·3	0·8	0·8	0·67		
326·3	328·5	2·2	2·2	1·8		
328·5	331·5	3	2·89	2·67		
331·5	334·5	3	3·0	2·66		
334·5	337·5	3	2·94	2·85		
337·5	340·5	3	2·93	2·62		
340·5	343·5	3	3·0	2·86		
343·5	346·5	3	2·99	2·90		
346·5	349·5	3	2·96	2·69		
349·5	352·5	3	2·89	2·68		
352·5	355·5	3	3·0	2·83		
355·5	(EOH)					

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY ACTUAL REC	YES/NO RQD	%	COMMENTS

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY ACTUAL REC	YES/NO RQD	%	COMMENTS

8013

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

DEV. PROG

HOLE NO.: T4N006.
STATE : TAS

PROJECT	BASIN LAKE
DESIGNED BY	MJV + SWH
LOGGED BY	MJV
COMMENCED	23-2-1994
COMPLETED	25-3-1994

PURPOSE

LOG SUMMARY

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5 356 945·5
EASTING	381 336·7
R.L.	529·1
GRID	
LENGTH	355·5 m

HOLE CONDITION

SIZE Hole Size	SIZE Depth	
HQ	0-32·5	(Cased)
NQ	32·5-355·5	

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type) (Bearing = AMG)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0	246°32'	58·6	0	20	20	17·07	17·07	10·42	10·42
40	240	58	20	50	30	25·44	42·51	15·90	26·32
60	242	57·5	50	75	25	21·08	63·59	13·43	39·75
90	243	56	75	105	30	24·87	88·46	16·78	56·53
120	240·5	55·5	105	135	30	24·72	113·18	16·99	73·52
150	243	52·8	135	165·5	30·5	24·29	137·47	18·44	91·96
181	241	51	165·5	195·5	30	23·31	160·78	18·88	110·84
210	239	49·4	195·5	225	29·5	22·40	183·18	19·20	130·04
240	240	47·3	225	255·5	30·5	22·41	205·69	20·68	150·72
271	242	45	255·5	285·5	30·0	21·21	226·80	21·21	171·93
300	239	42·3	285·5	315	30·5	20·53	247·33	22·56	194·49
330	241	39·5	315	342·75	27·75	17·65	264·98	21·41	215·90

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
355·5	241	38	342·75	355·5	12·75	7·85	272·83	10·05	225·95
355·5	(EOH)								

RGC EXPLORATION PTY LTD

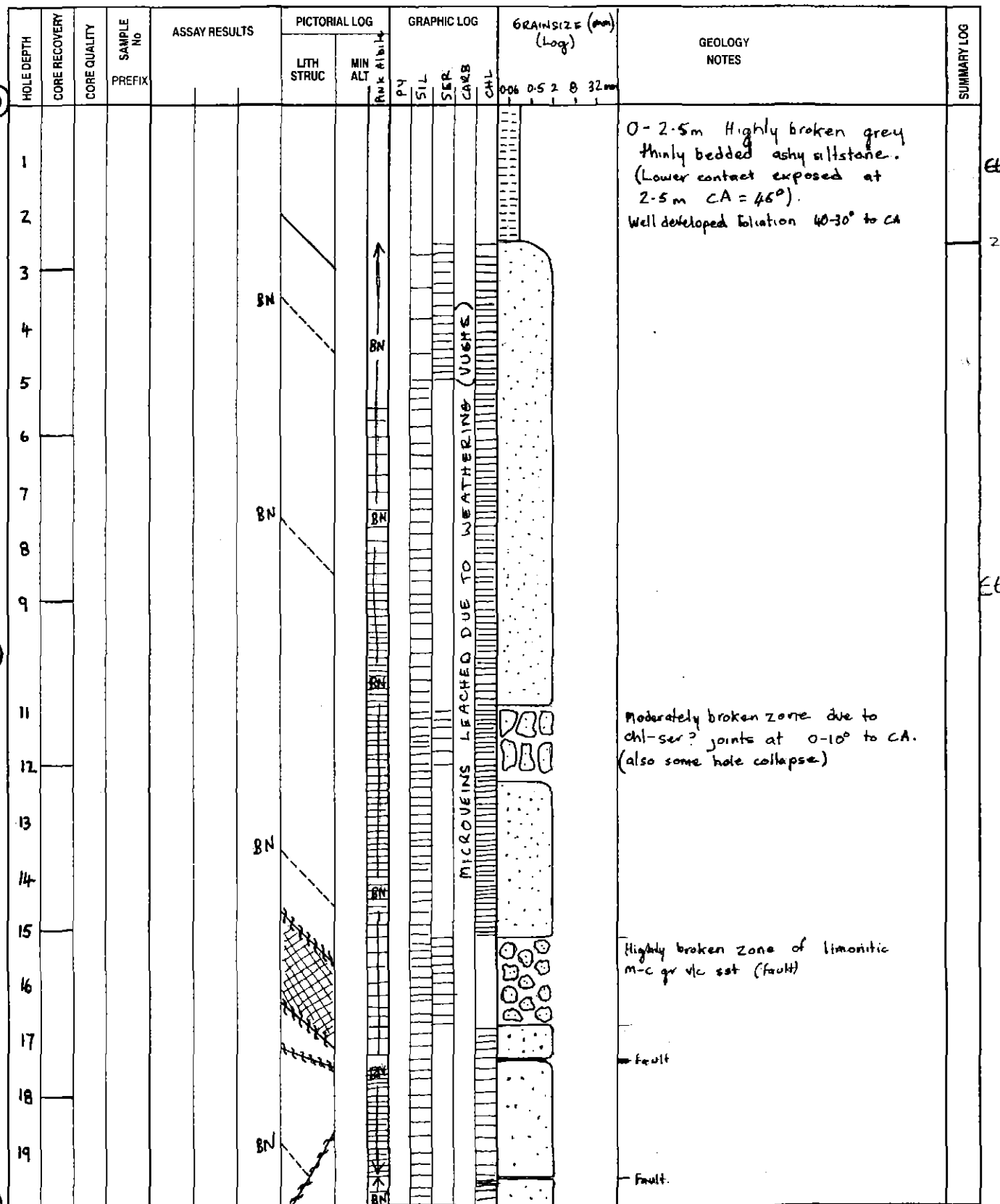
DRILL HOLE No TYN006

SHEET 1 OF 18

PROJECT	EL 14/93 BASIN LAKE
PROSPECT	TYNDALL
DATE	APRIL 1994
LOGGED BY:	MICHAEL VICARY

— Bedding
⌐ Cleavage
▲ Foliation
~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

837039



REMARKS

PA = Patchy Alteration.
BN = Banded Alteration.

5 cm

SCALE 1:100

RGC EXPLORATION PTY LTD

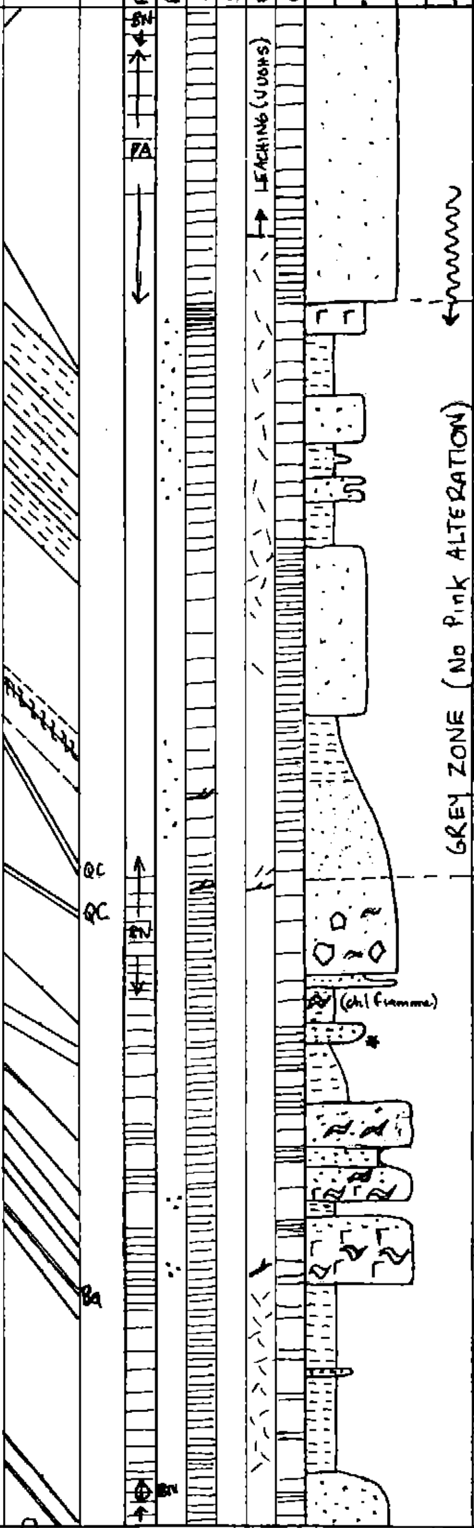
DRILL HOLE No TYN 006

SHEET 2 OF 18

PROJECT :	Basin Lake
PROSPECT :	Tyndall
DATE :	
LOGGED BY:	

Legend:
- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein (v) Q=Qtz C=Carb
- * Visible gold
- Foliation (other than So, CB)

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG (LITH STRUC, MIN ALT, Pink Albite) | GRAPHIC LOG (Py, Sil, Ser, Carb, Chl) | Grain size (mm) 0.06 0.5 2 8 32 | GEOLOGY NOTES | SUMMARY LOG



HOLE DEPTH	GEOLOGY NOTES	SUMMARY LOG
20–23.9	Progressive decrease in Pink Alteration	Ettb 20.6; Ettp
23.9	? Feld phyric Lava or highly silicified v/c sst	23.9 ? 24.3
24.3–27.1	relatively cleaved 1/B grey ashy siltstones and f-m gr feldspar rich volcaniclastic ssts.	Ettsh 25.1; Ets 25.7; Ettsh 26.1; Ets 26.5; Ettsh 27.1
27.1	grey wellsorted f-m gr v/c sst.	Ets
29.3		Ettsh
30		Ettb
23.9–31.4	GREY ZONE (No Pink ALTERATION)	
31.4	↓ Pink Altn.	
32.9	lithic rich base of mainly ignimbrite detritus	Ettsh
33.3	↑ inverse grading * = 3cm Ignimbrite clast.	Ettb
34		Ettsh
34.9		Ettb
35.4		Ettp?
35.9		Ettsh
35.9–36.75	feldspar qtz phyric dacitic Ignimbrite c chl fiamme up to 3cm. chl reworked top.	Eti
36.75–39.29	thinly bedded pink-grey ashy siltstone. 37.90–37.99 v/c sst.	Ettsh
39.29		Ettb; Ettp.

Core: HQ / NQ (at 32.5 m)

Pictorial log annotations: S, V, V, V, BN; QC, QC, Ba; BN, FA, BN, BN; Leaching (Vughs); (chl fiamme)

REMARKS

Q Ba veins.

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 006

SHEET 3 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
⌐ Cleavage
Foliation
Fault, Shear
Breccia
Broken core

Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

B = Barite
C = Carb
P = Pyrite
Q = Qtz

8370411

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG: LITH STRUC	PICTORIAL LOG: MIN ALT (Pink Albite)	GRAPHIC LOG: Py	SIL	SER	CARB	CHL	GRAINSIZE (mm): 0.06 0.5 2 8 32 mm	GEOLOGY NOTES	SUMMARY LOG
40														
41					V	PA							m-c gr feld-Qtz-lithic v/c sst lithics are red-purple ashy volcaniclastic siltstone and fine gr feld phyric Lava	Ettp 41.2
42					BN									
43					BCP	BN								Ettb
44														
45						PA							Pseudoclastic texture due to silica-pink albite patchy alteration. superficially resembles pink lava clasts.	44.8 Ettp 46.4
46														
47					BN									
48					BQ	BN								
49					BN									
50														Ettb
51					V									
52					B									
53					V	CB								
54														
55													Broken core (fault?)	54.5
56													Broken core (fault?)	
57													54.5 – ≃72.0 C gr Qtz-feldspar rich volcaniclastic sst z matrix supported Qtz-feld lava clasts up to 3cm and flamme-like chl patches up to 6 cm	Ettpl
58														
59														
60													← Broken Core	

REMARKS

5 cm

RGC EXPLORATION PTY LTD

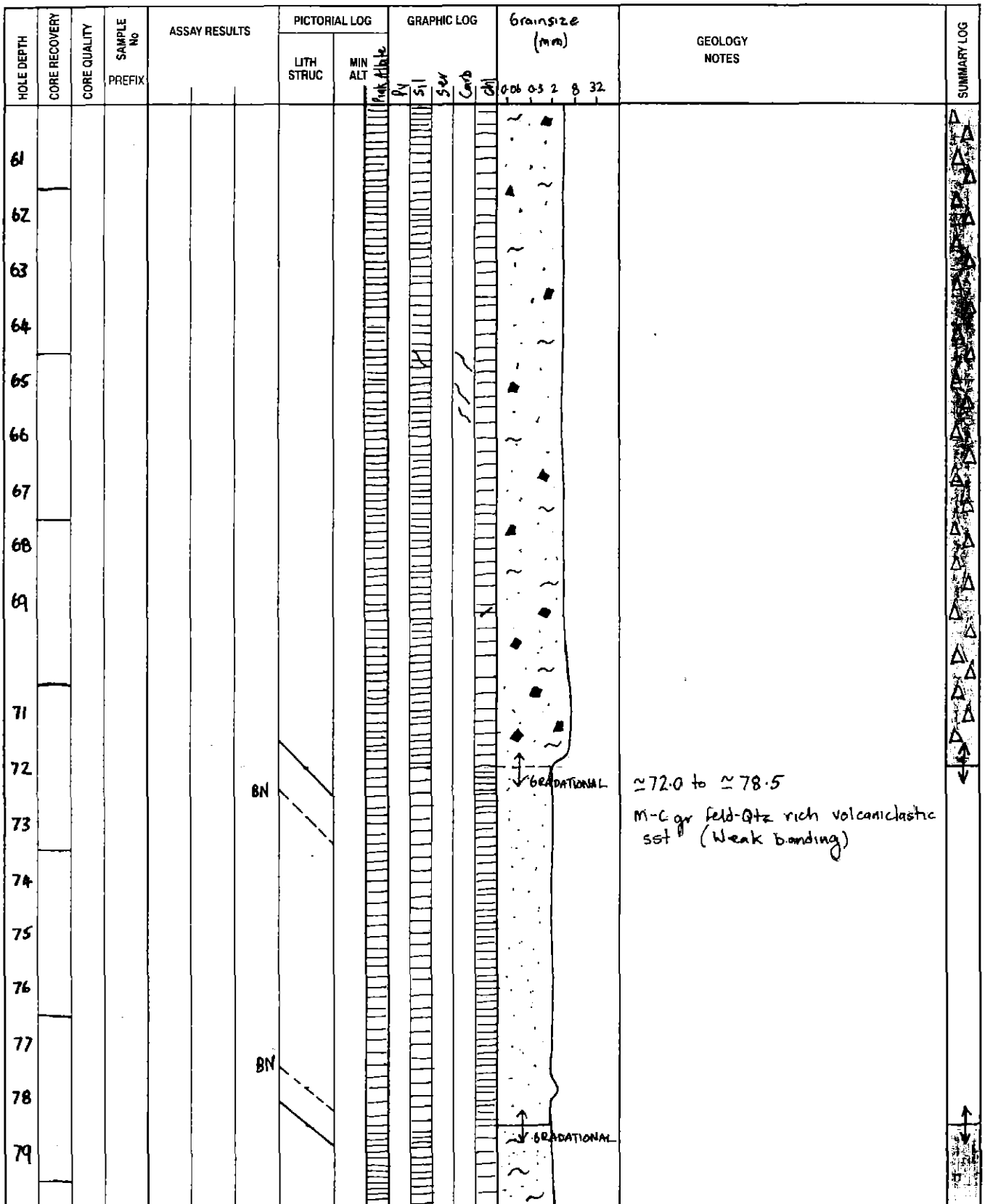
DRILL HOLE No TYN 006

SHEET 4 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
⌐ Cleavage
— Foliation
~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8370412



REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

SHEET 5 OF 18

PROJECT :	Basin Lake
PROSPECT :	Tyndall
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8237043

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG LITH STRUC	PICTORIAL LOG MIN ALT	GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
80									
81						hm Py		78.5 - 91.9 m-c gr feld-Qtz rich volcaniclastic sst. Patchy Pink albite-chl alteration. (Some chl fiamme(?) up to 2cm)	
82					V				
83					V	CQ			
84									
85									Ettp
86									
87									
88									
89									
90									
91						(Pink)			91.9
92					BN		(Sporis)	91.9 - 96.4 m gr feld-Qtz volcaniclastic sst Weak banded Pink albite-chl alteration.	
93									
94									Ettb
95									
96									96.4
97								96.4 - 101.4 m-c gr Qtz-feldspar rich volcaniclastic sandstone	
98									Ettp
99									
100									

Grainsize (mm): 0.06 | 0.5 | 2 | 8 | 32

REMARKS

5 cm

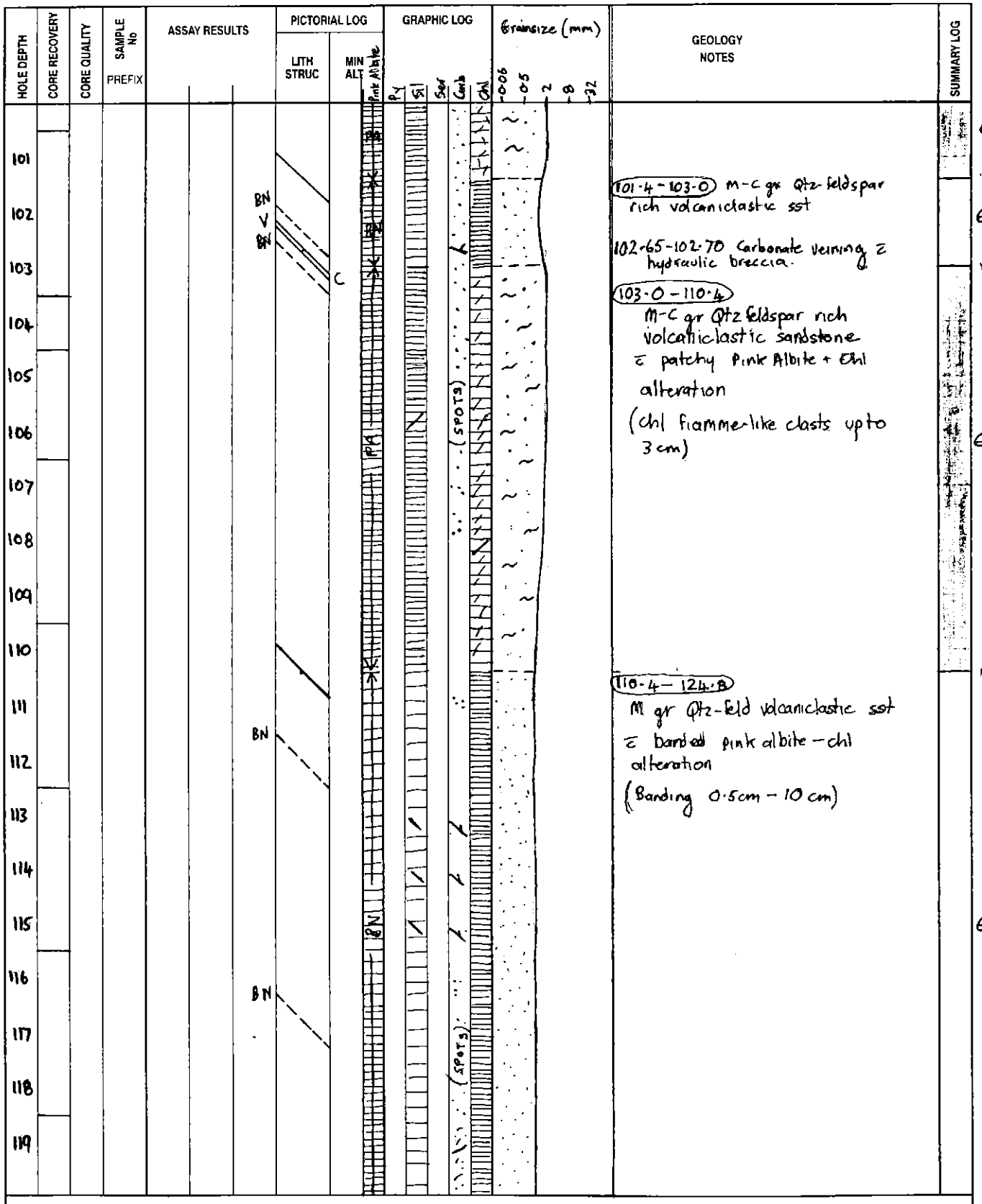
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 006

SHEET 6 OF 18

PROJECT	: BASIN LAKE
PROSPECT	: TYNDALL
DATE	:
LOGGED BY	:

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



REMARKS

5 cm

837044

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 006

SHEET 7 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold
Bleb

8370435

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT | GRAPHIC LOG | grain size (mm) | GEOLOGY NOTES | SUMMARY LOG

120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140

V
BN
C, Ba
Pink Albite
Py
Sil
Ser
Carb
Chl
0.06 0.25 2 8 32

124·8 - 134·4
M-C gr Qtz-feld rich volcaniclastic sst ± patchy chl-Albite alteration. Many of the large chl patches can superficially resemble Fiamme.

134·4
134·6

Fine gr hm feld phyric dacitic lava
Sharp base and reworked top

134·6 - 145·8
M-C gr Qtz-feld rich volcaniclastic sst ± patchy chl-albite alteration. Sparse Chl Fiamme and small lithic fragments

Note: Probably one depositional unit

Ettb
Ettp
Ettp

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 006

SHEET 8 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8370416

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT | GRAPHIC LOG: Py, Sil, Sauss, Carb, Chl | Grainsize (mm): 0.06, 0.5, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160

BN

(7cm)
(8cm)
(10cm)

≃145.8 – 154.05

Matrix supported granule–pebble volcaniclastic conglomerate. Matrix is medium–coarse grained feldspar–quartz rich volcaniclastic sandstone with patchy chl-albite alteration.
Clasts are predominately subrounded to subangular. Clasts are fine gr ashy siltstone, Qtz-feldspar phyric lava and feldspar phyric lava. Some possible chl fiamme also occur.

GRAD.

grainsize 2–3 mm
true grainsize enhanced to show clast rich base.

154.05 – 154.3 broken zone

1554 – 156.4 broken Zone

} devitrified ashy chert clasts up to 5cm.

Ettp
Ettp
Fault
Ettcl
Fault
Ettcl
Ettsh
Ettcl

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

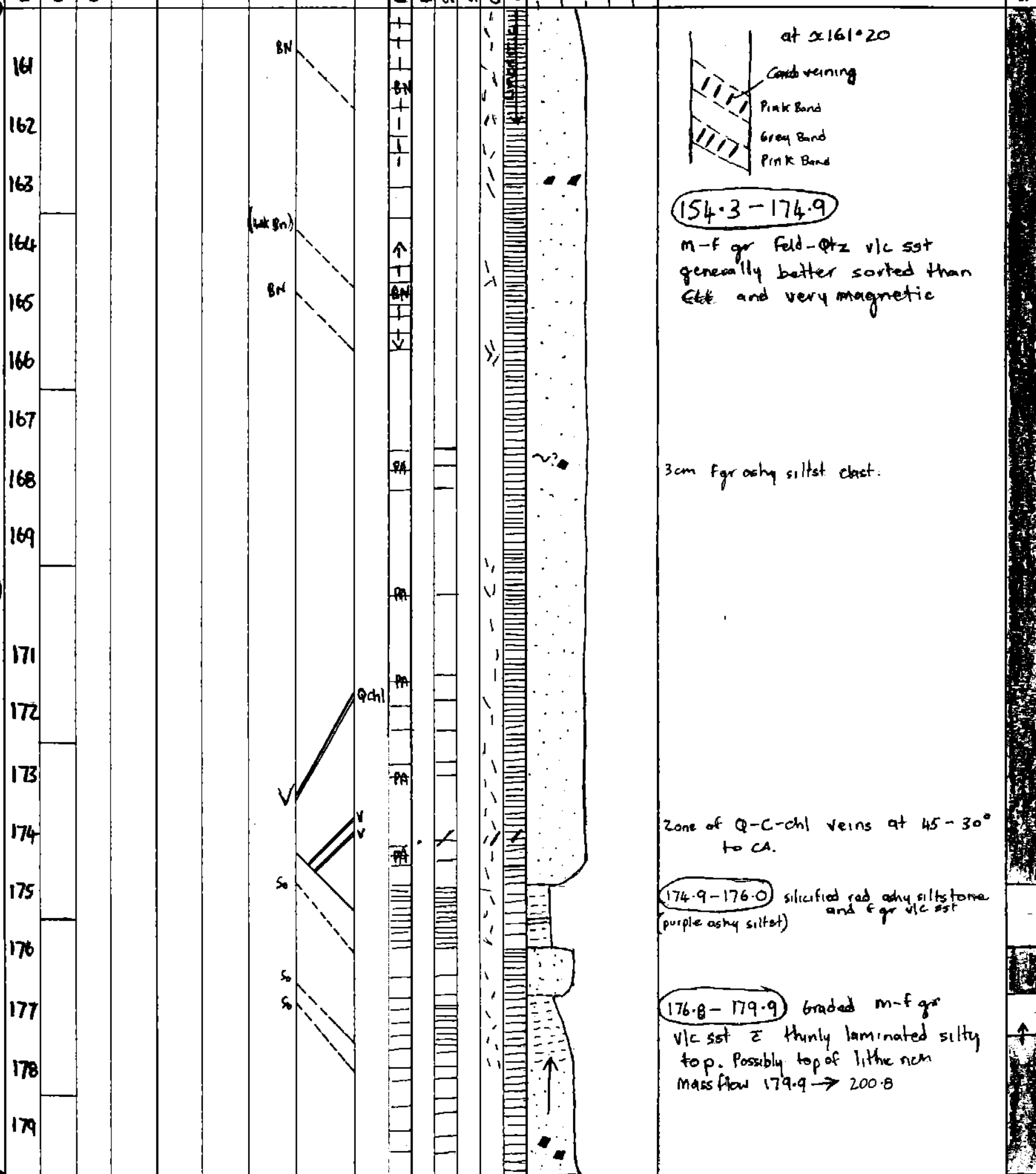
SHEET 9 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Legend: Bedding; Cleavage; Foliation; Fault, Shear; Breccia; Broken core; Disseminated; Massive; Pervasive; Narrow vein; * Visible gold

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG (LITH STRUC, MIN ALT, Pink Albite) | GRAPHIC LOG (Py, Si, Ser, Carb, Chl) | Grainsize (mm) 0.06, 0.5, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

160–180 m



at ≈161.20
Carb veining
Pink Band
Grey Band
Pink Band

(154.3 – 174.9)
m-f gr Feld-Qtz v/c sst generally better sorted than Ettt and very magnetic

3cm fgr ashy siltst clast.

Zone of Q-C-chl veins at 45 - 30° to CA.

(174.9 – 176.0) silicified red ashy siltstone and f gr v/c sst (purple ashy siltst)

(176.8 – 179.9) Graded m-f gr v/c sst c thinly laminated silty top. Possibly top of lithic rich mass flow 179.9 → 200.8

Summary log: Ettcl; Ettsh?; Ettcl; Ettsh (GRAD); Ettcl; Ettclc

REMARKS

5 cm

837047

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

SHEET 10 OF 18

PROJECT	: BASIN LAKE
PROSPECT	: TYNDALL
DATE	:
LOGGED BY:	

— Bedding
⌊⌋ Cleavage
— Foliation
~~~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8370498

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG LITH STRUC	PICTORIAL LOG MIN ALT	GRAPHIC LOG	grainsize (mm)	GEOLOGY NOTES	SUMMARY LOG
180									179.9 - 190.7 Polymict poorly sorted matrix supported volcaniclastic conglomerate/ breccia. subangular lithic fragments include massive carbonate, limestone, QT Lava/ignimbrite, fine gr ashy siltstone (purple colour), weakly pyritic siltstone/sst. Clasts up to 7cm.	
181										
182										
183										
184										
185										Cttclc
186										
187										
188										
189										
190										
191				BN		BN			190.7 - 191.9 Banded m gr v/c sst	Cttcl
192										
193									191.9 - 200.8 very similar to 179.9-190.7 m but also includes possible welded ignimbrite clasts up to 10cm.	
194										
195										
196										Cttclc
197										
198										
199										
200										

REMARKS * massive pyrite clast
◇ carbonate clast

5 cm
~~~

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

SHEET 11 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT | GRAPHIC LOG: Py, Si, Ser, Carb, Chl | GRAINSIZE (mm): 0.06, 0.5, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220

grey ashy siltst.
blk shale
Grey ashy siltstone
Pyr
Pyr
hm
hm
hm
NUMEROUS MICROVEINS + VEINS

200.8 – 203.8
l/b thin laminated black siltstone and grey ashy siltstone.

203.8 – 205.3 Pumice bearing Qtz-feld phyric xtl-lithic ignimbrite. Abundant perlitic cracks in glmass.

205.3 – 206.3 F gr silicified ashy siltstone. Pale Pink Colour. Commonly with hydraulic Fracturing. Two phases present: (A) silicified breccia and (B) a later carbonate matrix breccia. Possible shard textures present and sub mm devitrification spots common. Perlitic cracks in one location.

206.3 – 211.4 pumice bearing Qtz-feld phyric xtl lithic Ignimbrite.

209.9 – 211.4 No chl pumice fragments increase in ser in matrix. looks a bit like a slightly reworked hyalotactitic lava ie abundant shard like splinters of Qf lava form matrix to more coherent clasts of lava.

211.0 – 230.0
White to purple laminated carbonate zones of intense hematization indicated. Also indicated are zones of rhyolitic to dacitic lithic fragments.

SUMMARY LOG: Ettclc, base of Ettcl, Ettsh, Eti, Ettsh, Eti, Eti?, Etcarb

8237049

REMARKS
banding in CO_3
* Red jasper clasts
5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No T4N006

SHEET 12 OF 18

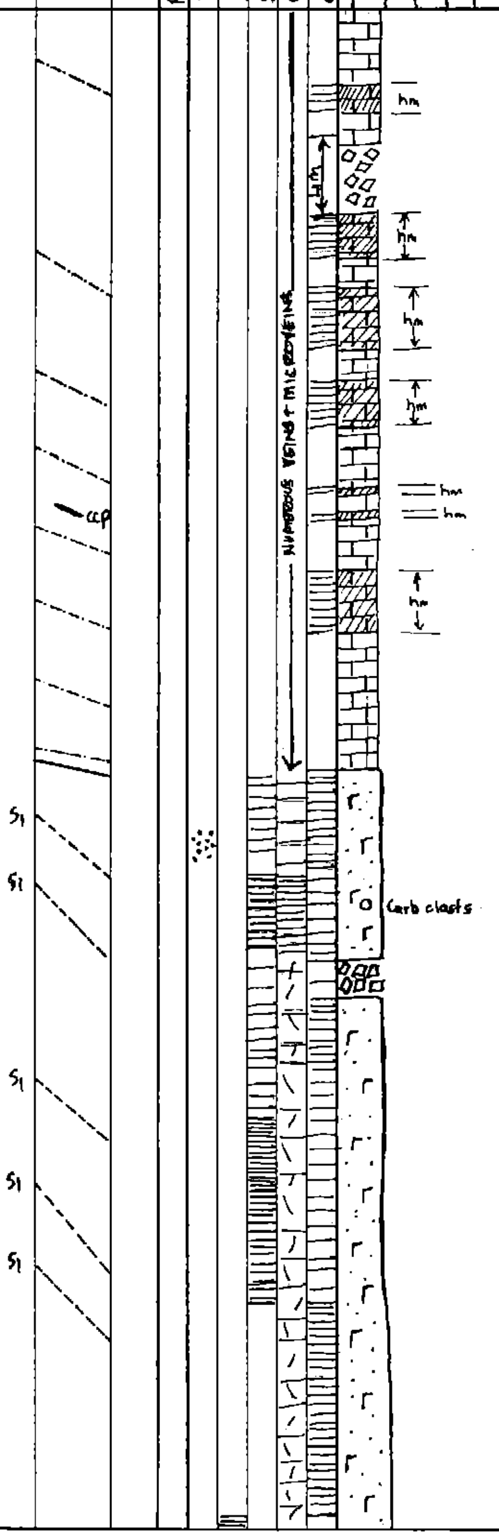
PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Legend:

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

837050

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No / PREFIX	ASSAY RESULTS	PICTORIAL LOG (LITH STRUC / MIN ALT)	GRAPHIC LOG (Pink Albite, Pyr, Si, Ser, Carb, chl)	GRAINSIZE (mm)	GEOLOGY NOTES	SUMMARY LOG
220									
221									Єcarb
222								broken zone, Limonitic joints.	fault ?
223									
224									
225									
226									Єcarb
227									
228									
229									
230								(230.0 - 244.05)	
231								chl-ser-carb altered f-m gr feldspar rich ashy dacitic Volcaniclastic sandstone. Strong foliation.	
232								broken Zone	
233									
234									Єtd
235									
236									
237								↓ Increase in grainsize less sericite alteration and weaker foliation.	
238									
239									
240									



REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

SHEET 13 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Legend: —— Bedding; Cleavage; Foliation; Fault, Shear; Breccia; Broken core; Disseminated; Massive; Pervasive; Narrow vein; * Visible gold

837051

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG LITH STRUC	MIN ALT	GRAPHIC LOG (Pink Albite, Py, Sil, Ser, Carb, Chl)	GRAINSIZE (mm) (0.06, 0.5, 2, 8, 32)	GEOLOGY NOTES	SUMMARY LOG
240										
241					Sn					
242										Ettd
243									← Carbonate - lithic clasts	
244					© ©				244.05-244.7 grey ashy siltstone	Ettdf
245						Ba			sst	Ettds
246					Ba; So				245.8-246.7 Qtz-feld Lava some brecciation	ETL
247								← Carb clasts.	246.7-250.6 f-m gr feld-(Qtz) phyric volcaniclastic sst. Scattered clasts of pink QF Lava and carb.	
248										
249										Ettds
250					C					
251									250.6-251.8 Qtz-feldspar phyric Lava. - some brecciation evident towards top.	ETL
252					V	QCal			251.8-253.3 f-m gr feld-(Qtz) phyric v/c sst. Clasts of pyrite + Carbonate at base.	Ettds
253						(cp)		(pyrite clasts)	253.3-253.6 QF phyric Lava	EtL
254								siltstone	253.6-256.8 M-C gr feld/Qtz phyric v/c sst. Clasts of chl siltstone and pink Lava.	
255										Ettds
256					V Qc; C					
257									257.03-259.05 Close packed lithic rich v/c sst (granule conglomerate)	
258										Ette
259										
260										

REMARKS
• Carb clasts at 247.05 * Pyrite
■ Lithic
◇ Carb

5 cm

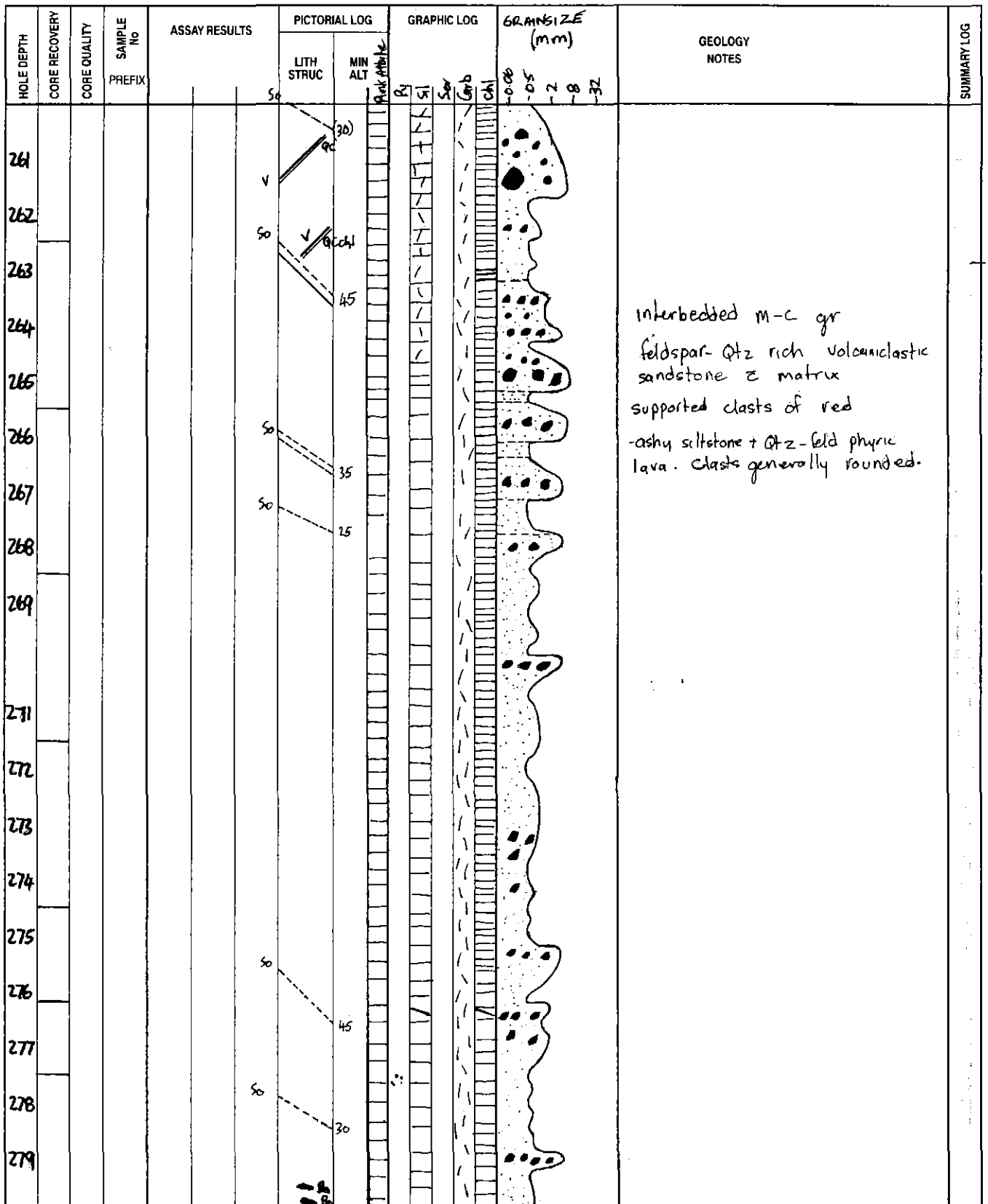
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

SHEET 14 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



8370552

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

SHEET 15 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
⌐ Cleavage
—▲— Foliation
~~~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

837053

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT, Pink Albite | GRAPHIC LOG: Py, Sil, Ser, Carb, Chl | GRAINSIZE (mm): 0.06, 0.25, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

Qal

V
So
C

hm

massive non-banded carbonate

287.7– 301.3

287.7–290.7 Pink-white carbonate

290.7–292.7 interbedded strongly hematitic andesite/dacitic volcaniclastic sandstone and carbonate.

295.6 3cm wide pink band ± possible trilobite fragments (alternatively slumping)

Elte

Ecarb

REMARKS

5 cm
~~~

RGC EXPLORATION PTY LTD

DRILL HOLE No T4N006

SHEET 16 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Legend: Bedding; Cleavage; Foliation; Fault, Shear; Breccia; Broken core; Disseminated; Massive; Pervasive; Narrow vein; * Visible gold

Columns: HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No (PREFIX T37_) | ASSAY RESULTS (ppm) Cu, Pb, Zn | PICTORIAL LOG (LITH STRUC, MIN ALT, Pink Albite) | GRAPHIC LOG (Py, Si, Ser, Carb, Chl) | GRAINSIZE (mm) 0.06, 0.5, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

(300)

8370054

Sample No (T37_)	Cu	Pb	Zn
221	49	650	729
222	63	374	286
223	108	707	1068
224	196	3852	691
225	13	97	26
226	99	<5	66
227	120	14	148
228	23	29	167
229	309	92	139
231	640	646	689

Pictorial log annotations: C; V Q Carb; S; Pb, Zn, As; So; S1

Geology Notes

(300.5-301.3) 118 Carb + and sst. — Ecarb

(301.3-304.7) cleaved chl feldspar rich andesitic volcaniclastic sandstone — Eav

← Banded Carbonate (approx. 306 m)

(306.6-309.1) interbedded hm-chl andesitic volcaniclastic sandstone and carbonates — Ecarb

← Banded Carbonate (approx. 309 m)

banded grey carbonate

Banded grey carbonate

(311.55-314.2) black-grey thinly bedded siltstone, pyrite common (parallel to So). — EEsst.

314.2-314.7 Zone of intense Qtz-carb veining. Visible Galena, Sphal, pyr, arsenopy, ccp – blocks of Ets + Eav?

← 315.2 chl lined fault contact

f-M gr feldspathic volcaniclastic sst. Red jasper at 319.5, 320.0, 320.4 — Ets / Eav

(310) (320)

REMARKS T37221-3, 29+31 2 ppm Ag Note: T37228-32 + T37234 > 2000 ppm Ba

T37224 11 ppm Ag

T37229 0.022 g/T Au : T37231 0.069 g/T Au

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No T4N006

SHEET 17 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Legend: Bedding; Cleavage; Foliation; Fault, Shear; Breccia; Broken core; Disseminated; Massive; Pervasive; Narrow vein; * Visible gold

(320)

HOLE DEPTH	SAMPLE No (PREFIX T37)	Cu (ppm)	Pb (ppm)	Zn (ppm)
320–321	232	158	1956	463
321–322	233	21	63	193 c
322–322.7	234	26	<5	264

Columns: HOLE DEPTH, CORE RECOVERY, CORE QUALITY, SAMPLE No, ASSAY RESULTS ppm, PICTORIAL LOG (LITH STRUC, MIN ALT, Pink Albite), GRAPHIC LOG (Py, Si, Ser, Carb, Chl), GRAINSIZE (mm) (0.06, 0.5, 2, 8, 32), GEOLOGY NOTES, SUMMARY LOG

GEOLOGY NOTES:

322.85 8cm pink QF lava clast c 5% disseminated pyrite

(325.10 – 338.7)
intensely chl-hm altered feldspar phyric andesitic volcaniclastic

Possible feld-ferromag phyric andesite lava.

Graphic log annotations: HEMATITE ALTERATION COMMON; ABUNDANT CARBONATE VEINS + MICROVEINS; INTENSE CHL-HM ALTERATION IN GROUNDMASS

SUMMARY LOG: Ecs; Eav; Ecarb; Eav; Ecarb; Eav; Ea?; Eav; Ecarb; Eav; Ecarb

(330)

(340)

REMARKS

T37232 0.322 and 0.283 g/T Au

5 cm

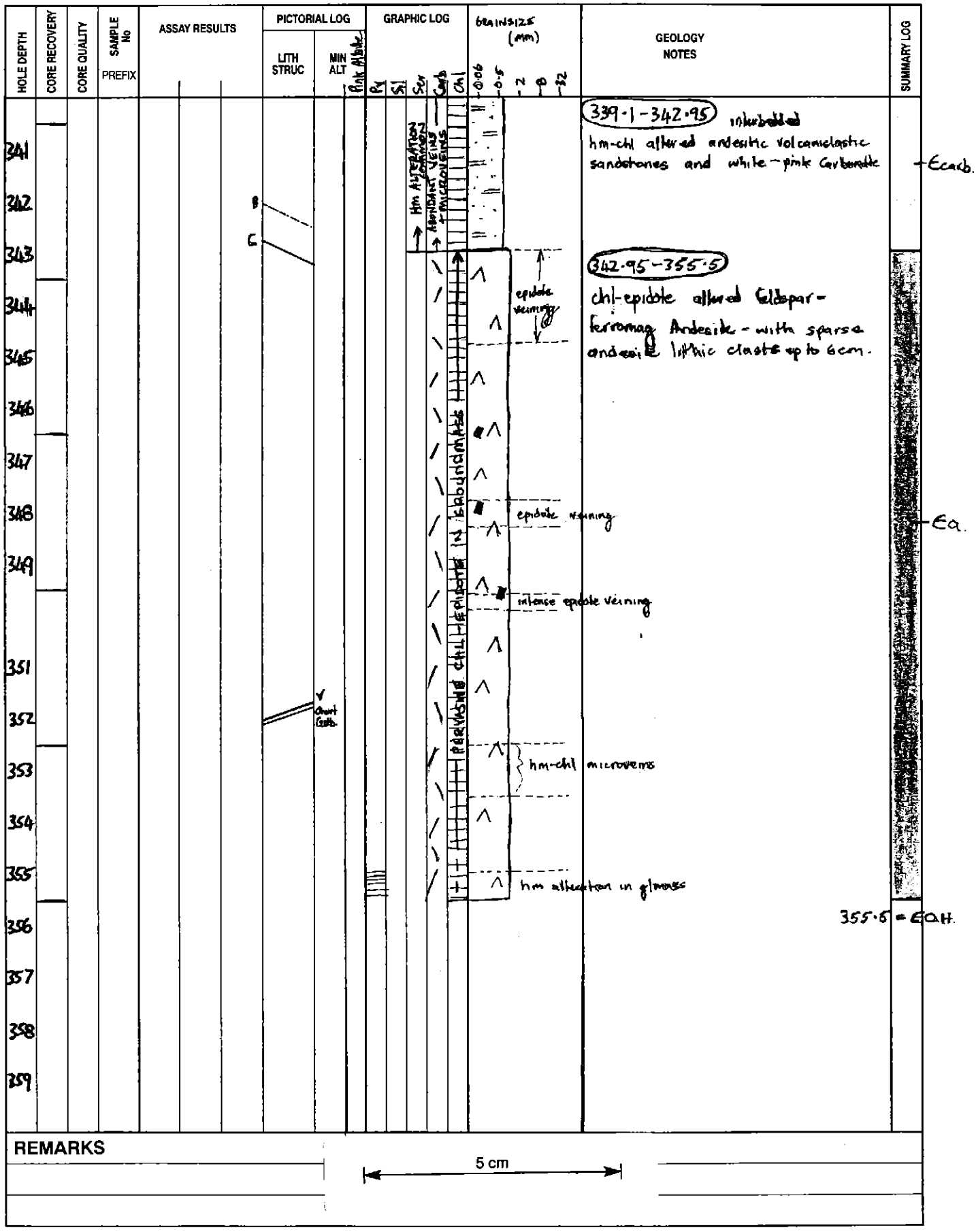
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN006

SHEET 18 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



8370856

APPENDIX 4

Drill Log of TYN007

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO.: TYN 007
STATE : TAS

PROJECT	BASIN LAKE
DESIGNED BY	MJV
LOGGED BY	MJV
COMMENCED	6 - 4 - 1994
COMPLETED	10 - 5 - 1994

PURPOSE

LOG SUMMARY

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5 356652.1
EASTING	381 351.1
R.L.	534.1 m
GRID	
LENGTH	349.5 m

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HQ	0 - 23.7
NQ	23.7 - 349.5

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

SURVEY DATA (Note: Bearing type must be same as Project Grid Type) (Bearings = AMG)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0m	248°25'	67.9	0	15	15	13.90	13.90	5.64	5.64
30m	247	67	15	45	30	27.62	41.52	11.72	17.36
60m	247	66	45	75	30	27.41	68.93	12.20	29.56
90	246	64.5	75	105	30	27.08	96.01	12.92	42.48
120	245	62.5	105	135	30	26.61	122.62	13.85	56.33
150	245	60.5	135	165	30	26.11	148.73	14.77	71.10
180	246.5	58.5	165	195	30	25.58	174.31	15.67	86.77
210	251	56.8	195	225	30	25.10	199.41	16.43	103.20
240	250	54	225	255	30	24.27	223.68	17.63	120.83
270	247	52.5	255	285	30	23.80	247.48	18.26	139.09
300	254	51°	285	315	30	23.31	270.79	18.88	157.97
330	249	49	315	339.75	24.75	18.68	289.47	16.24	174.21
349.5	248	47.8	339.75	349.5	9.75	7.22	296.69	6.55	180.76
349.5	(= EOH)								

RGC EXPLORATION PTY. LIMITED

PROJECT: BASIN LAKE

DRILL CORE RECOVERY & RQD

HOLE NUMBER: TYN 207 Page: 1 of 2

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
0	2.7	2.7	0.53	0.27		
2.7	3.2	0.5	0.30	0.98		
3.2	4.7	1.5	1.19	1.01		
4.7	6.2	1.5	1.43	1.09		
6.2	7.8	1.6	1.55	1.38		
7.8	9.2	1.4	1.38	0.86		
9.2	10.8	1.6	1.52	1.33		
10.8	12.2	1.4	1.39	1.39	100%	
12.2	13.2	1.0	1.52	1.37		
13.8	15.2	1.4	1.38	1.28		
15.2	16.8	1.6	1.59	1.53	100%	
16.8	18.2	1.4	1.39	1.17		
18.2	19.8	1.6	1.46	1.21		
19.8	21.2	1.4	1.4	0.7		
21.2	22.8	1.6	1.6	1.57		
22.8	23.7	0.5	0.75	0.75	100%	NO CORE
23.7	25.5	1.8	1.92	1.68		
25.5	28.5	3.0	2.95	2.69		
28.5	31.5	3.0	2.89	2.57		
31.5	34.5	3.0	2.97	2.32		
34.5	37.5	3.0	2.85	2.10		
37.5	39.8	2.3	2.4	1.84		
39.8	42.8	3.0	3.0	2.68		
42.8	45.9	3.1	3.1	2.62		
45.9	49.0	3.1	3.1	.76		
49.0	52.1	3.1	3.1	2.50		
52.1	55.2	3.1	3.1	.52		
55.2	58.2	3.0		2.88		
58.2	61.5	3.3	3.1	2.97		
61.5	64.5	3.0	3.0	2.99		
64.5	67.5	3.0	3.04	2.99	100%	
67.5	70.5	3.0	2.96	2.38		
70.5	72.9	2.4	2.09	1.53		
72.9	75.8	2.1	2.02	2.9		
75.9	77.9	2.1	2.09	1.98		
77.9	78.4	0.5	0.38	0.38	100%	

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
78.4	79.5	1.1	1.19	1.08		
79.5	82.5	3.0	2.96	2.38		
82.5	84.5	2.0	1.85	0.85		
84.5	85.5	1.0	1.0	0.69		
85.5	88.0	2.5	2.5	1.6		
88.0	91.1	3.1	3.1	2.38		
91.1	94.2	3.1	3.1	2.17		
94.2	97.3	3.1	3.03	2.68		
97.3	100.4	3.1	2.99	2.51		
100.4	103.4	3.0	3.0	2.38		
103.4	106.5	3.1	3.1	2.25		
106.5	109.5	3.0	2.94	2.38		
109.5	112.5	3.0	2.99	1.72		
112.5	114.0	1.5	1.5	0.31		
114.0	115.5	1.5	1.5	0.79		
115.5	118.5	3.0	2.99	1.0		
118.5	119.6	1.1	1.1	0		
119.6	121.5	1.9	1.89	1.31		
121.5	124.1	2.6	2.56	2.09		
124.1	126.2	2.1	2.1	0.49		
126.2	128.3	2.1	1.84	0.23		
128.3	129.7	1.4	1.4	0.27		
129.7	131.3	1.6	1.6	0.35		
131.3	133.5	2.2	2.17	0.87		
133.5	134.8	1.3	1.0	0.58		
134.8	135.9	1.1	1.1	0.11		
135.9	137.3	1.4	1.4	0.66		
137.3	139.7	2.4	2.4	1.37		
139.7	142.5	2.8	1.8	1.29		
142.5	144.8	2.3	2.3	1.53		
144.8	147.9	3.1	3.1	1.97		
147.9	149.8	1.9	0.98	0.53		
149.8	152.8	3.0	3.0	2.52		
152.8	154.7	1.9	1.95	1.59		
154.7	157.3	2.6	2.6	1.27		
157.3	160.1	2.8	2.9	2.12		

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
160.1	163.2	3.1	3.1	2.32		
163.2	166.3	3.1	3.1	2.60		
169.0	172.3	2.9	2.9	2.7		
172.3	175.4	3.1	3.1	3.04		
175.4	178.5	3.1	3.1	3.06		
178.5	181.5	3.0	3.0	2.82		
181.5	184.5	3.0	2.95	2.81		
184.5	187.5	3.0	2.94	2.24		
187.5	190.5	3.0	3.0	2.73		
190.5	193.5	3.0	2.99	2.93		
193.5	196.5	3.0	2.93	2.73	100%	
196.5	199.5	3.0	2.98	2.9		
199.5	202.5	3.0	2.93	2.75		
202.5	205.5	3.0	2.96	2.55		
205.5	208.5	3.0	3.0	2.15		
208.5	211.5	3.0	2.94	2.73		
211.5	214.0	3.0	2.55	1.59		
214.0	217.1	3.1	3.09	2.55		
217.1	220.2	3.1	3.05	2.93		
220.2	223.3	3.1	3.02	2.92		
223.3	226.4	3.1	3.0	2.83		
226.4	229.5	3.1	3.1	2.36		
229.5	230.8	1.3	1.3	1.07		
230.8	232.5	1.7	1.7	1.5		
232.5	235.5	3.0	2.95	2.89		
235.5	236.5	1.0	1.0	0.31		
236.5	239.6	3.1	3.05	2.38		
239.6	241.5	1.9	1.98	1.43		
241.5	244.5	3.0	2.90	2.78		
244.5	247.5	3.0	3.0	2.67		
247.5	250.5	3.0	3.0	2.92		
250.5	253.5	3.0	3.0	2.75		
253.5	256.5	3.0	2.94	2.79		
256.5	259.5	3.0	3.00	3.0		
259.5	262.5	3.0	3.0	2.82		
262.5	265.5	3.0	3.0	2.97		

RGC EXPLORATION PTY. LIMITED

PROJECT: BASIN LAKE

DRILL CORE RECOVERY & RQD

HOLE NUMBER: TYN007 Page: 2 of 2

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY ACTUAL REC	YES/NO RQD	%	COMMENTS
265·5	268·5	3·0	3·0	2·66		
268·5	271·5	3·0	3·0	2·69		
271·5	274·5	3·0	3·0	3·0		
274·5	277·5	3·0	3·0	2·80		
277·5	280·5	3·0	2·96	2·91		
280·5	283·5	3·0	3·0	2·84		
283·5	286·5	3·0	3·06	2·90		
286·5	289·5	3·0	2·97	2·81		
289·5	292·5	3·0	3·00	2·59		
292·5	295·5	3·0	2·94	2·79		
295·5	298·5	3·0	3·00	2·88		
298·5	301·5	3·0	3·00	2·60		
301·5	304·5	3·0	2·96	2·61		
304·5	307·5	3·0	2·95	2·95		
307·5	310·5	3·0	3·00	2·24		
310·5	313·5	3·0	3·0	2·80		
313·5	315·3	1·8	1·75	1·66		
315·3	316·5	1·2	1·16	1·09		
316·5	319·5	3·0	3·0	2·76		
319·5	322·5	3·0	2·94	2·60		
322·5	325·5	3·0	3·0	2·45		
325·5	328·5	3·0	2·90	1·53		
328·5	331·5	3·0	3·00	2·78		
331·5	334·5	3·0	2·97	2·87		
334·5	337·5	3·0	3·0	2·98		
337·5	340·5	3·0	3·0	2·88		
340·5	343·5	3·0	2·88	2·81		
343·5	346·5	3·0	3·00	2·53		
346·5	349·5	3·0	3·00	2·80		
	E·O·H					

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY ACTUAL REC	YES/NO RQD	%	COMMENTS

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY ACTUAL REC	YES/NO RQD	%	COMMENTS

OD 33.8

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

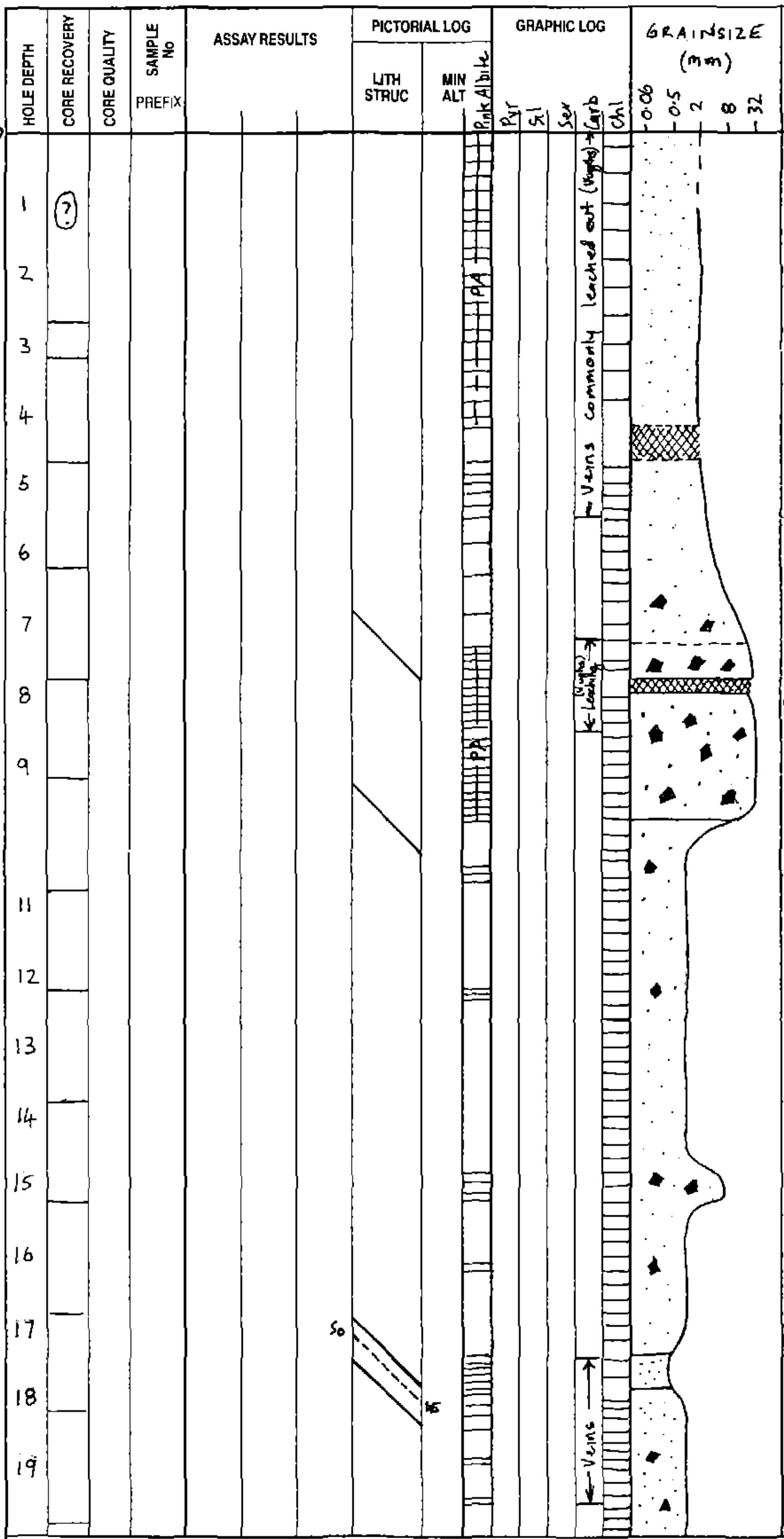
SHEET 1 OF 18

Legend			
Bedding		Disseminated	
Cleavage		Massive	
Foliation		Pervasive	
Fault, Shear		Narrow vein	
Breccia		*	Visible gold
Broken core			

PROJECT	:	BASIN LAKE
PROSPECT	:	TYNDALL
DATE	:	MAY 1994
LOGGED BY:		MICHAEL VICARY

837061

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG (LITH STRUC, MIN ALT) | GRAPHIC LOG | GRAINSIZE (mm) | GEOLOGY NOTES | SUMMARY LOG



0-5.5m generally weathered with some limonitic joints

0-7.3m m-c gr feld-qtz-rich volcaniclastic sst. Patchy chl-albite alteration

Broken zone with core loss

Broken Core

7.3-9.8m matrix supported peb-cob v/c cong. Abundant sub ang - sub rounded pink-grey chert clasts.

Note: Pink alteration haloes around clasts common.

9.8 - 64.4

m-f gr feldspar - quartz phyric volcaniclastic sandstone.

17.4-17.9 Bedded fine v/c sst.

Summary log: 0; 7.3; 9.8; Ettp; Ettpl; Ettcl

REMARKS

PA - Patchy alteration

◆ - lithic clasts

5 cm

SCALE 1:100

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN007

SHEET 2 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG LITH STRUC	PICTORIAL LOG MIN ALT Ank Albite	GRAPHIC LOG Py Sil Ser Carb Chl	GRAINSIZE (mm) 0.06 0.5 2 8 32	GEOLOGY NOTES	SUMMARY LOG
20										
21										
22					(BN)	40				
23	HQ									
24	NQ									
25										
26										
27					BN	45				
28										
29										
30										Ettrl
31										
32									charty ash clasts & devit nodules.	
33										
34									(15cm)	
35										
36										
37										
38										
39									Broken Core.	
40										

8370662

REMARKS BN - Banded alteration

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 3 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
⌴ Cleavage
—▲— Foliation
~~~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

83063

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT, Ankalbite | GRAPHIC LOG: Py, Sil, Ser, Carb, Chl | GRAINSIZE (mm): 0.06, 0.5, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

So
45

Ettel

GRAB 53 6

Ettelc

Noticeable decrease in Ank albite alteration into uniform chl altered m gr vlc sst ± some lithics and chl flamme wisps

REMARKS

5 cm
~~~

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 4 OF 18

PROJECT	: BASIN LAKE
PROSPECT	: TYNDALL
DATE	:
LOGGED BY:	

— Bedding
⌐ Cleavage
—▲— Foliation
~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8370641

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT | GRAPHIC LOG: Py Sil Ser Carb Chl | GRAINSIZE (mm): 0.06 0.5 2 8 32 | GEOLOGY NOTES | SUMMARY LOG

60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

45

20

69·4–70·0 1/8 grey siltstone and brown-red ashy siltstone. (lower contact ≥ 20° to CA)

70·0–73·4 QF phyric rhyolitic lava / ignimbrite. Chl Fiamme wisps up to 6cm.

Some jig saw fit brecciation

BROKEN CORE

73·4–74·6 Fine gr chl ashy vlc sst + siltstone.

74·6 – 83·3

Qtz-feldspar phyric rhyolitic lava/ Ignimbrite Chloritic fiamme wisps up to 6cm. Also QF lava clasts. Some jig saw fit brecciation.

No real evidence to suggest welding in groundmass.

SUMMARY LOG: Ettclc? | 69·4 | Ettsh | 70·0 | Ett | 73·4 | Ettsh | 74·6 | Ett

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN007

SHEET 5 OF 18

PROJECT	BASIN LAKE
PROSPECT	TYNDALL
DATE	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8237065

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX T373-	ASSAY RESULTS Cu	Pb	Zn	PICTORIAL LOG LITH STRUC	MIN ALT	GRAPHIC LOG Pink Albite	Pyr	Hm	Sil	Sulf	Carb	Chl	GRAIN SIZES (mm) 0.06 0.5 2 8 32	GEOLOGY NOTES	SUMMARY LOG
80																		
81																		Eti
82																		
83																	← Fault. Broken zone	83.3
84																	(83.3 – 86.0) volcaniclastic breccia. abundant pink QF lava? clasts in chloritic matrix. Upper contact not exposed due to possible faulting	Eti bx
85																		
86																	(86.0–88.8) amygdaloidal dacitic(?) lava	86.0
87																		Ettdl
88																		
89																	(88.8–94.15) chl-hm altered feldspar phyric ashy dacitic volcaniclastic sandstone/breccia. Carbonate horizons indicated.	88.8 Ettd
90																		Ecarb
91																		Ettd
92							BN							VEINS + MICROVEINS COMMON				
93			79	45	<5	110		40										Ecarb
94			80	26	<5	12		40										Ettd
95			81	4	6	6											(94.15–99.5) Pink-grey Carbonate. Commonly banded but may be stylolitic in places (Red jasper indicated ⬅)	94.15
96			82	16	<5	21												
97			83	8	<5	17											← detrital(?) magnetite band	Ecarb
98			84	30	5	44		45										
99			85	48	<5	68		45										99.5 Ettd
100																		

REMARKS

(H) = Hematite alteration

Py = Pyrite

BN = Banding/foliation in Carbonate

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN007

SHEET 6 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8237066

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX T373—	ASSAY RESULTS Cu	Pb	Zn	PICTORIAL LOG LITH STRUC	MIN ALT	Pink Albite	GRAPHIC LOG Pyr Hm	Sil	Gar	Carb	Chl	GRAINSIZE (mm) 0.06 0.5 2 8 32	GEOLOGY NOTES	SUMMARY LOG
100																	
			86	58	<5	76											€ttd
101							C										101·7
102								55								Pebble grade Carbonate rich Conglomerate.	
103																	
104							BN										€carb
								60									
105																	
106							BN										
								60									
107																108·7-108·2 intermixed massive Carbonate + dacite clasts	
108																	108·2
																108·2-110·9 hm-chl m-gr feld rich dacitic volcaniclastic sandstone / breccia.	
109																	€ttd
110																	
111																110·9-113·8 Fine gr light pink Qtz-feld phyric rhyolitic lava Some jigsaw fit brecciation near top. Concave fracture (>1-2 mm) common throughout unit - maybe modified perlitic texture.	110·9
112																	€T1
113																	
114																113·8-114·8 strongly sheared dacitic vlc sst	113·8
																	€ttd
115																	114·8
																	€carb
116																115·5-116·8 hm-chl dacitic volcaniclastic conglomerate Abundant angular dacite clasts.	115·5
																	116·8
117																116·8-119·6 m gr dacitic vlc sst strong Si	
							Si										€ttd
118								45									
119																	119·6
																	€ttd
120																f gr dacitic vlc sst / siltst.	

VEINS + MICROVEINS

V+MV

REMARKS

(Sample T37387 = Bm STD T3)

V + mv = Veins and microveins. C = Contact

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 7 OF 18

Legend			
Bedding		Disseminated	
Cleavage		Massive	
Foliation		Pervasive	
Fault, Shear		Narrow vein	
Breccia		Visible gold	*
Broken core			

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

837067

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG LITH STRUC	PICTORIAL LOG MIN ALT	GRAPHIC LOG (Pyr, Sil, Ser, Carb, Chl)	GRAINSIZE (mm) 0.06 0.5 2 8 32	GEOLOGY NOTES	SUMMARY LOG
120					C		Pink Albite		(119.6 – 121.2) F gr dacitic volcaniclastic Sandstone/Siltstone	ЄTTd
121					BN 45				(121.2 – ≈126.2) massive carbonate	121.2
122					45					
123					BN					Єcarb
124					45					
125										
126									broken core – Mainly Carbonate clasts ← Fault (126.2 – 127.7) f-Mgr Dacitic v/c sst.	? FAULT 126
127									← Fault hm-dacitic v/c cong.	
128									(128.2 – 139.2) strongly cleaved ser-chl dacitic f-mgr v/c sst.	
129							Py	Fault.		
130										
131										
132										ЄTTd
133										
134									Broken Zone	
135										
136										
137										
138										
139										139.2
140										ЄTTdc

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 8 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Legend: Bedding; Cleavage; Foliation; Fault, Shear; Breccia; Broken core; Disseminated; Massive; Pervasive; Narrow vein; * Visible gold

HOLE DEPTH	SAMPLE No (PREFIX T373-)	Cu	Pb	Zn	PICTORIAL LOG	GEOLOGY NOTES	SUMMARY LOG
140–150.3					S1 40; S1 45	(139.2 – 150.3) Matrix supported dacitic volcaniclastic conglomerate -clasts subangular-subrounded up to 20cm. Predominantly chloritic feldspar phyric dacite-andesite lava clasts. matrix generally sericitic	ETTdc
150.3–157.9					S0 45	(150.3 – 157.9) strongly cleaved ser-chl-(Hm) altered dacitic volcaniclastic sandstone (f-m gr) and siltstones.	150.3; ETTd
158–159	88	26	23	187			157.9
159–160	89	33	7	191			

REMARKS ▯ carb clasts   T37388 – 90   Bi (134, 248 + 173 ppm)

5 cm

83706 8

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 9 OF 18

PROJECT	BASIN LAKE
PROSPECT	TYNDALL
DATE	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

83706 9

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX T373	ASSAY RESULTS Cu	Pb	Zn	PICTORIAL LOG LITH STRUC	MIN ALT	Pink Albite	GRAPHIC LOG Pyr	Sil	Ser	Carb	Chl	GRAINSIZE (mm) 0.06 0.5 2 8 32	GEOLOGY NOTES	SUMMARY LOG
160																	
161			90	13	17	172	Si 45									(157.9–168.0) interbedded f–m gr dacitic volcaniclastic sandstone + siltstone and matrix supported carbonate clast rich volcaniclastic conglomerate. Other lithics include QF ignimbrite, QF lava, cherty siltstone and pyrite clasts[3].	ETTd
162																	
163																	
164																	
165							Si 45										
166																	
167																	
168																(168.0–172.1) Qtz rich volcaniclastic sandstone. Sparse lithic clasts.	grad.
169																	
170																	ETTd
171																	
172																(172.1–174.2) Quartz-feldspar phyric rhyolitic lava breccia. Abundant curviplanar–Jigsaw Fit clasts in Carbonate matrix.	172.1
173																	ETL
174																	174.2
175																	
176																	ETTds
177																	
178																	
179																	ETL/E
180																	ETTds
																	ETL/ET

REMARKS

□ Carbonate clasts

■ Lithic clasts

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN007

SHEET 10 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT | GRAPHIC LOG: Pink Albite, Pyr, Sil, Ser, Carb, Chl | GRAINSIZE (mm): 0.06, 0.5, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200

(179.9-180.7) Qtz-feldspar phyric ignimbrite breccia.

(187.5-189.5) Pink Qtz-feldspar phyric Lava + Lava breccia

← Lava blocks in set matrix

Numerous quartz veins up to 10 cm

SUMMARY LOG: ETi, ETTds, 181, ETTe, 187.5, ETL, 189.5, ETTe, 193.3, ETL, 193.9, ETTe, 198.7, ETL, 199.4, ETTe

REMARKS

5 cm

8270270

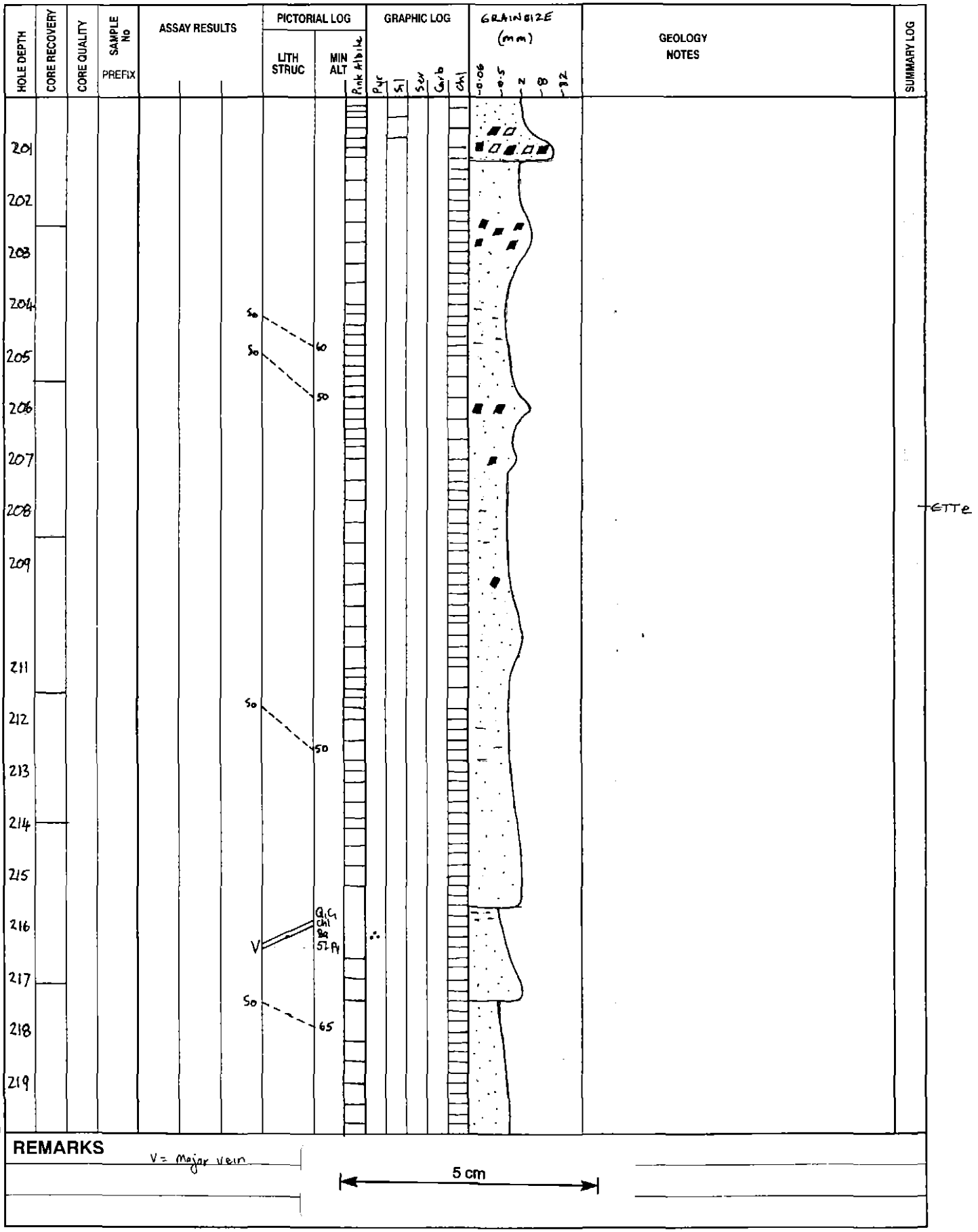
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 11 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



REMARKS

V = major vein

5 cm

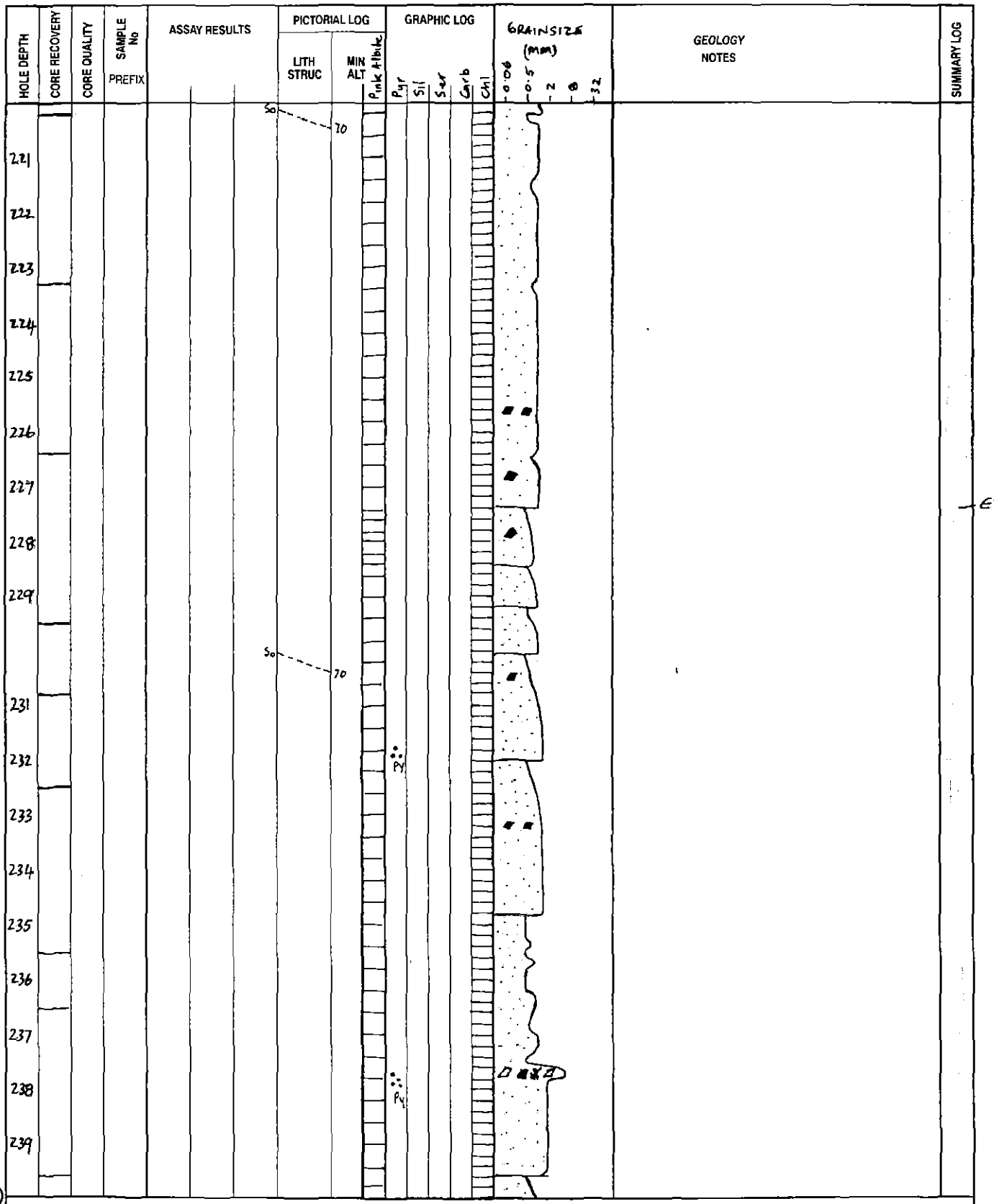
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 12 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
⌐ Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 13 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

8370073

HOLE DEPTH | CORE RECOVERY | CORE QUALITY | SAMPLE No PREFIX | ASSAY RESULTS | PICTORIAL LOG: LITH STRUC, MIN ALT, Pink Hbtic | GRAPHIC LOG: Qtz, Sil, Ser, Carb, Chl | GRAINSIZE (mm): 0.06, 0.5, 2, 8, 32 | GEOLOGY NOTES | SUMMARY LOG

240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260

BN 80
BN 75
BN 60
BN 65
BN 45

MV

243.2 - 244.7 IIB Banded Carbonate and feldspar rich clastic volcaniclastic set

245.2 - 246.85 Mgr feldspar rich volcaniclastic set

as 243.2 - 244.7

as 243.2 - 244.7

Pink hematitic carbonate common.

ETTe
Ecarb
ETTe
Ecarb
ETTe
246.85
Ecarb
259.7
ETTe

REMARKS

MV - MICROVEINS COMMON.

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 14 OF 18

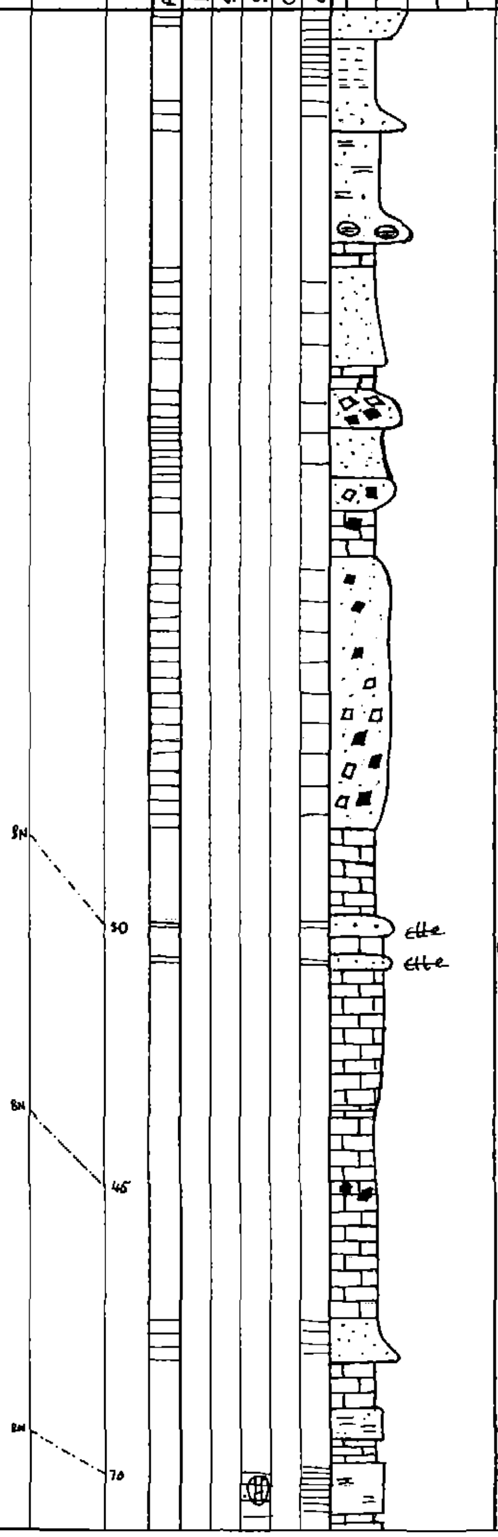
PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Legend:

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

837074

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG: LITH STRUC / MIN ALT (Pink Albite)	GRAPHIC LOG: Pyr, Sil, Ser, Carb, Chl	GRAINSIZE (mm) 0.06, 0.5, 2, 8, 32	GEOLOGY NOTES	SUMMARY LOG



(260)
261
262
263
264
265
266
267
268
269
(270)
271
272
273
274
275
276
277
278
279
(280)

Geology notes:

(267.2 – 270.8)
m-c gr volcaniclastic sandstone with carbonate clast rich base. (Clasts up to pebble grade)

↑ Pink hematitic carbonate ↓

(272.2 – 274.5)
bedded carbonate with abundant f-m sand gr hm grains

Summary log: Ette; 261.6; Ecarb; 263.4; Ette; 264.7; Ecarb; 265; Ette; 266.6; Ecarb; 267.2; Ette?; 270.8; Ecarb; 277.2; Ette; 277.8; Ecarb; 277.9; Eav; Ecarb; Eav

REMARKS (H) = hematite

5 cm

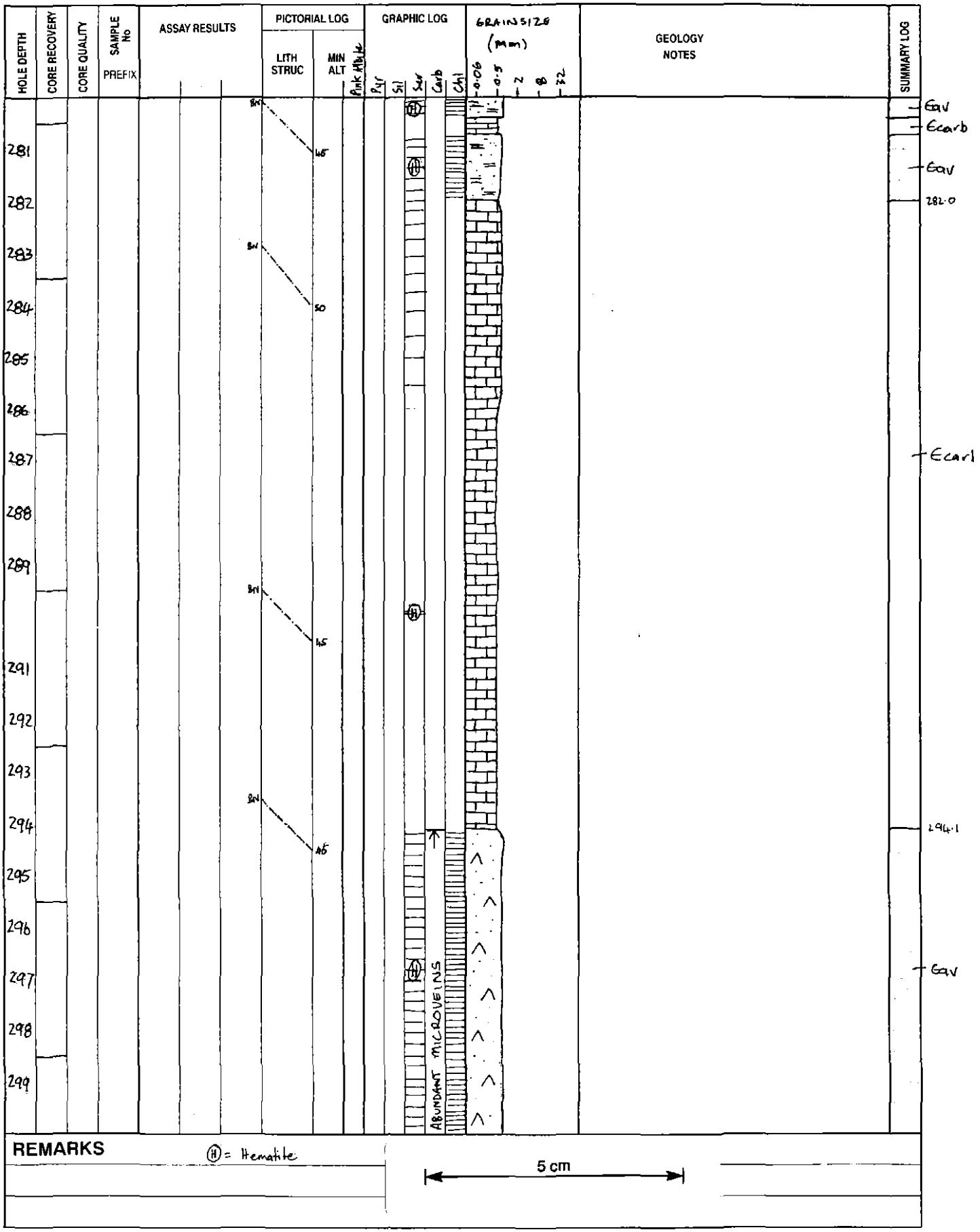
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 15 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
└ Cleavage
▲ Foliation
~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



REMARKS

(H) = Hematite

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN007

SHEET 16 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX T3739	ASSAY RESULTS Cu	Pb	Zn	PICTORIAL LOG LITH STRUC	MIN ALT	Pink Albite	GRAPHIC LOG Qtz	Sil	Ser	Carb	Chl	GRAINSIZE (mm) 0.06 0.5 2 8 32	GEOLOGY NOTES	SUMMARY LOG
301																	Eav
302																	
303			91	<4	<5	92											
304			92	<4	<5	73											304
305			93	55	19	79											Ecarb
306			94	140	153	165										305.3 - 317.3 chl-hm altered feldspar phyric Andesite breccia. Abundant angular clasts upto 5-6cm in carbonate rich matrix. Abundant recrystallized Carbonate veining & some secondary brecciation.	305.3
307			95	<4	<5	309											
308																	
309																	Ecabx
310																	
311																	
312																	
313																	
314																	
315																	
316																	
317																	317.3
318																318.0 - 319.8 Andesite lava - still breeciated but more coherent than 305.3 - 317.3. slightly reworked top.	Ecarb
319																	318
320																	Ea
																	319.8
																	Ecarb

ABUNDANT MICROVEINS

REMARKS

(H) = Hematite

T37391 1055 ppm Ba

T37392 1204 ppm Ba

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 17 OF 18

PROJECT	BASIN LAKE
PROSPECT	TYNDALL
DATE	
LOGGED BY:	

— Bedding
└ Cleavage
▲ Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH	CORE RECOVERY	CORE QUALITY	SAMPLE No PREFIX	ASSAY RESULTS	PICTORIAL LOG: LITH STRUC	PICTORIAL LOG: MIN ALT	PICTORIAL LOG: Pink Albite	GRAPHIC LOG: Py	Sil	Ser	Carb	Chl	GRAINSIZE (mm)	GEOLOGY NOTES	SUMMARY LOG
320														320.2 - 322.0 Andesite lava	Ecark 320.2
321															Eq
322															322.0 Eav
323					Bx	55									323.3 Ecarb
324					Bx	60									323.95 Eav
325					Bx	45									Ecarb Eav
326															Ecarb
327						25									Eav
328					Bx									← Fault ← 3cm puggy zone	327.9
329						30									Ecarb
330															329.6
331															
332															
333															Eq
334															
335															
336															
337															
338															
339					Bx	30									329.6 Eav
340															

ABUNDANT CARBONATE MICRO VEINS + VEINS

REMARKS

(H) = Hematite

5 cm

8307?

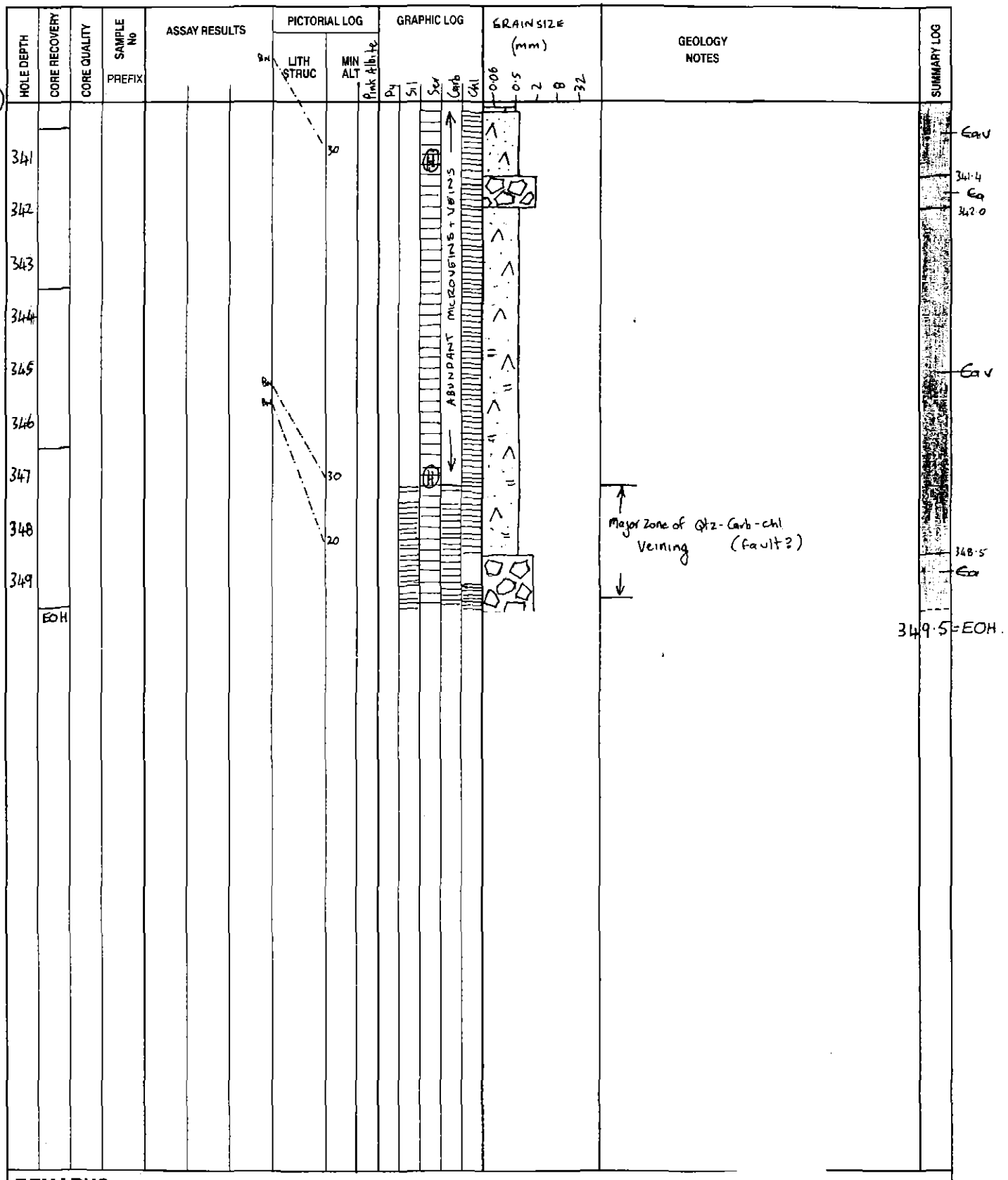
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 007

SHEET 18 OF 18

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY:	

— Bedding
⌊ Cleavage
▲ Foliation
~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



83707S

REMARKS

(H) = Hematite

5 cm

APPENDIX 5

Drill Log of TYN008

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	TYN008
STATE :	TAS

DLV. PRESS

PROJECT	BASIN LAKE
DESIGNED BY	M VICARY
LOGGED BY	
COMMENCED	27/6/1994
COMPLETED	20/7/1994

PURPOSE

To test for possible massive sulphide mineralization at an inferred exhalitive horizon at the contact between the Tyndall Group and the Anthony Road Andesites.

LOG SUMMARY 0-21.3 Opg : 21.3-205.8m Ea and Eav

GENERAL COMMENTS Hole failed to intersect Tyndall Group sediments and intersected a sequence of interbedded andesite lavas and andesitic volcaniclastic sediments, presumably stratigraphically lower than target horizon.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5356136.12 *
EASTING	381269.7 *
R.L.	517.741 *
GRID	
LENGTH	205.8m

* Hole surveyed by GPS.

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HQ	0m
NQ	53.4m
HQ	97.8m
NQ	155.3m

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Ground conditions were generally poor. The rock showed intense limonite weathering and fracturing to at least 150.5 m. Below this level the rock became much fresher and drilling conditions improved. The hole has been cased with PVC piping.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total
0m	(270)	(68)							
55	268	68							
85	267	68.5							
160	269	68							
190	269	67.8							

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D. Sin. Dip	VERTICAL R.L.	HORIZONTAL D. Cos. Dip	HORIZONTAL Prog. Total

RGC EXPLORATION PTY. LIMITED

PROJECT: Basin Lake

DRILL CORE RECOVERY & RQD

HOLE NUMBER: TYN 008 Page: 1

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
0	3.1	3.1	2.12	1.52		
3.10	6.80	3.7	1.93	0.20		
6.80	9.4	2.6	1.31	0.77		
9.4	12.4	3.0	1.07	1.2		
12.4	15.4	3.0	1.55	0.0		
15.4	18.4	3.0	2.12	0.0		
18.4	21.4	3.0	1.88	0.0		
21.4	24.4	3.0	2.30	0.0		
24.4	26.6	2.2	1.59	0.0		
26.6	29.8	3.2	1.93	0.0		
29.8	32.2	2.4				
32.2	36.4	4.2				
36.4	39.4	3.0				
39.4	42.4	3.0				
42.4	45.4	3.0				
45.4	48.4	3.0				
48.4	51.4	3.0				
51.4	53.4	2.0				
53.4	55.8	2.4				
55.8	58.8	3.0	2.66	2.32		
58.8	61.8	3.0	2.91	2.56		
61.8	64.8	3.0	2.89	2.22		
64.8	67.8	3.0	2.73	2.33		
67.8	70.8	3.0	2.85	2.09		
70.8	73.8	3.0	2.68	2.02		
73.8	76.8	3.0	2.97	2.16		
76.8	79.8	3.0	2.18	1.28		
79.8	82.8	3.0	2.82	1.17		
82.8	85.8	3.0	1.65	0.16		
85.8	88.8	3.0	2.68	1.53		
88.8	91.8	3.0	1.87	0.40		
91.8	94.8	3.0	2.21	0.82		
94.8	97.8	3.0	1.85	0.61		
97.8						Trip 19 - Core in core barrel

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	
105.4	108.4	3.0	2.07	1.19		
108.4	111.4	3.0	1.10	0.0		
111.4	114.4	3.0	1.64	0.24		
114.4	117.4	3.0	1.49	0.22		
117.4	120.4	3.0	2.50	0.91		
120.4	122.7	2.3				
122.7	126.8	2.1				
124.8	126.2	3.0				
126.2	129.4	3.2				
129.4	132.4	3.0				
132.4	135.4	3.0				
135.4	138.4	3.0				
138.4	141.4	3.0				
141.4	144.4	3.0				
144.4	147.4	3.0				
147.4	150.4	3.0				
150.4	153.7	3.3				
153.7	155.3	2.4				
155.3	157.8	2.5				
157.8	160.8	3.0				
160.8	163.8	3.0				
163.8	166.8	3.0				
166.8	169.8	3.0				
169.8	172.8	3.0				
172.8	175.8	3.0				
175.8	178.8	3.0				
178.8	181.8					
181.8	184.8					
184.8	187.8					
187.8	190.8					
190.8	193.8					
193.8	196.8					
196.8	199.8					
199.8	202.8					
202.8	205.8	(EOH)				

INTERVAL		RECOVERY		YES/NO		COMMENTS
From	To	m	ACTUAL REC	RQD	%	

837082

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 008

SHEET 1 OF 11

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

PROJECT	:	BASIN LAKE
PROSPECT	:	TYNDALL
DATE	:	AUGUST 1994
LOGGED BY	:	MICHAEL VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CARB.	CHL.	HEM.	EPID./Lum.	GEOLOGY NOTES	SUMMARY: FORMATION	ROCK	ALTERATION
0												0 – 15·4m Poorly consolidated Glacial Till. Predominantly bouldery deposit with light grey matrix of fine mud - sand. Clasts are mainly Owen derived pink sst and chert bearing granule - pebble conglomerates. Largest clasts up to about 1m.	Qpg	Till	
1				€Od											
2															
3															
4				€Od											
5															
6				€Od											
7															
8															
9				€Od											
10															
11				€Od											
12												12·40 – 15·40m abundant m gr sand (hole collapse) ± some rock fragments.			
13				€Od											
14												10% rock fragments = sericitic volcanic (€v)			
15				€v €v											
16												15·4 – 21·3 Limonitic mud ± clasts up to 15cm. Variety of clasts includes Owen derived clasts, chl fld-Qtz rich vfc sst (Comstock Tuff). The limonitic mud appears to be derived from a predominantly andesitic source.	Qpg	Till + clay	
17															
18															
19															
20															

REMARKS

Scale 1:1000

5 cm

837083

RGC EXPLORATION PTY LTD

DRILL HOLE No T4N008

SHEET 2 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	
DATE :	
LOGGED BY :	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH | SAMPLE No PREFIX | ASSAY RESULTS | STRUCT. | GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32) | ALTERATION: SIL. SER. PY. CARB. CHL. HM. EPID./LIM. | GEOLOGY NOTES | SUMMARY: FORMATION ROCK ALTERATION

20

21

← lower glacial contact gradational over about 30cm at about 21.3m.

21.3 – ≃ 26.2 m

Very weathered andesite derived clay. Pink feldspar phenos in lim-ser fine gr clay matrix floating (phyric) texture suggestive of Lava.

22 23 24 25 26

26.2 – 34.9 m

Lim-ser clay becoming more lithified after 29m. Texturally distinct to unit above, and has moderately developed Si. Grain supported feldspar frags in fine gr lim-ser-chl matrix – possibly andesitic derived volcaniclastic sandstone.

27 28 Si 60 29

30

31 32

CORE LOSS

33 34 Qtz

35

34.9 – 41.75m

Predominantly feldspar phyric andesitic Lava. Minor volcaniclastics. Maybe some ferromagnesium mineral phenocrysts present.

36 37 38 39

40

Qfg Till

Ea LAF

Eav VAM

Ea LAF

REMARKS

5 cm

837084

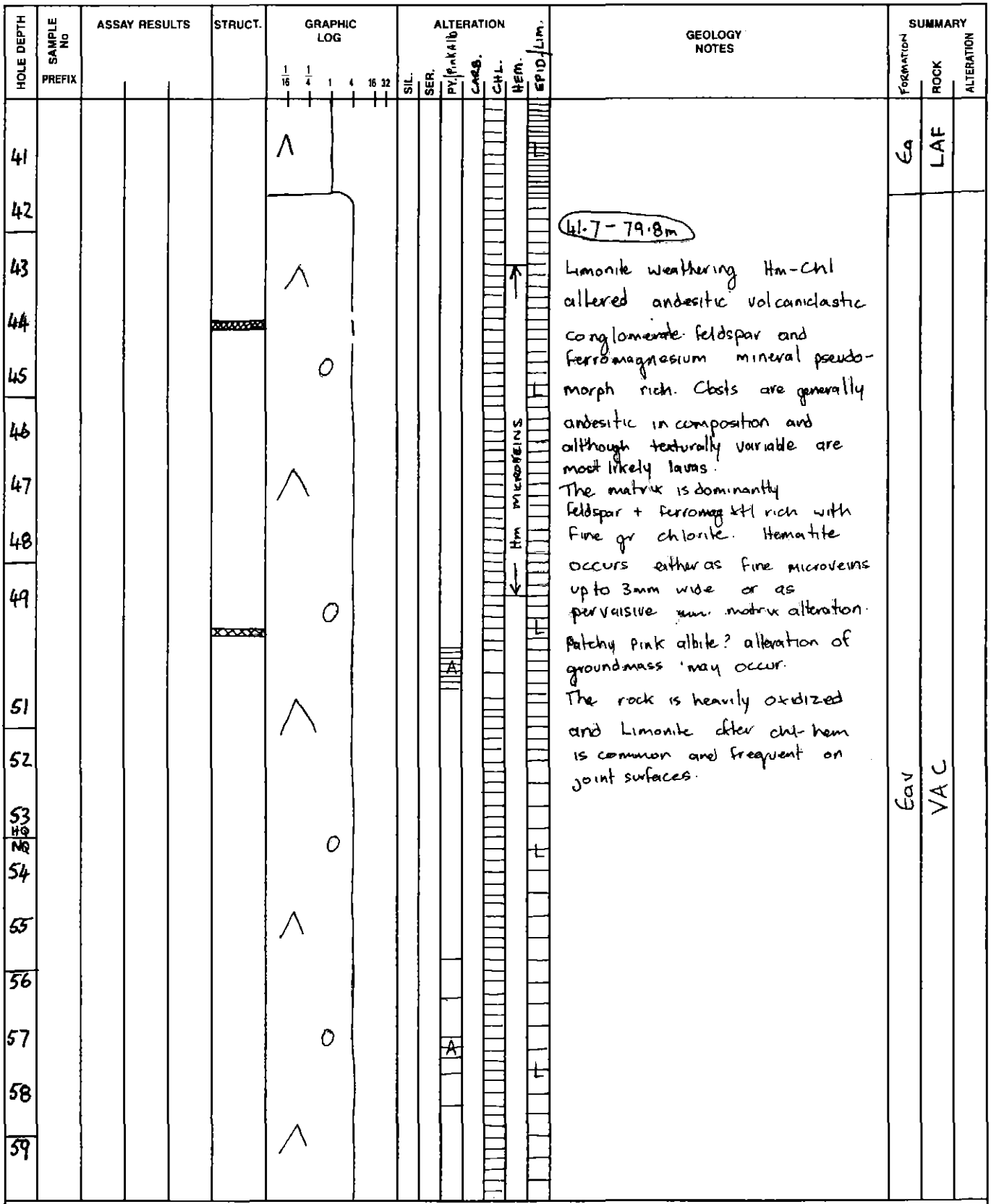
RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 3 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold



41.7 - 79.8m

Limonite weathering Hm-Chl altered andesitic volcaniclastic conglomerate. feldspar and ferromagnesium mineral pseudomorph rich. Clasts are generally andesitic in composition and although texturally variable are most likely lavas.
The matrix is dominantly feldspar + ferromag stl rich with fine gr chlorite. Hematite occurs either as fine microveins up to 3mm wide or as pervasive mm. matrix alteration. Patchy Pink albite? alteration of groundmass may occur.
The rock is heavily oxidized and Limonite after chl-hem is common and frequent on joint surfaces.

REMARKS

5 cm

837085

RGC EXPLORATION PTY LTD

DRILL HOLE No T4N008

SHEET 4 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH	SAMPLE No PREFIX T374-	ASSAY RESULTS Cu	Pb	Zn	STRUCT.	GRAPHIC LOG	ALTERATION SIL.	SER.	Mt. Ank Ab	CARB.	CHL.	Hem.	EPID.	GEOLOGY NOTES	SUMMARY FORMATION	ROCK	ALTERATION
60																	
61																	
62													L				
63																	
64							V		A								
65	01	179	19	120									L				
66	02	191	17	49													
67	03	284	19	59					A			MV					
68	04	332	15	49													
69	05	184	19	93									L				
70	06	238	21	92											Eav	VAC	
71	07	290	19	83													
72	08	107	14	42													
73	09	96	10	26					A			MV					
74	10	115	18	37								MV					
75													L				
76																	
77					50° 30°									minor hm-andesitic volcaniclastic F-M gr sandstones in interval 77-79.9 m.			
78																	
79																	
80																	

5 cm

REMARKS

Note: T37411 = 8m STD T3

Note: T 37402-T37407 and T 37410 > 0.010 g/T Au

T37410 = 0.385 g/T Au

827000

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 5 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH | SAMPLE No PREFIX | ASSAY RESULTS | STRUCT. | GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32) | ALTERATION: SIL., SER., PY., CARB., CHL., HEM., EPID./LUM.

GEOLOGY NOTES

79·80 - ≈940 m
Predominantly medium - coarse gr andesitic volcaniclastic sandstone

94·0 - 94·8 Broken zone (fault?)

94·8 - ≈96·0 undifferentiated andesitic volcaniclastic sediment.

≈96·0 - ≈99·7m Zone of highly broken core - possibly a fault zone. Bar 19 seems to be labelled incorrectly

SUMMARY: FORMATION | ROCK | ALTERATION

FORMATION	ROCK
Eav	VAM
FAULT	VA\
Eav	VA\
FAULT	VA\ ?

NQ
HQ

Bar 19 labelled incorrectly?

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 6 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH | SAMPLE No PREFIX | ASSAY RESULTS | STRUCT. | GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32) | ALTERATION: SIL., SER., PY., CARB., CHL., Hem., BP1D., Lim. | GEOLOGY NOTES | SUMMARY: FORMATION, ROCK, ALTERATION

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

99·7 – ≈ 107·0

Limonitic – andesitic volcaniclastic sst | conglomerate. Same clasts up to 6 cm. Hematite microveins common.

FORMATION: Eav

ROCK: VAC

Possible faulted contact

107·0 – 115·2

strongly broken = cleaved andesitic derived rock. Not sure if feld-flm phyric Lava or volcaniclastic.

Possibly a faulted contact at ≈107m, which corresponds to the limit of limonite development.

STRONGLY BROKEN ZONE

FORMATION: Eav?

ROCK: VOA/

115·2 – 126·2

similar to above lithology but less broken.

FORMATION: Eav?

ROCK: VOA/

S1 60

S1 45

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 7 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH | SAMPLE No PREFIX | ASSAY RESULTS | STRUCT. | GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32) | ALTERATION: SIL. SER. PY. CARB. CHL. HEM. EPID./LIM. | GEOLOGY NOTES | SUMMARY: FORMATION ROCK ALTERATION

120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140

30 54

RELATIVELY BROKEN CORE

S1 45

FAULT

(~)

126.2 - ≈127.0 Major hole collapse

≈127.0m - 166.0m change in lithology in highly broken core zone. Now into relatively unaltered Hem-chl-lim altered feldspar phyric andesite lava

Rock becomes progressively fresher down hole.

Eau ?
FAULT
Ea

VOA /
LAF

8237088

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 8 **OF** 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

Legend: Bedding; Cleavage; Foliation; Fault, Shear; Breccia; Broken core; Disseminated; Massive; Pervasive; Narrow vein; * Visible gold

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION (SIL. / SER. / PY. / CARB. / CHL. / HEM. / EPID. / LIM.)	GEOLOGY NOTES	SUMMARY FORMATION	ROCK	ALTERATION
140									
141					CARB.: leached.				
142					CARB.: Commonly				
143					CARB.: Veins; LIM.: L				
144					→		Ea		
145									
146			F		Veins + Microveins				
147			F 20 / 20		Vughy →				
148					Veins + Microveins →				
149					Vughy; LIM.: L	(148.1 – 150.5m) Zone of intense Limonitic jointing and vughy cavities. Possibly associated with fault zone. Broken Zones at 148.5 – 148.8m and 149.4 – 149.6 m.	Ea / FAULT		
150									
151						(150.5 – 166 m)			
152						Variably hm-chl altered feldspar phyric andesite lava.			
153						Perhaps slightly more hematitic than unit below 166m. If			
154						ferromag phenocrysts are present they have been obliterated by hm alteration.			
155	HQ/NQ								
156					Common.		Ea	LAF	
157									
158					Microveins				
159					Veins +				
160									

REMARKS

5 cm

837089

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 9 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

Legend: Bedding; Cleavage; Foliation; Fault, Shear; Breccia; Broken core; Disseminated; Massive; Pervasive; Narrow vein; * Visible gold

HOLE DEPTH (m)	SAMPLE No (PREFIX T374--)	Cu	Pb	Zn
164–165	12	13	24	51
165–166	13	115	28	54
170–171	14	61	26	26
171–172	15	<4	25	29
172–173	16	48	24	31
173–174	17	38	24	53

Hole depth: 160 – 180

GRAPHIC LOG: andesite symbols (Λ) throughout, contact at 166

ALTERATION (SIL. | SER. | PY. | CARB. | CHL. | HEM. | EPID.):
- CARB.: Pink Hm Carbonate Veins Common (164–173)
- CARB.: Veins and Microveins Common
- HEM.: Patchy
- EPID.: V (163); V (166)

GEOLOGY NOTES

(166 – 205.8m)
Variably Chl-Hm-(EPID) altered feldspar-ferromagnesium mineral pseudomorph phyric andesite lava. Ferromags harder to detect in more hematite altered patches.

The andesite is generally massive and uncleaved. Minor secondary brecciation is associated with carbonate veining in places.

SUMMARY

Interval	FORMATION	ROCK	ALTERATION
160–166	Ea	LAF	
166–180	Ea	LAFH	

REMARKS

5 cm

837090

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 10 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

— Bedding
⌐ Cleavage
— Foliation
~ Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

HOLE DEPTH	SAMPLE No PREFIX T376--	ASSAY RESULTS Cu	Pb	Zn	STRUCT.
185	18	<4	21	46	
186	19	<4	22	70	
193	20	<4	22	56	
198	21	<4	22	67	
199	22	<4	20	53	

GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)

ALTERATION: SIL. SER. PY. CARB. CHL. Hem. EPID.

SPECULAR HEMATITE VEINS COMMON IN THIS ZONE + MICROVEINS COMMON

GEOLOGY NOTES

181·2 - 199·8 m
Zone of Specular Hematite veins and microveins.
Specularite is associated with Quartz - chl - carbonate and epidote veining.

185·9 5cm Qz-Carb-Spec-Chl Vein
186·1 5cm Qz-chl-Epid-Spec Vein
186·5 4cm? Spec vein

194·0m Breccia forming Carbonate vein

198·6 6cm Qtz-chl-epid vein ± pink alb? selvage
199·05 - 199·25 Zone of Qtz-Carb -spec-Epid Veining

SUMMARY: FORMATION, ROCK, ALTERATION

Ga
LAFH

83705 1

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN008

SHEET 11 OF 11

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- * Visible gold

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CARB.	CHL.	HEM.	EPID.	GEOLOGY NOTES	SUMMARY: FORMATION	ROCK	ALTERATION
200															
201								VEINS + MICROVEINS COMMON →	PATCHY		V				
202															
203															
204															
205															
EOH = 205.80m															

REMARKS

5 cm

APPENDIX 6

Drill hole rock chip assays

Sample	depth from	depth to	ANALAB Au ppm GG309	ANALAB Au(r) ppm GG3	ANALAB Cu ppm GA140	ANALAB Pb ppm GA140	ANALAB Zn ppm GA140	ANALAB Ag ppm GA101	ANALAB As_a ppm HA10	ANALAB As2_a ppm GA1	ANALAB Mn_a ppm AAS	ANALAB Ba_a ppm GX40
37221	311.55	312.00	-0.008		49.000	650.000	729.000	2.000	39.000		1320.000	981.000
37222	312.00	313.00	-0.008		63.000	374.000	286.000	2.000	33.000		1300.000	854.000
37223	313.00	314.00	-0.008		108.000	707.000	1068.000	2.000	69.000		1750.000	868.000
37224	314.00	314.74	-0.008		196.000	3852.000	691.000	11.000	68.000		3690.000	331.000
37225	314.74	315.20	-0.008		13.000	97.000	26.000	-2.000	35.000		1720.000	68.000
37226	315.20	316.00	-0.008		99.000	-5.000	66.000	-2.000	36.000		2080.000	251.000
37227	316.00	317.00	-0.008		120.000	14.000	148.000	-2.000	90.000		1840.000	441.000
37228	317.00	318.00	-0.008		23.000	29.000	167.000	-2.000		138.000	2050.000	2273.000
37229	318.00	319.00	0.022		309.000	92.000	139.000	2.000	58.000		2980.000	3236.000
37230 (STD)			0.389			430.000	1018.000	6.000	20.000	-	1280.000	7129.000
37231	319.00	320.00	0.069		640.000	645.000	689.000	2.000	19.000		4950.000	3293.000
37232	320.00	321.00	0.322	0.283	158.000	1956.000	463.000	5.000	29.000		3740.000	4188.000
37233	321.00	321.91	-0.008		21.000	53.000	193.000	-2.000	24.000			840.000
37234	321.91	322.50	-0.008		26.000	-5.000	254.000	-2.000	14.000		1760.000	2089.000

Laboratory:	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB
Detection Limit:	0.000	0.000	0.000	0.000	0.000	2.000	1.000	100.00	5.000	10.000
Method:	GG309	GG309	GA140	GA140	GA140	GA101	HA101	GA101	AAS	GX401

Sample	depth from	depth to	ANALAB Au ppm GG309	ANALAB Cu ppm GA140	ANALAB Cu_2 ppm GA10	ANALAB Pb ppm GA140	ANALAB Zn ppm GA140	ANALAB Ag ppm GA101	ANALAB Mn_a ppm AAS	ANALAB As_a ppm HA10	ANALAB Ba_a ppm GX40
37379	93.00	94.00	0.014	45.000		-5.000	110.000	-2.000	1230.000	3.000	253.000
37380	94.00	95.00	0.013	26.000		-5.000	12.000	-2.000	1030.000	2.000	36.000
37381	95.00	96.00	0.008	4.000		6.000	6.000	-2.000	978.000	2.000	23.000
37382	96.00	97.00	0.020	16.000		-5.000	21.000	-2.000	1045.000	2.000	83.000
37383	97.00	98.00	-0.008	8.000		-5.000	17.000	-2.000	1880.000	3.000	45.000
37384	98.00	99.00	-0.008	30.000		5.000	44.000	-2.000	2260.000	3.000	170.000
37385	99.00	100.00	-0.008	48.000		-5.000	68.000	-2.000	2000.000	3.000	369.000
37386	100.00	101.00	0.009	58.000		-5.000	76.000	-2.000	1300.000	2.000	709.000
37387 (STD)			0.410		12900.000	10.000	50.000	4.000	323.000	1.000	1404.000
37388	158.00	159.00	-0.008	26.000		23.000	187.000	-2.000	2100.000	1.000	4134.000
37389	159.00	160.00	-0.008	33.000		7.000	191.000	-2.000	3170.000	3.000	2618.000
37390	160.00	161.00	0.009	13.000		17.000	172.000	-2.000	3550.000	1.000	1735.000
37391	302.00	303.00	0.010	-4.000		-5.000	92.000	-2.000	839.000	1.000	1055.000
37392	303.00	304.00	0.012	-4.000		-5.000	73.000	-2.000	847.000	4.000	1204.000
37393	304.00	305.00	0.008	55.000		19.000	79.000	-2.000	1540.000	1.000	492.000
37394	305.00	306.00	-0.008	140.000		153.000	165.000	-2.000	1570.000	2.000	390.000
37395	306.00	307.00	0.011	-4.000		-5.000	309.000	-2.000	1340.000	4.000	429.000

Laboratory:	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB
Detection Limit:	0.000	0.000	0.000	0.000	0.000	2.000	5.000	1.000	10.000
Method:	GG309	GA140	GA104	GA140	GA140	GA101	AAS	HA101	GX401

Sample	project name	date collected	hole number	depth from	depth to	ANALAB Cu ppm GA140	ANALAB Pb ppm GA140	ANALAB Zn ppm GA140	ANALAB Mn_a ppm AAS	ANALAB Ag ppm GA101	ANALAB As_a ppm HA10	ANALAB Au ppm GG309	ANALAB Au(s) ppm GG3	ANALAB Au(r) ppm GG3	ANALAB Ba_a ppm GX40
37401	BASIN	29/07/94	TYN008	65.00	66.00	179.000	19.000	120.000	228.000	-2.000	6.000	-0.008			692.000
37402	BASIN	29/07/94	TYN008	66.00	67.00	191.000	17.000	49.000	127.000	-2.000	5.000	0.013			798.000
37403	BASIN	29/07/94	TYN008	67.00	68.00	284.000	19.000	59.000	140.000	-2.000	6.000	0.011			198.000
37404	BASIN	29/07/94	TYN008	68.00	69.00	332.000	15.000	49.000	109.000	-2.000	4.000	0.013			267.000
37405	BASIN	29/07/94	TYN008	69.00	70.00	184.000	19.000	93.000	242.000	-2.000	5.000	0.015	0.011		421.000
37406	BASIN	29/07/94	TYN008	70.00	71.00	238.000	21.000	92.000	246.000	-2.000	5.000	0.016			376.000
37407	BASIN	29/07/94	TYN008	71.00	72.00	290.000	19.000	83.000	214.000	-2.000	5.000	0.010			322.000
37408	BASIN	29/07/94	TYN008	72.00	73.00	107.000	14.000	42.000	107.000	-2.000	3.000	-0.008			191.000
37409	BASIN	29/07/94	TYN008	73.00	74.00	96.000	10.000	26.000	71.000	-2.000	3.000	-0.008			100.000
37410	BASIN	29/07/94	TYN008	74.00	75.00	115.000	18.000	37.000	423.000	-2.000	6.000	0.385			397.000
37411 (STD)	BASIN	29/07/94	TYN008				24.000	19.000	309.000	2.000	23.000	-0.008		-0.008	1452.000
37412	BASIN	29/07/94	TYN008	164.00	165.00	13.000	24.000	51.000	1253.000	-2.000	9.000	-0.008			1106.000
37413	BASIN	29/07/94	TYN008	165.00	166.00	115.000	28.000	54.000	1234.000	-2.000	7.000	-0.008			394.000
37414	BASIN	29/07/94	TYN008	170.00	171.00	61.000	26.000	26.000	1092.000	-2.000	6.000	-0.008			685.000
37415	BASIN	29/07/94	TYN008	171.00	172.00	-4.000	25.000	29.000	1091.000	-2.000	7.000	-0.008			861.000
37416	BASIN	29/07/94	TYN008	172.00	173.00	48.000	24.000	31.000	1085.000	-2.000	8.000	-0.008			814.000
37417	BASIN	29/07/94	TYN008	173.00	174.00	38.000	24.000	53.000	1134.000	-2.000	6.000	-0.008			739.000
37418	BASIN	29/07/94	TYN008	185.00	186.00	-4.000	21.000	46.000	802.000	-2.000	10.000	-0.008			553.000
37419	BASIN	29/07/94	TYN008	186.00	187.00	-4.000	22.000	70.000	1054.000	-2.000	12.000	-0.008			987.000
37420	BASIN	29/07/94	TYN008	193.00	194.00	-4.000	22.000	56.000	1028.000	-2.000	9.000	-0.008			776.000
37421	BASIN	29/07/94	TYN008	198.00	199.00	-4.000	22.000	67.000	1045.000	-2.000	9.000	-0.008	-0.008		1151.000
37422	BASIN	29/07/94	TYN008	199.00	199.80	-4.000	20.000	53.000	905.000	-2.000	9.000	-0.008		-0.008	764.000

Laboratory:	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB	ANALAB		ANALAB	ANALAB	ANALAB
Detection Limit:	0.000	0.000	0.000	5.000	2.000	1.000		0.000	0.000	10.000
Method:	GA140	GA140	GA140	AAS	GA101	HA101		GG309	GG309	GX401

APPENDIX 7

DHEM Surveys for TYN006 and TYN007

837088

Report on Three Component Down Hole Pulse EM Results

from

The Mount Julia and Tyndal Prospects Tasmania

on behalf of

R.G.C. Exploration Pty Ltd

by

R. C. Deakin

September 1994

CONTENTS

ACCOMPANYING PLANS

Mt Julia PEM Log Z Comp. MJ-002
Mt Julia PEM Log X Comp. MJ-002
Mt Julia PEM Log Y Comp. MJ-002
Mt Julia, MJ-002, Current Filament Modelling Result

} Not included.

Tyndal PEM Log Z Comp. TY-006 (PLAN 12)
Tyndal PEM Log X Comp. TY-006 (PLAN 10)
Tyndal PEM Log Y Comp. TY-006 (PLAN 11)
Tyndal PEM Log Z Comp. TY-007 (PLAN 15)
Tyndal PEM Log X Comp. TY-007 (PLAN 13)
Tyndal PEM Log Y Comp. TY-007 (PLAN 14)

1. Introduction

1.1 In June 1994, R.G.C. Exploration contracted Outer Rim Exploration Services to log three exploration drill holes; MJ-002 at Mt Julia and holes TY-006 and TY-007 at their Tyndal prospect. The three holes were logged with the Crone three component TEM system where the Z,X and Y components of the secondary field were recorded at discrete intervals down each drill hole.

Drill hole MJ-001 at Mt Julia was logged by the same system in November 1993 and those results have been commented on by this author (Deakin 1994). Essentially that data set showed no anomalies of interest.

1.2 The Mt Julia drill hole MJ-002 was logged with one transmitting (Tx) Loop (Loop 1) which was approximately 300m x 400m with the drill hole collar near its centre.

The Tyndall drill holes used a single Tx Loop (Loop 2) which was rectangular, approximately 350m x 600m and encompassed the two drill hole collars.

3. Tyndall Results

3.1 Both drill holes TY-006 and TY-007 are located directly beneath high voltage powerlines and significant interference from that cultural feature is evident in both data sets.

3.2 **DH TY-006:**

The Z component results show a broad high near the top of the hole and decaying signal levels beyond 80m depth. From channel 7 onward time channels undergo alternate positive and negative datum shifts which appears to be a consequence of the powerline interference.

The X component results for the first four time channels have a distinct cross over from positive up hole to negative down hole at 35m to 40m depth. Beyond channel 5 the data is essentially at noise level.

The Y component results have a narrow high at 35m depth for channels 1 to 5. Beyond channel 5 the data is essentially noise and, similarly to the Z component results, undergos alternate positive and negative datum shifts which are interpreted as power line effects.

These results from TY-006 for the early (channels 1 to 5) times are similar to the MJ-002 logs with a shallow, short wavelength, anomaly is the X & Y components which is not apparent in the Z component data.

3.3 **DH T7-007:**

The results from this drill hole are virtually featureless. The Z component data and to some extent the Y component data, like TY-006, have alternating positive and negative datam shifts which are attributed to powerline interference. All the data past channel 4 is essentially at noise level.

Early times in the X component have a weak cross over, similar to TY-006 and MJ-002, at about 100m depth. That feature has no distinct parallel in the Y component results and correlates with a broad decaying signal in the Z component results.

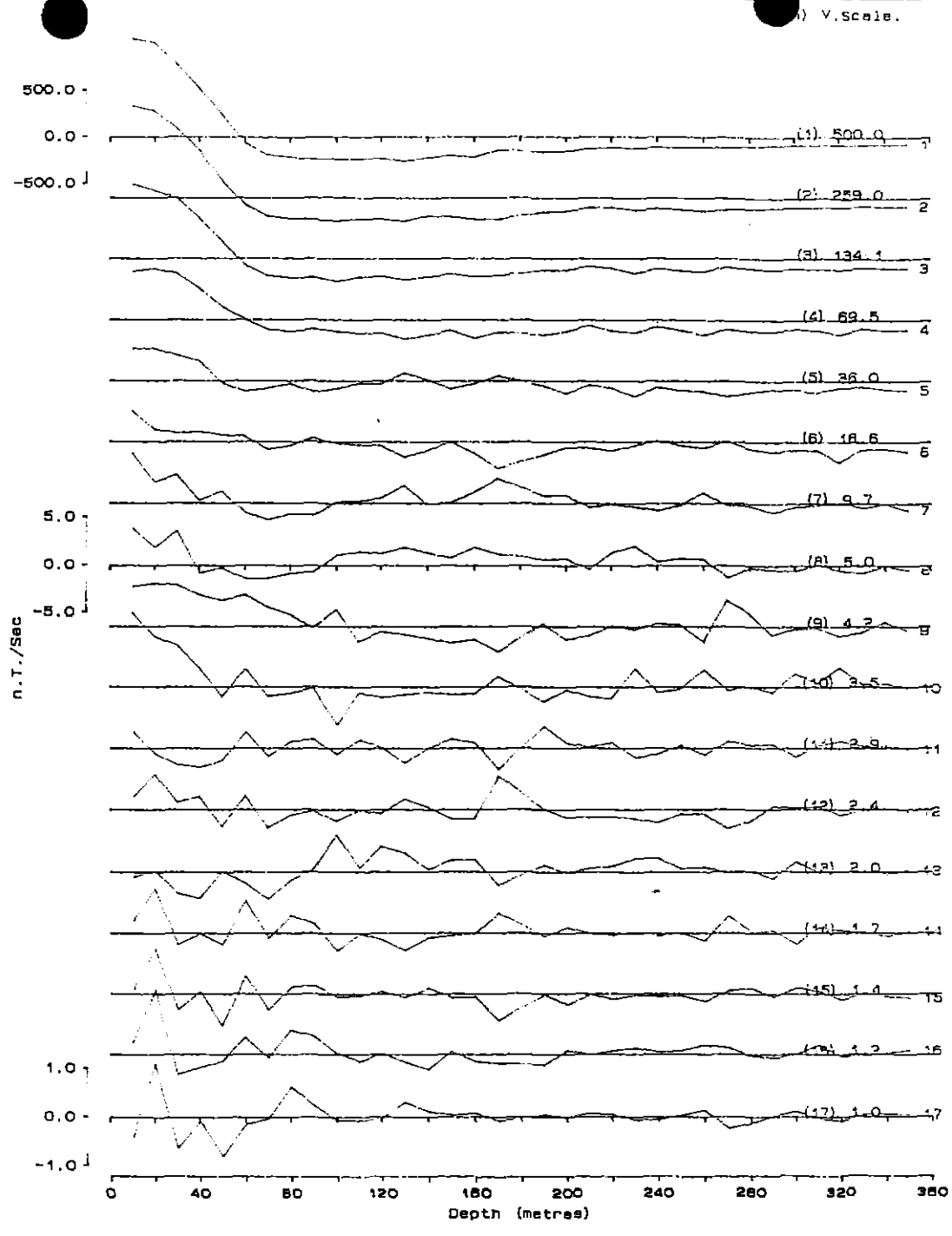
No conductors of significance are indicated in the down hole PEM results.

4. Conclusions.

The down hole, three component EM results from MJ-002, TY-006 and TY-007 are all characterised by low signal levels and high noise. The Tyndall holes are grossly affected by powerline effects.

Early time results (channels 1 to 5 approx.) are similar for all three holes, particularly MJ-002 and TY-006.

The short wavelength X component cross over and the corresponding short wavelength Y component high are difficult to reconcile with the Z component results which have a broad shallow high above a gradually decaying signal. The Z component data is consistent with the expected half space effect whereas the X and Y components are indicative of a shallow weak conductor.



R. Deakin & Assoc.

Specifications :

Operator: G. Dunn
Date: July 1994
Down Hole Loop Configuration
Instr: Crone 3 Comp
Crone Times

No. of Stacks 512
Current = 10.00 Amp
Vert. Scaling: Displaced Linear

Tx Loop Area : 400 sq.m.

Fixed Loop 2
381250E/357100N
381600E/357100N
381550E/356500N
381230E/356550N

PLAN 10

RGC Exploration

TYNDAL AREA

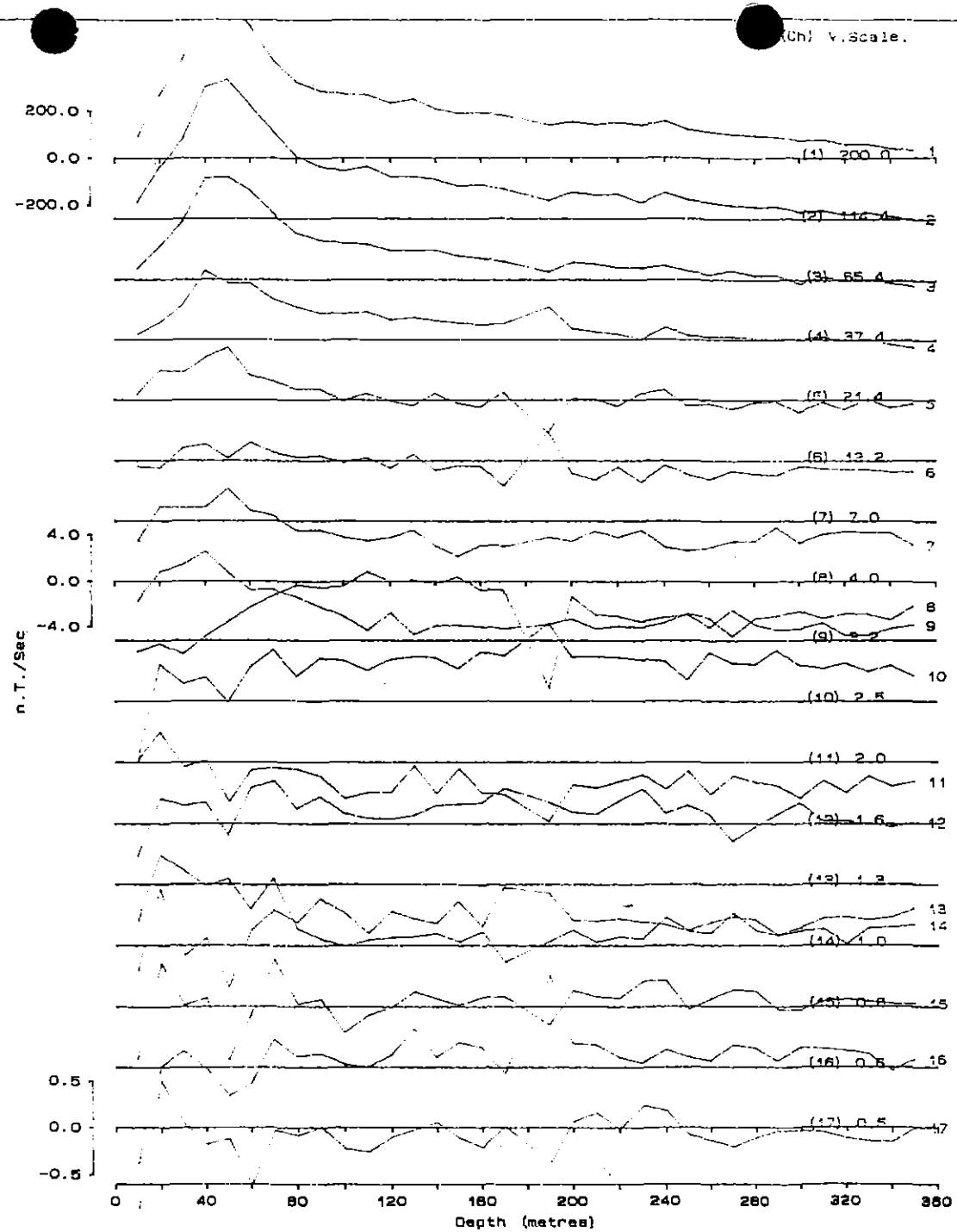
EL 14/93 Tasmania

DH TY-006

CRONE DH TEM Survey

X Component

93-1-63



R. Deakin & Assoc.

Specifications :

Operator: G. Dunn
Date: July 1994
Down Hole Loop Configuration
Instr: Crone 3 Comp
Crone Times

No. of Stacks 512
Current = 10.00 Amp
Vert. Scaling: Displaced Linear

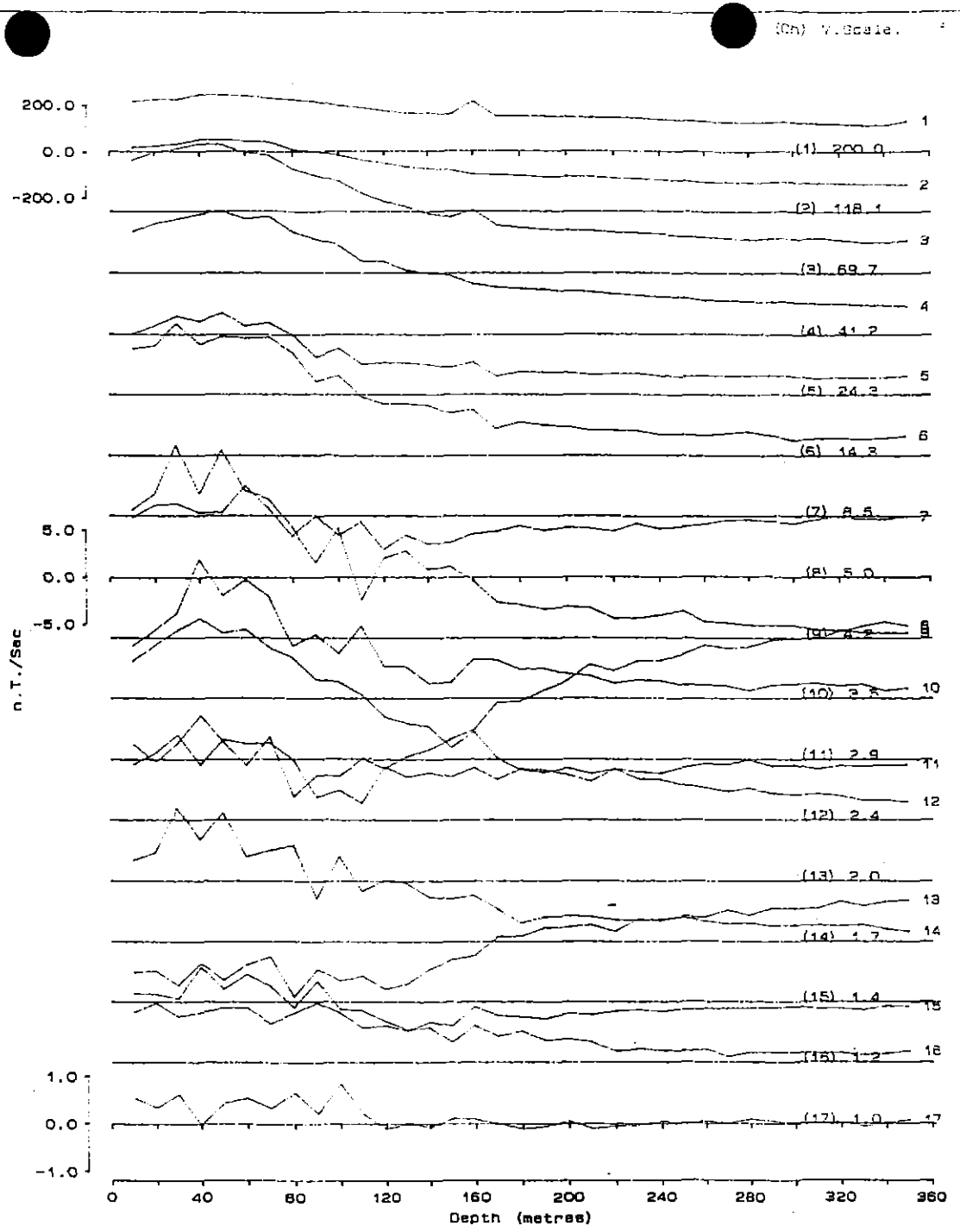
Tx Loop Area : 400 sq.m.

Fixed Loop 2
381250E/357100N
381600E, 357100N
381550E/356600N
381230E/356550N

PLAN II

RGC Exploration

TYNDAL AREA
EL 14/93 Tasmania
DH TY-006
CRONE DH TEM Survey
Y Component



R. Dean & Assoc.

Specifications :

Operator: G. Dunn
Date: July 1994
Down Hole Loop Configuration
Instr: Crone 3 Comp
Crone Times

No. of Stacks 512
Current = 10.00 Amp
Vert. Scaling: Displaced Linear

Tx Loop Area : 400 sq.m.

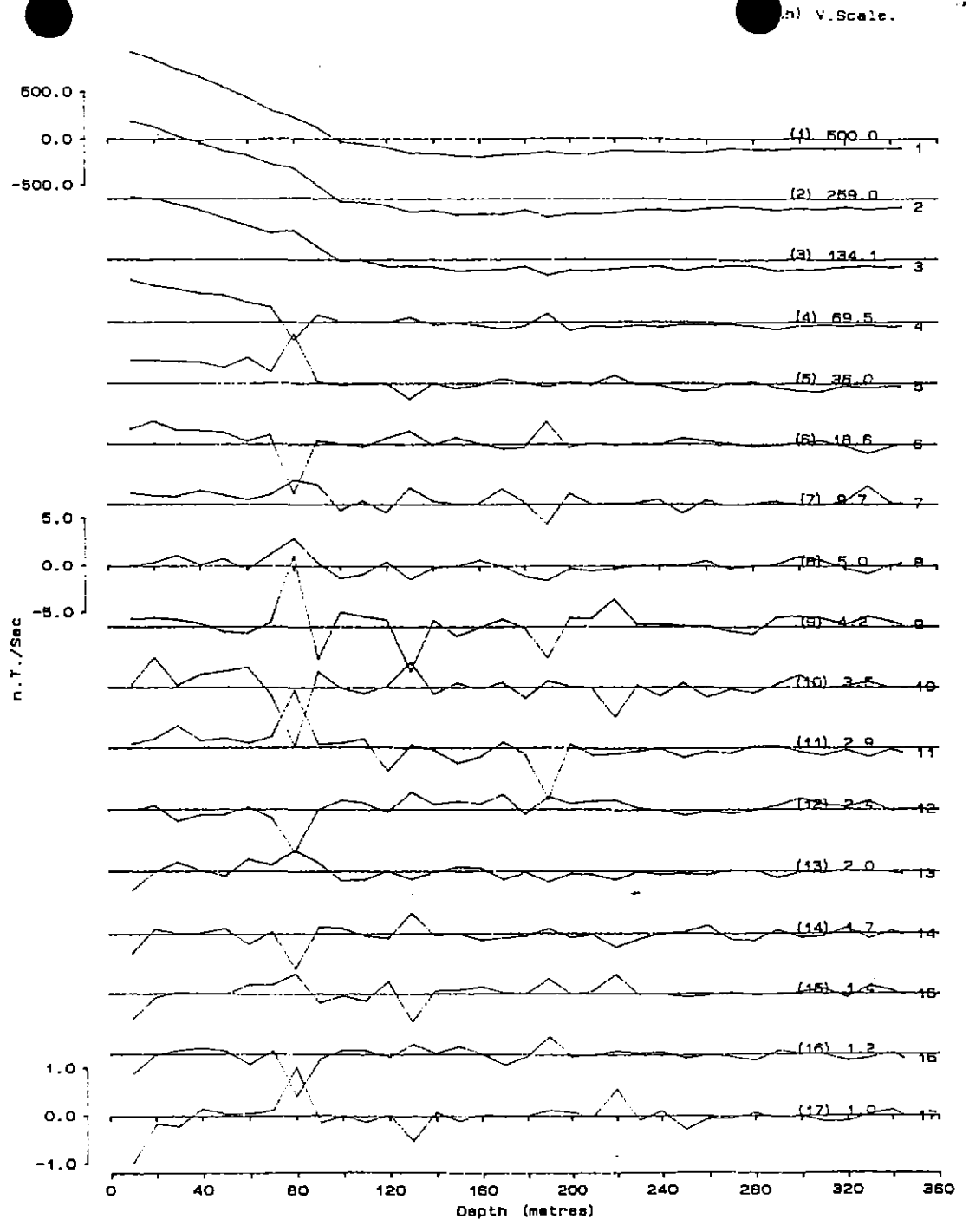
Fixed Loop 2
381250E/357100N
381600E/357100N
381550E/356500N
381230E/356550N

PLAN 12

RGC Exploration

TYNDAL AREA
EL 14/93 Tasmania
DH TY-006
CRONE DH TEM Survey
Z (Axial) Component

CC 94 03



R. Deak & Assoc.

Specifications :

Operator: G. Dunn
Date: July 1994
Down Hole Loop Configuration
Instr: Crone 3 Comp
Crone Times

No. of Stacks 512
Current = 10.00 Amp
Vert. Scaling: Displaced Linear

Tx Loop Area : 400 sq.m.

Fixed Loop 2
381250E/357100N
381600E/357100N
381550E/356500N
381230E/356550N

PLAN 13

RGC Exploration

TYNDAL AREA

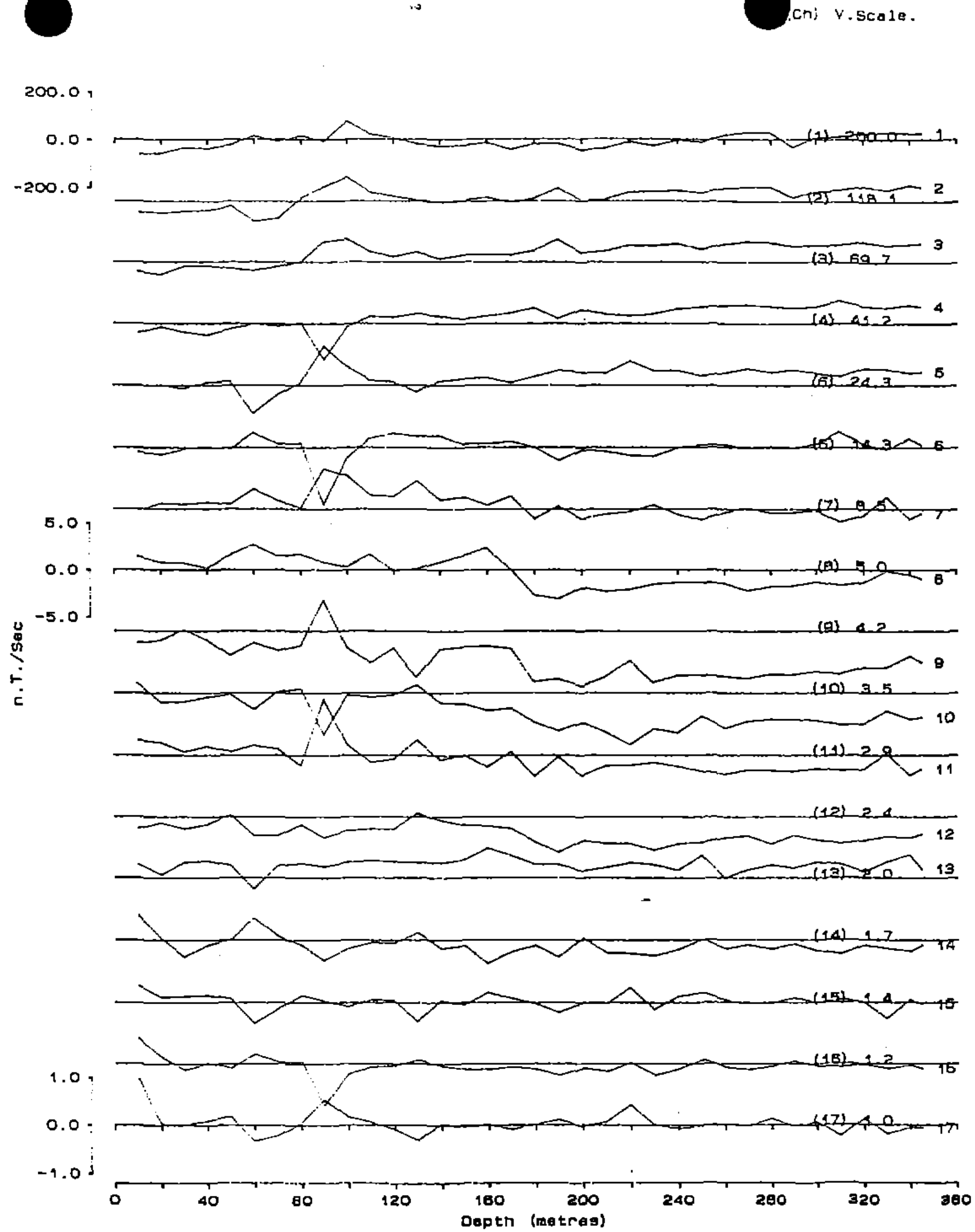
EL 14/93 Tasmania

DH TY-007

CRONE DH TEM Survey

X Component

90-13-88



R. Deakin & Assoc.

Specifications :

Operator: G. Dunn.
Date: July 1994
Down Hole Loop Configuration
Instr: Crone 3 Comp
Crone Times

No. of Stacks 512
Current = 10.00 Amp
Vert. Scaling: Displaced Linear

Tx Loop Area : 400 sq.m.

Fixed Loop 2
381250E/357100N
381600E/357100N
381550E/356500N
381230E/356550N

PLAN 14

RGC Exploration

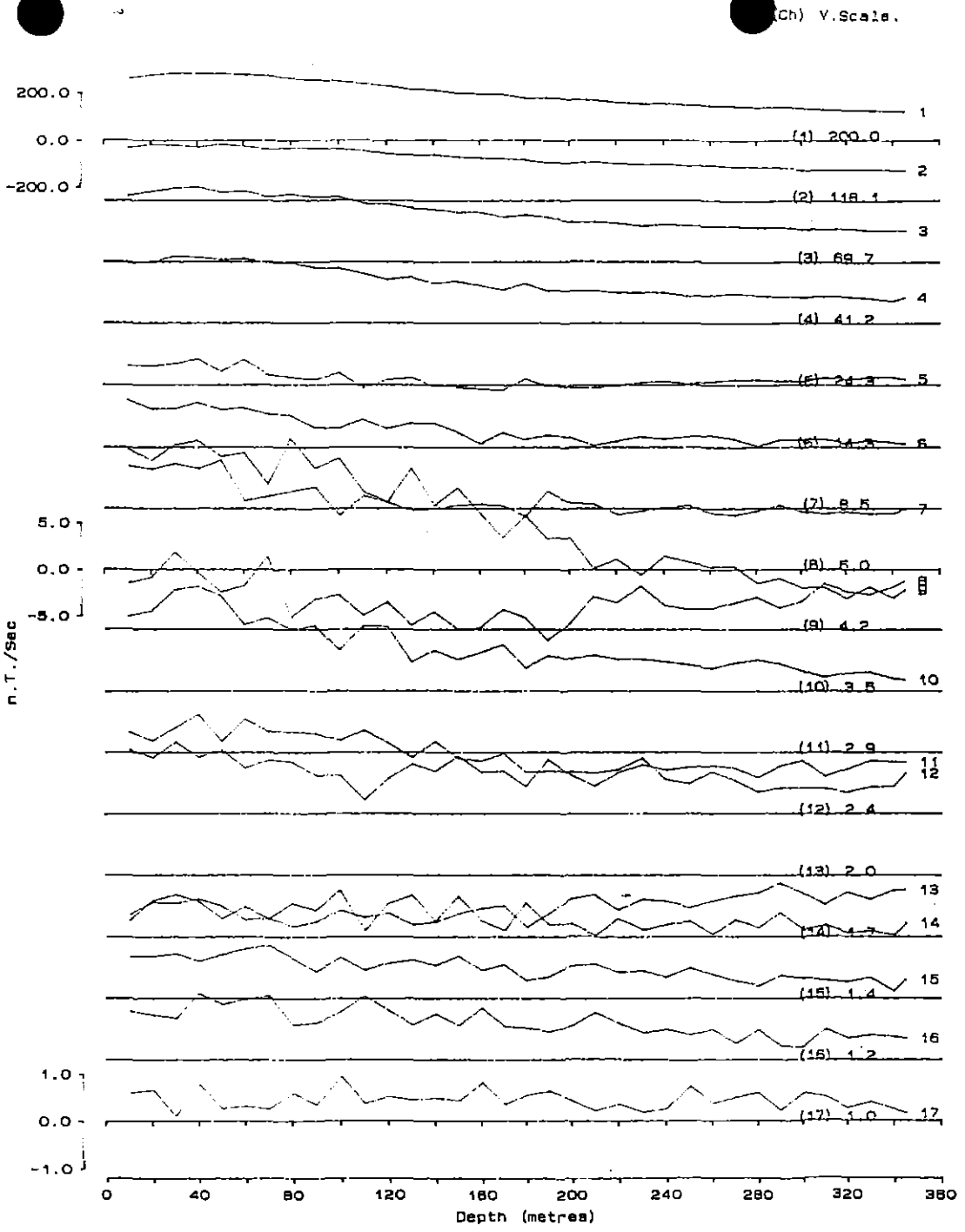
TYNDAL AREA

EL 14/93 Tasmania

DH TY-007

CRONE DH TEM Survey

Y Component



R. Dear[illegible] & Assoc.

Specifications :

Operator: G. Dunn
Date: July 1994
Down Hole Loop Configuration
Instr: Crone 3 Comp
Crone Times

No. of Stacks 512
Current = 10.00 Amp
Vert. Scaling: Displaced Linear

Tx Loop Area : 400 sq.m.

Fixed Loop 2
381250E/357100N
381600E/357100N
381550E/356500N
381230E/356550N

PLAN IS

RGC Exploration

TYNDAL AREA
EL 14/93 Tasmania
DH TY-007
CRONE DH TEM Survey
Z (Axial) Component

00[illegible]

LEGEND

- YOUNGER COVER – LARGELY OMITTED
- €Oo — OWEN CONGLOMERATE – UNDIFFERENTIATED
- €tu — EARLY CAMBRIAN VOLCANICLASTIC SEDIMENTS
  - €tc — EPICLASTIC SEDIMENTS
  - €ttsh — AGHY SILTSTONE
  - €tt — VOLCANICLASTIC SANDSTONE – COMSTOCK TUFF
  - €ttpl — CHERT BEARING VOLCANICLASTIC CONGLOMERTE
  - €ttcl — CHLORITIC VOLCANICLSTIC SEDIMENTS
  - €ttd — DACITIC VOLCANICLASTIC SEDIMENTS, CARBONATES + RHYOLITE IGNIMBRITES
  - €tte — EPICLASTIC SEDIMENTS
  - €av — ANDESITIC VOLCANICLASTIC SEDIMENTS AND CARBONATES
- €a — ANDESITE LAVAS AND LAVA BRECCIAS
  - €av — ANDESITIC VOLCANICLASTIC SEDIMENTS AND CARBONATES
  - €as — BLACK SILTSTONES; MASSIVE SULPHIDE HORIZON IN DRILLHOLE BL004
- €cv — CENTRAL VOLCANIC SEQUENCE – UNDIFFERENTIATED
- €ws
  - €p — QUARTZ–FELDSPAR PORPHYRY–INTRUSIVE
  - €wst — FELSIC VOLCANICLASTIC SEDIMENTS
  - €wss — SILTSTONE AND SHALES
- €hf — HENTY FAULT WEDGE SEQUENCE – UNDIFFERENTIATED

- FAULT
- GEOLOGICAL BOUNDARY – ACCURATE
- GEOLOGICAL BOUNDARY – INFERRED
- GEOLOGICAL BOUNDARY – APPROX.
- BEDDING
- COMPOSITIONAL BANDING
- DIP INFERRED FROM DRILLHOLE SEQUENCE
- PROMINENT AIRMAG TREND

GEOLOGICAL INTERPRETATION IS BASED ON 1:5000 & 1:10000 MAPPING AND DRILLHOLE INFORMATION HAS BEEN TAKEN FROM CORRETA,K.D. 1986. MT ROAD VOLCANICS PROJECT MAP 3. GEOLOGY OF THE HENTY RIVER–MT READ AREA.

5 cm

BASIN LAKE SHEET LAYOUT

SHEET1

SHEET2

RGC EXPLORATION PTY. LIMITED

GEOLOGIST	M.VICARY
DRAWN	M.WALTER
DATE	11/93
CHECKED	M.VICARY
SCALE	1:5000

E.L. 14/93 BASIN LAKE

GEOLOGICAL INTERPRETATION

SHEET 1 of 2

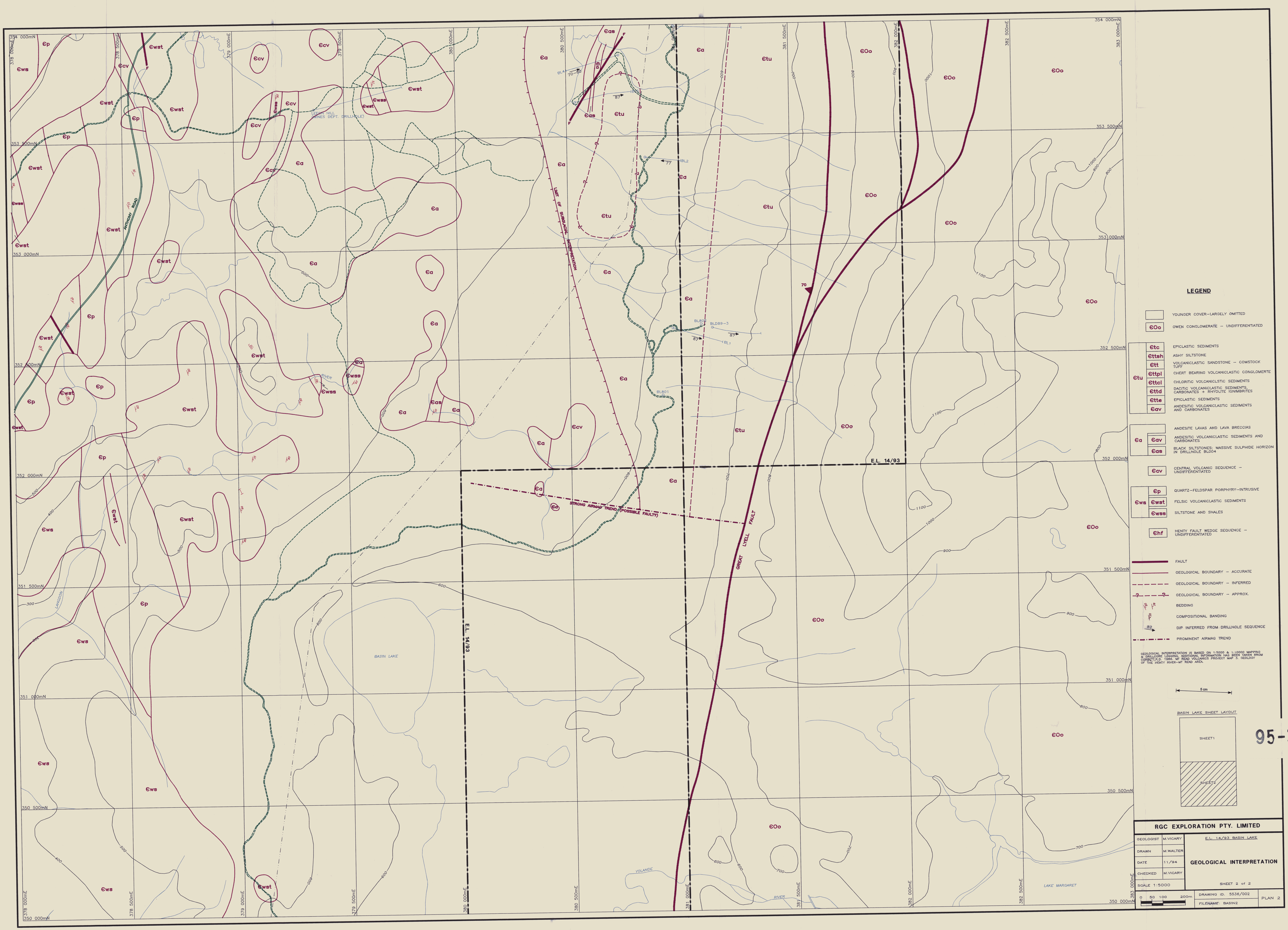
0 50 100 200m

DRAWING ID. 5536/001 — PLAN 1

FILENAME: BASIN1

837109

95-3665

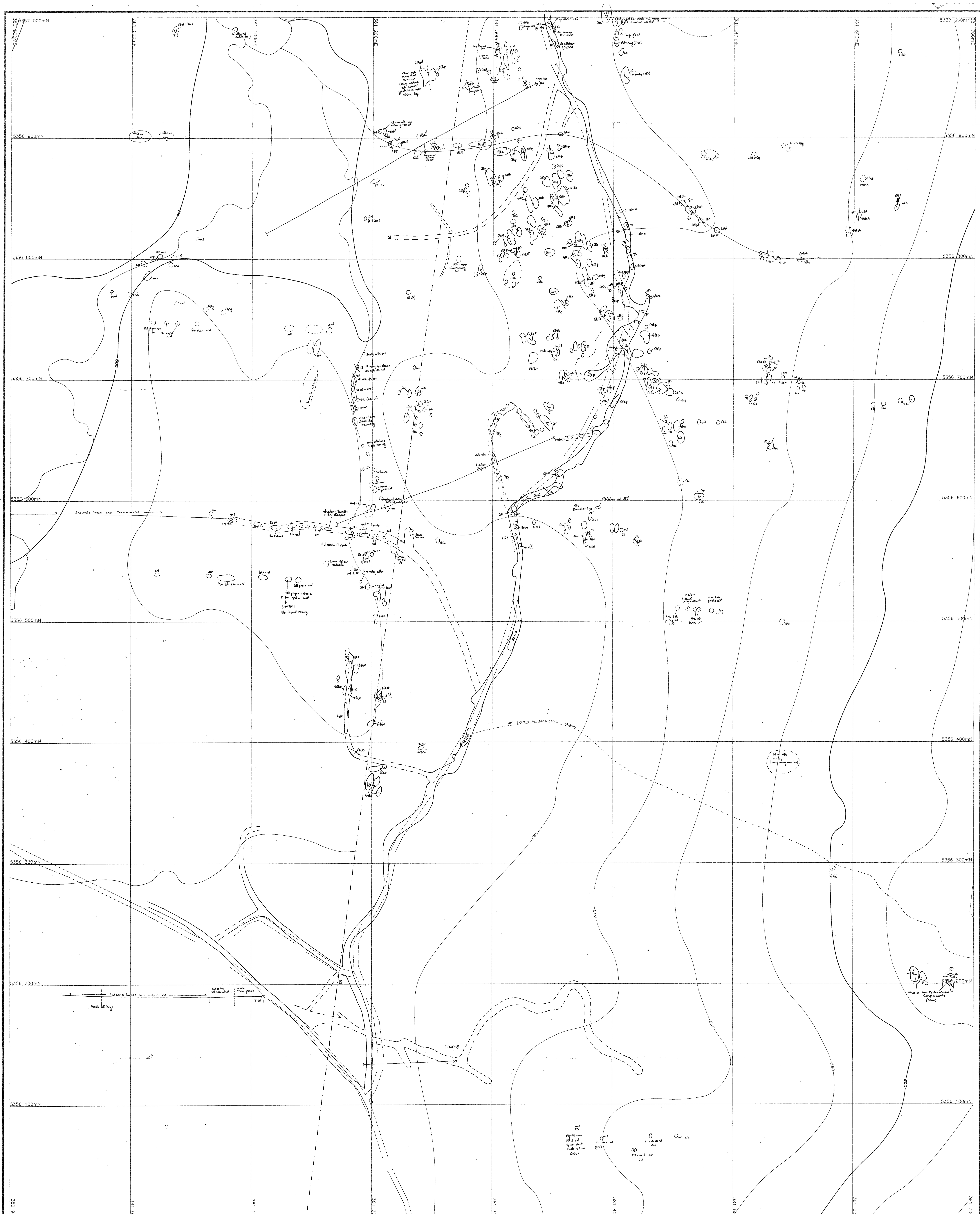


837110

95-3665

BASIN LAKE
1:1000

5536-006



95-3665

FIELD LOCATIONS AND TRACKS TAKEN FROM 1:1000 AIRPHOTO ENLARGEMENT (MT READ-1108, RUN 2, NEG NO. 55, FLOWN 17/2/88)

GEOLOGICAL LEGEND

€Oom	OWEN CONGLOMERATE
€tu	UNDIFFERENTIATED TYNDALL GROUP
€tc	EPICLASTIC SEDIMENTS
€ttsh	ASHY SILTSTONE
€tt: €ttb	COMSTOCK TUFF WITH BANDED ALTERATION
€tt: €ttp	COMSTOCK TUFF WITH PATCHY ALTERATION
€tt: €ttsh / €ts	ASHY SILTSTONE AND GREY VOLCANICLASTIC SANDSTONE
€tt: €ttpl	CHERT BEARING PEBBLE-COBBLE VOLCANICLASTIC CONGLOMERATE
€ttcl: €ttcl	CHLORITIC VOLCANICLASTIC SANDSTONE
€ttcl: €ttclc	POLYMICT VOLCANICLASTIC CONGLOMERATE
€ti/€ttsh	QUARTZ-FELDSPAR PHYRIC IGNIMBRITE + ASHY SILTSTONE
€carb	CARBONATE
€ttd: €ttd	FELDSPAR RICH DACITIC VOLCANICLASTIC SANDSTONE
€ttd: €ttds	"AS ABOVE" WITH ASHY SILTSTONE + €ti(?)
€tte	FELDSPAR-QUARTZ RICH EPICLASTIC SEDIMENT
€carb	CARBONATE
€ts	BLACK SILTSTONE, VOLCANICLASTIC SANDSTONE(MINERALISED HORIZON)
€av	FELDSPAR RICH ANDESITIC VOLCANICLASTIC SANDSTONE
€a	FELDSPAR ∓ FERROMAG PHYRIC ANDESITE LAVA

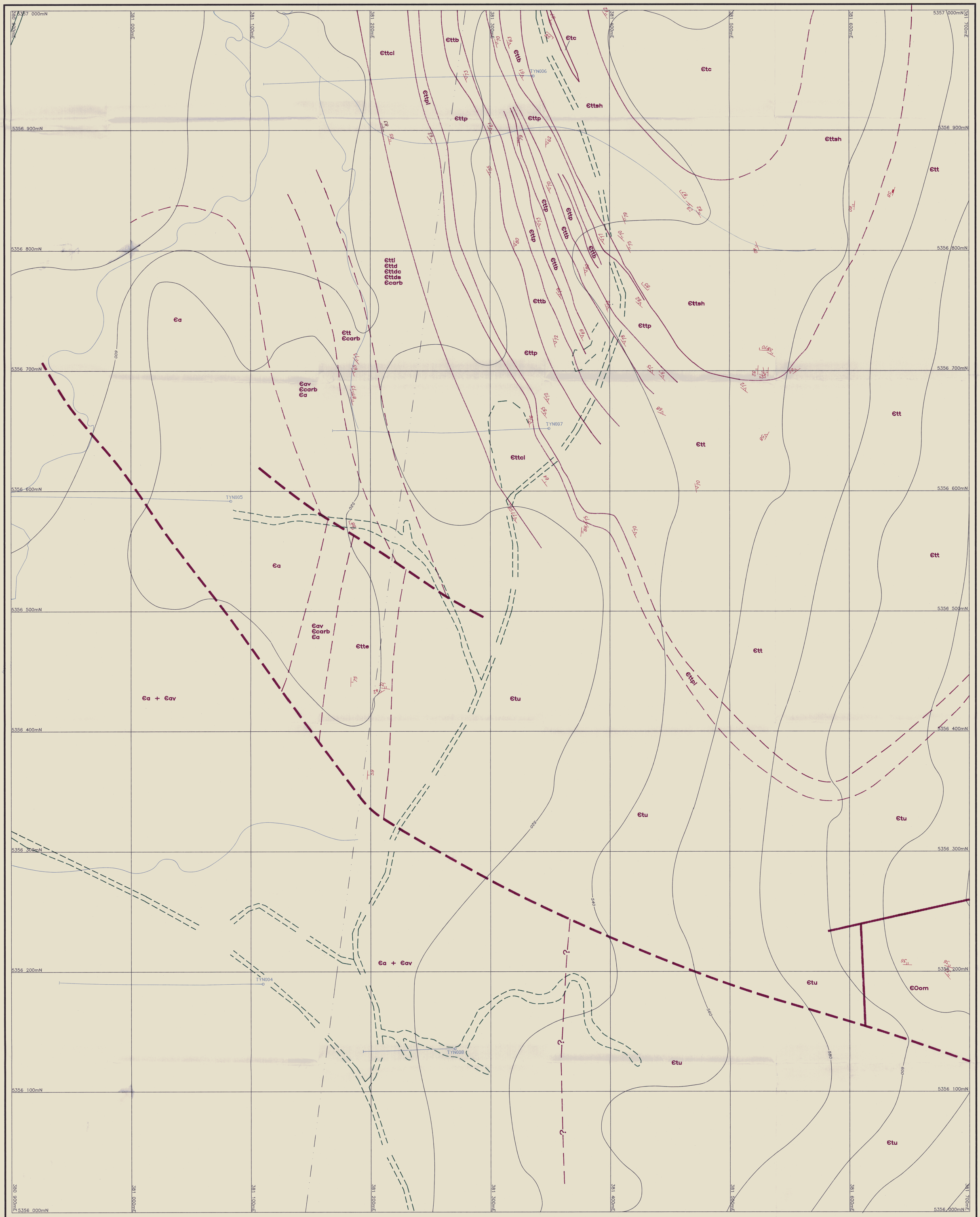
⬭	OUTCROP
(dashed)	FLOAT
73	COMPOSITIONAL BANDING
58	BEDDING
o——	DRILL HOLE

BASIN LAKE SHEET LAYOUT: SHEET 1A, SHEET 1, SHEET 2

RGC EXPLORATION PTY. LIMITED

COMPILED	M VICARY	BASIN LAKE E.L. 14/93
DRAWN	M.WALTER	TYNDALL PROSPECT.
DATE	MAY 1994	1:1000 FACT GEOLOGY.
CHECKED		5 cm
1.25000 REF		

DRAWING ID: 5536/0016
FILENAME BASIN1A
0 10 20 40 60 80m SCALE 1:1000
PLAN 3



GEOLOGICAL LEGEND

- EOom — OWEN CONGLOMERATE
- Etu — UNDIFFERENTIATED TYNDALL GROUP
- Etc — EPICLASTIC SEDIMENTS
- Ettsh — ASHY SILTSTONE
- Ett
  - Ettb — COMSTOCK TUFF WITH BANDED ALTERATION
  - Ettp — COMSTOCK TUFF WITH PATCHY ALTERATION
  - Ettsh, Ets — ASHY SILTSTONE AND GREY VOLCANICLASTIC SADSTONE
  - Ettpl — CHERT BEARING PEBBLE–COBBLE VOLCANICLASTIC CONGLOMERATE
- Ettcl
  - Ettcl — CHLORITIC VOLCANICLASTIC SANDSTONE
  - Ettclc — POLYMICT VOLCANICLASTIC CONGLOMERATE
- Eti/Ettsh — QUARTZ–FELDSPAR PHYRIC IGNIMBRITE + ASHY SILTSTONE
- Ecarb — CARBONATE
- Ettd — FELDSPAR RICH DACITIC VOLCANICLASTIC SANDSTONE
- Ettds — "AS ABOVE" WITH ASHY SILTSTONE + Eti(?)
- Ette — FELDSPAR–QUARTZ RICH EPICLASTIC SEDIMENT
- Ecarb — CARBONATE
- Ets — BLACK SILTSTONE, VOLCANICLASTIC SANDSTONE(MINERALISED HORIZON)
- Eav — FELDSPAR RICH ANDESITIC VOLCANICLASTIC SANDSTONE
- Ea — FELDSPAR ∓ FERROMAG PHYRIC ANDESITE LAVA

- FAULT
- FAULT, INFERRED
- GEOLOGICAL BOUNDARY
- GEOLOGICAL BOUNDARY, INFERRED
- 50 — COMPOSITIONAL BANDING
- 84 — BEDDING

BASIN LAKE SHEET LAYOUT

SHEET 1A
SHEET 1
SHEET 2

837112

95-3665

RGC EXPLORATION PTY. LIMITED

GEOLOGIST	M.VICARY
DRAWN	M.WALTER
DATE	11/93
CHECKED	M.VICARY
1:25000 REF.	

BASIN LAKE E.L. 14/93

GEOLOGICAL INTERPRETATION

5 cm

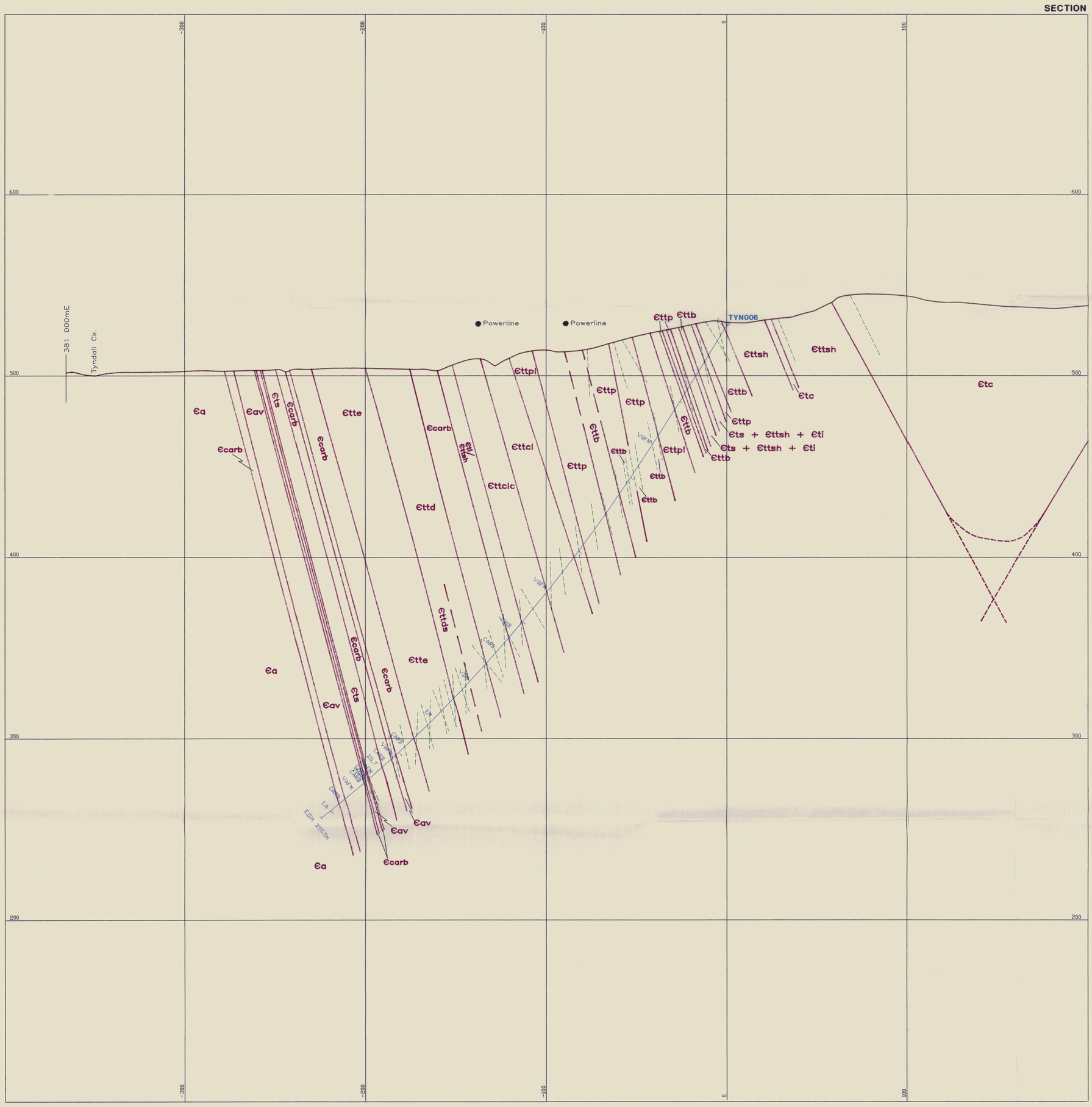
DRAWING ID: 5536/003
FILENAME: BASIN1A

0 10 20 40 60 80m
SCALE 1:1000

PLAN 4

PLANVIEW

SECTION



GEOLOGICAL LEGEND

Etc	EPICLASTIC SEDIMENTS	
Ettsh	ASHY SILTSTONE	
Ett: Ettb	COMSTOCK TUFF WITH BANDED ALTERATION	
Ett: Ettp	COMSTOCK TUFF WITH PATCHY ALTERATION	
Ett: Ettsh, Ette	ASHY SILTSTONE AND GREY VOLCANICLASTIC SANDSTONE	
Ett: Ettpl	CHERT BEARING PEBBLE–COBBLE VOLCANICLASTIC CONGLOMERATE	
Ettcl: Ettcl	CHLORITIC VOLCANICLASTIC SANDSTONE	
Ettcl: Ettcic	POLYMICT VOLCANICLASTIC CONGLOMERATE	
Eti/ Ettsh	QUARTZ–FELDSPAR PHYRIC IGNIMBRITE + ASHY SILTSTONE	
Ecarb	CARBONATE	
Ettd: Ettd	FELDSPAR RICH DACITIC VOLCANICLASTIC SANDSTONE	
Ettd: Ettds	"AS ABOVE" WITH ASHY SILTSTONE + Eti(?)	
Ette	FELDSPAR–QUARTZ RICH EPICLASTIC SEDIMENT	
Ecarb	CARBONATE	
Ets	BLACK SILTSTONE, VOLCANICLASTIC SANDSTONE(MINERALISED HORIZON)	
Eav	FELDSPAR RICH ANDESITIC VOLCANICLASTIC SANDSTONE	
Ea	FELDSPAR ∓ FERROMAG PHYRIC ANDESITE LAVA	

FAULT
GEOLOGICAL BOUNDARY
GEOLOGICAL BOUNDARY, INFERRED
STRUCTURAL DATA ON SECTION
V73 COMPOSITIONAL BANDING
58 BEDDING

837113

95-3665

RGC EXPLORATION PTY. LIMITED

GEOLOGIST	M.VICARY
DRAWN	M.WALTER
DATE	JUNE 1994
CHECKED	M.VICARY
1:25000 REF.	

BASIN LAKE PROSPECT E.L. 14/93

DRILLHOLE TYN006
GEOLOGY PLAN & SECTION

5 cm

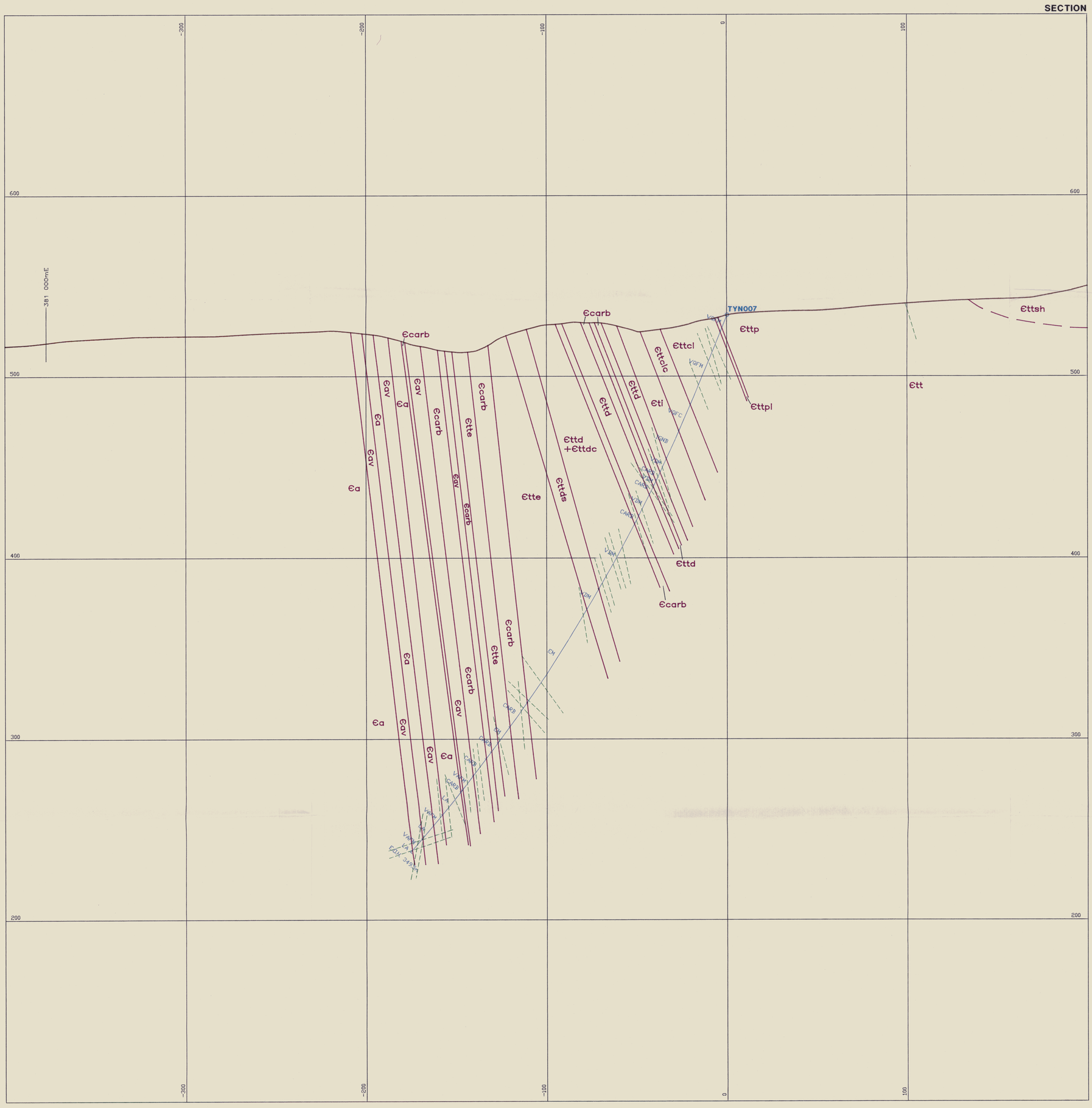
DRAWING ID: 5536/008
FILENAME: TYN006

SCALE 1:1000

PLAN 5

PLANVIEW

SECTION



GEOLOGICAL LEGEND

Etc	EPICLASTIC SEDIMENTS	
Ettsh	ASHY SILTSTONE	
Ett	Ettb	COMSTOCK TUFF WITH BANDED ALTERATION
	Ettp	COMSTOCK TUFF WITH PATCHY ALTERATION
	Ettsh, Ets	ASHY SILTSTONE AND GREY VOLCANICLASTIC SANDSTONE
	Ettpl	CHERT BEARING PEBBLE–COBBLE VOLCANICLASTIC CONGLOMERATE
Ettcl	Ettcl	CHLORITIC VOLCANICLASTIC SANDSTONE
	Ettclc	POLYMICT VOLCANICLASTIC CONGLOMERATE
Eti/Ettsh		QUARTZ–FELDSPAR PHYRIC IGNIMBRITE + ASHY SILTSTONE
Ecarb		CARBONATE
Ettd	Ettd	FELDSPAR RICH DACITIC VOLCANICLASTIC SANDSTONE
	Ettds	"AS ABOVE" WITH ASHY SILTSTONE + Eti(?)
Ette		FELDSPAR–QUARTZ RICH EPICLASTIC SEDIMENT
Ecarb	Ecarb	CARBONATE
	Ets	BLACK SILTSTONE, VOLCANICLASTIC SANDSTONE(MINERALISED HORIZON)
	Eav	FELDSPAR RICH ANDESITIC VOLCANICLASTIC SANDSTONE
Ea		FELDSPAR ∓ FERROMAG PHYRIC ANDESITE LAVA

FAULT
GEOLOGICAL BOUNDARY
GEOLOGICAL BOUNDARY, INFERRED
STRUCTURAL DATA ON SECTION
V 73 COMPOSITIONAL BANDING
11 58 BEDDING

95-3665

837114

RGC EXPLORATION PTY. LIMITED

BASIN LAKE PROSPECT E.L. 14/93

DRILLHOLE TYN007
GEOLOGY PLAN & SECTION

5 cm

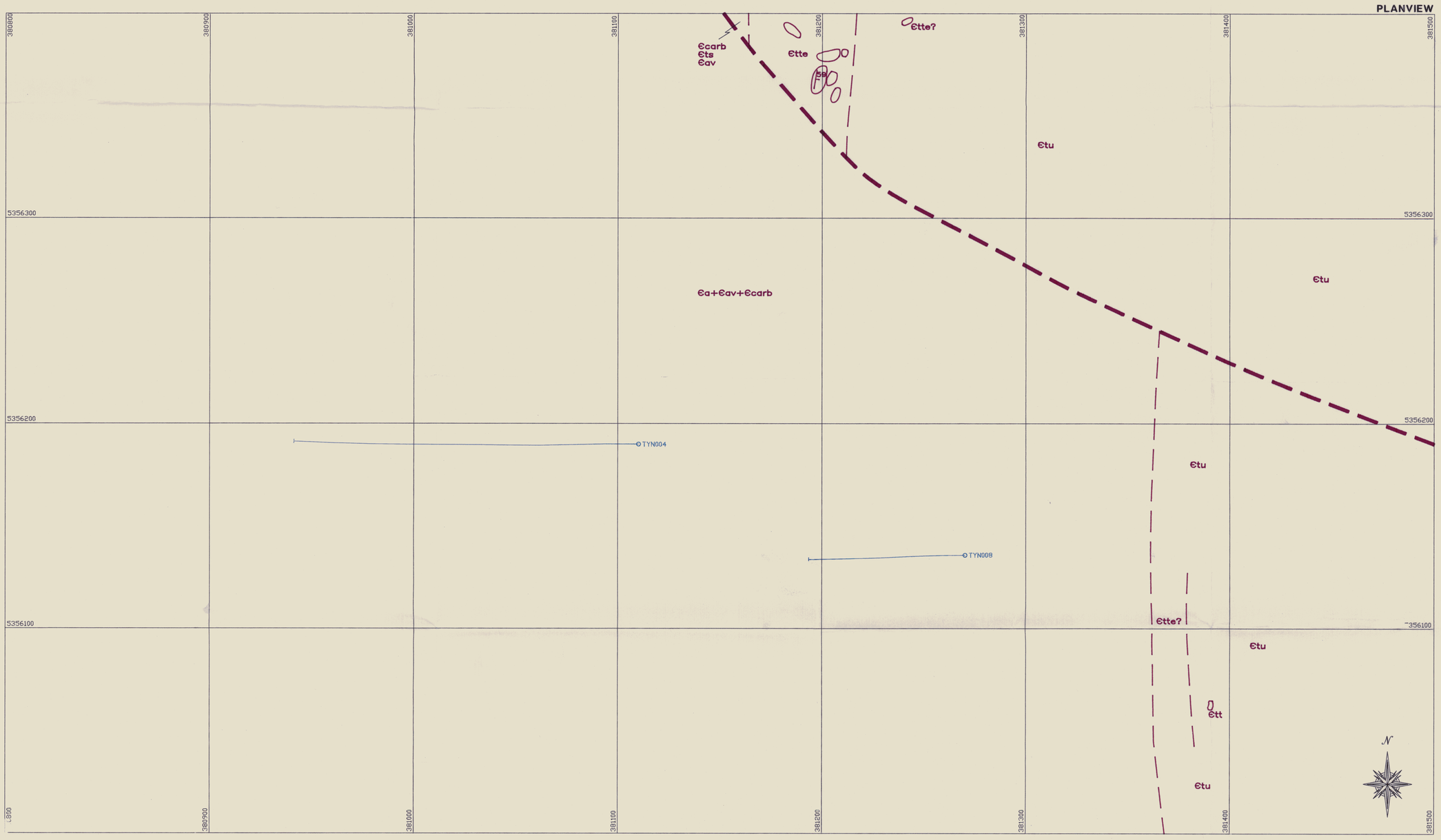
GEOLOGIST	M.VICARY
DRAWN	M.WALTER
DATE	JULY 1994
CHECKED	M.VICARY
1:25000 REF.	

DRAWING ID: 5536/009
FILENAME: TYN007

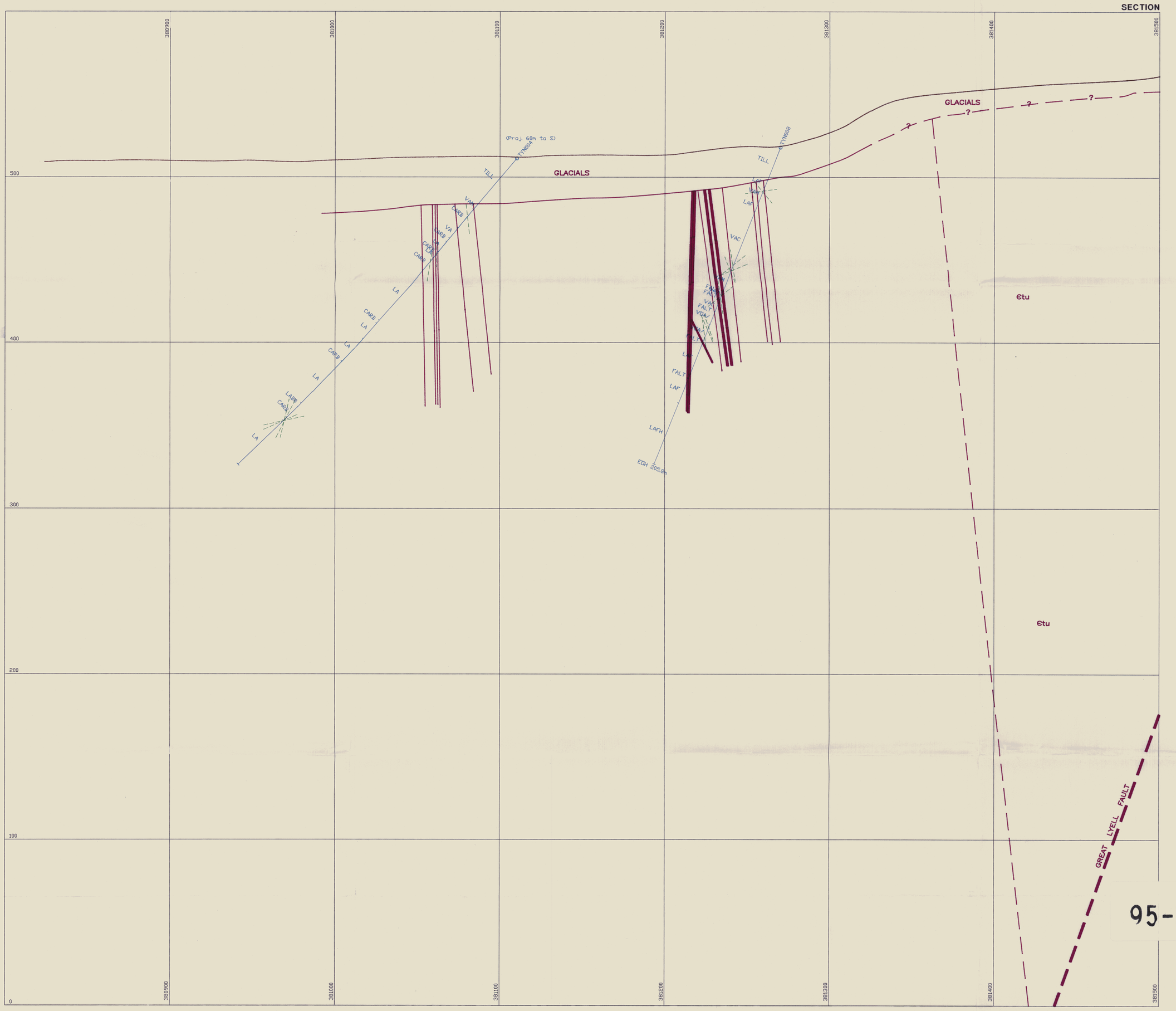
SCALE 1:1000

PLAN 6

PLANVIEW



SECTION



95-3665

GEOLOGICAL LEGEND

- Etu — UNDIFFERENTIATED TYNDALL GROUP
- Etc — EPICLASTIC SEDIMENTS
- Ettsh — ASHY SILTSTONE
- Ett
  - Ettb — COMSTOCK TUFF WITH BANDED ALTERATION
  - Ettp — COMSTOCK TUFF WITH PATCHY ALTERATION
  - Ettsh, Ets — ASHY SILTSTONE AND GREY VOLCANICLASTIC SANDSTONE
  - Ettpl — CHERT BEARING PEBBLE–COBBLE VOLCANICLASTIC CONGLOMERATE
- Ettcl
  - Ettcl — CHLORITIC VOLCANICLASTIC SANDSTONE
  - Ettclc — POLYMICT VOLCANICLASTIC CONGLOMERATE
- Eti/Ettsh — QUARTZ–FELDSPAR PHYRIC IGNIMBRITE + ASHY SILTSTONE
- Ecarb — CARBONATE
- Ettd
  - Ettd — FELDSPAR RICH DACITIC VOLCANICLASTIC SANDSTONE
  - Ettds — "AS ABOVE" WITH ASHY SILTSTONE + Eti(?)
- Ette — FELDSPAR–QUARTZ RICH EPICLASTIC SEDIMENT
- Ecarb
  - Ecarb — CARBONATE
  - Ets — BLACK SILTSTONE, VOLCANICLASTIC SANDSTONE(MINERALISED HORIZON)
  - Eav — FELDSPAR RICH ANDESITIC VOLCANICLASTIC SANDSTONE
- Ea — FELDSPAR ∓ FERROMAG PHYRIC ANDESITE LAVA

- FAULT
- GEOLOGICAL BOUNDARY
- GEOLOGICAL BOUNDARY, INFERRED
- STRUCTURAL DATA ON SECTION
- V 73 — COMPOSITIONAL BANDING
- 58 — BEDDING

837115

RGC EXPLORATION PTY. LIMITED

GEOLOGIST	M.VICARY
DRAWN	M.WALTER
DATE	AUG. 1994
CHECKED	M.VICARY
1:25000 REF.	

BASIN LAKE PROSPECT E.L. 14/93

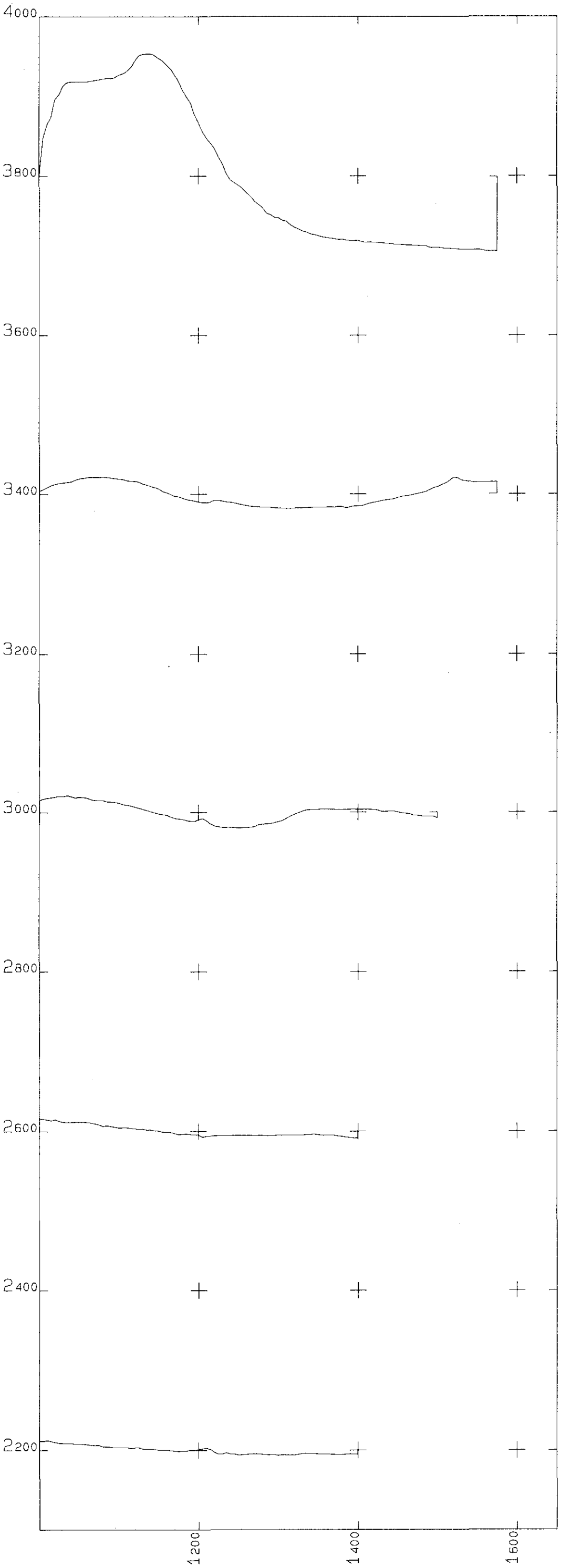
DRILLHOLE TYN008
GEOLOGY PLAN & SECTION

5 cm

DRAWING ID: 5536/010
FILENAME: TYN008

SCALE 1:1000

PLAN 7



N

837116

95-3665

SCALE

1: 5000

0 50 100 150 200 250 300
m m

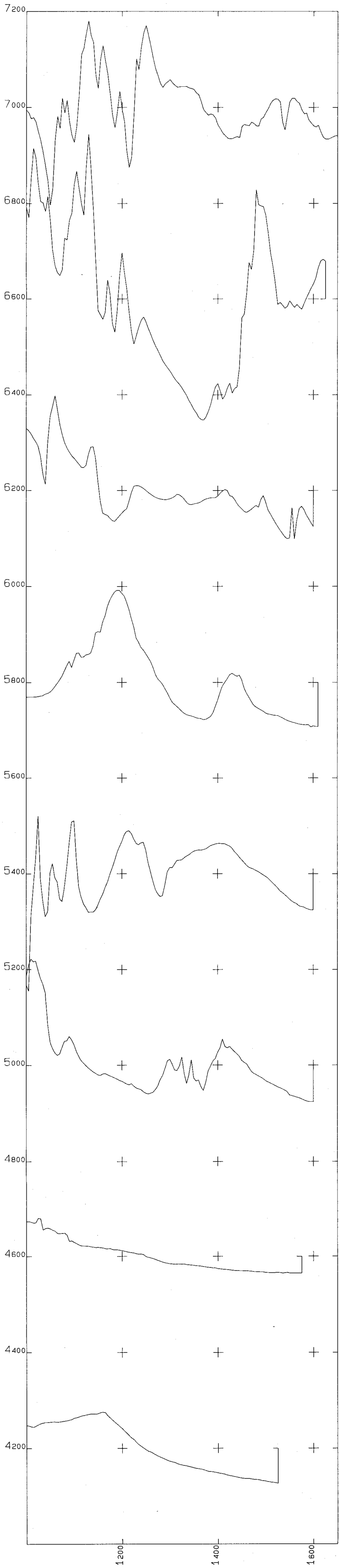
5 cm

RGC EXPLORATION PTY LIMITED

BASIN LAKE - EL 14/93, TAS.
TYNDALL
Ground Magnetic Survey
STACKED PROFILES of
TOTAL MAGNETIC INTENSITY
Vertical Scale = 100nT/cm
Sheet 1 of 2

PLAN 8

Compiled by:	Date: 12 Jul 1994
Drawn by: S.R.	Drawing No.: 5536/012



837117

95-3665

SCALE

1: 5000

0 50 100 150 200 250 300

m m

5 cm

RGC EXPLORATION PTY LIMITED

BASIN LAKE - EL 14/93, TAS.
TYNDALL
Ground Magnetic Survey
STACKED PROFILES of
TOTAL MAGNETIC INTENSITY
Vertical Scale = 100nT/cm
Sheet 2 of 2

PLAN 9

Compiled by:	Date: 12 Jul 1994
Drawn by: S.R.	Drawing No.: 5536\013