



EXPLORATION

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ACN 001 426 946

96-3816

ANNUAL REPORT
DEC 1994 - DEC 1995

MICROFILMED
FICHE No.013937 - 43

TASMANIAN BASE METALS PROJECT

E.L. 14/93

BASIN LAKE



Vol 1 of 2
Text and Appendices

HELD BY: RENISON LIMITED

MANAGER & OPERATOR: RGC EXPLORATION

PROJECT	EL 14/93
DATE	20 DEC 1995
OPERATOR	See folio 76
AUTHOR	Michael Vicary
FILE NO	
DATE	

AUTHOR(s): Michael Vicary

14 December 1995

PROSPECTS: Basin Lake, Tyndall Creek

MAP SHEETS:

1:25,000: Tyndall
Gormanston

1:100,000: Sophia
Franklin

GEOGRAPHIC COORDS

Min East: 380 000mE
Min North: 5349 000mN

Max East: 382 000mE
Max North: 5357 000mN

COMMODITY(s): Zn, Pb, Cu, Au, Ag

KEY WORDS: Basin Lake, Exhalitive Massive Sulphide Deposits, Henty Horizon

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96-3816

ANNUAL REPORT 1994-95 TASMANIAN BASE METALS
PROJECT EL 14/93 BASIN LAKE - RGC EXPLORATION
VICARY M - VOLUME 1 OF 2

SUMMARY

EL 14/93 - Basin Lake is located approximately 8 km south of the Henty Mine. The target at Basin Lake is a volcanic hosted massive sulphide deposit developed at the contact between the Anthony Road Andesite and the Tyndall Group, a sequence of interbedded rhyolitic - dacitic volcanoclastic sediments and lavas. This contact is a proven exhalite horizon and hosts mineralisation at Henty and Howards Anomaly.

The EL is covered by extensive glacial deposits (up to 40m thick) and the geological interpretation is based on the results of subglacial diamond drilling, limited geological mapping and a Helimag survey.

The aim of the exploration program at Basin Lake is to test the exhalite horizon close to a mineralising structure. Diamond drill core logging and geological mapping has been used to establish a detailed stratigraphy across the exhalite horizon. Rapid along strike changes in lithology, facies and unit thickness are considered to represent the influences of synvolcanic faulting (growth faults) and the location of such faults is of primary importance as they are the potential pathways for mineralising fluids. The Great Lyell Fault which longitudinally bisects the EL was an active structure during Cambrian volcanism and several diamond drill holes have targeted the intersection of the exhalite horizon with the fault. The Helimag data suggests the presence of a series of E - W cross faults in the EL. Many of these faults have the potential to be mineralising structures.

The results of the current drilling program are encouraging. A 120m wide basemetal poor pyrite - sericite alteration zone was intersected in TYN011 (Best intersection: 17m @ 0.12% Zn) and several holes have intersected low temperature distal carbonates at the Tyndall Group - Andesite contact. Future exploration will target the TYN011 zone at depth and its along strike continuation.

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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, 1994 and initially had an area of 8 sq km. In January 1995 a further 3 sq km was incorporated into the EL making its present area 11 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.

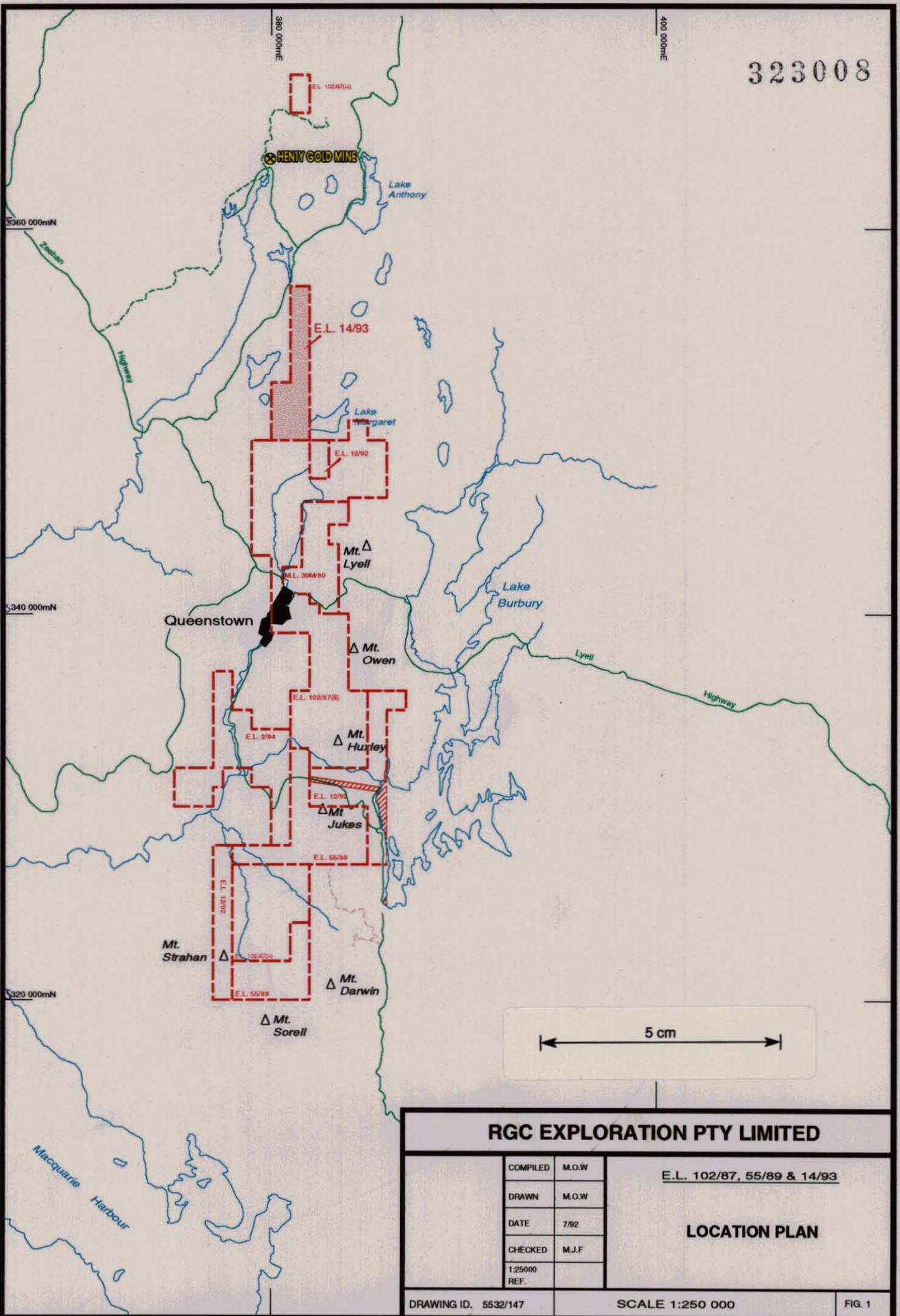
The area was acquired for its potential to host Rosebery style Cu-Pb-Zn-Ag and Henty style Au mineralisation.

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 LIMITED

COMPILED	M.O.W
DRAWN	M.O.W
DATE	7/92
CHECKED	M.J.F
1:25000 REF.	

E.L. 102/87, 55/89 & 14/93

LOCATION PLAN

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. Costeaming and a second drill hole, were recommended to test other anomalies within this zone but the program 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 Bradshaws 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.

The ground within EL 14/93 was held by an Aberfoyle - Billiton Joint Venture as EL 103/87 from 1987 until it was relinquished in April 1993. 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 volcanoclastics (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.

In the period January 1994 - January 1995, the first year of tenure, the work completed by RGC Exploration in EL 14/93 - Basin Lake (see Vicary, 1994) 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 BLD89-3),
- 3) Drilling of 3 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.

4. WORK COMPLETED

In the period January 1995 - January 1996 the work completed in EL 14/93 - Basin Lake includes the following:-

- 1) Drilling of 4 diamond drill holes (TYN009, 010, 011 and 012),
- 2) A Self Potential Survey near BL001,
- 3) A Helimag Survey,
- 4) Down hole EM surveys of holes TYN008 to TYN012, and
- 5) 315 split core samples from various drill holes were analysed.

5. RESULTS

5.1 Diamond Drilling

Four Diamond drill hole were drilled at Basin Lake in 1995. The table below summarises the results. Drill logs are included in Appendices 2 to 5 and Appendix 1 lists the codes and symbols used in the drill logs.

HOLE	NORTHING	EASTING	AZIMUTH	INCLINATION	COMMENTS
TYN009	5355651.49	381153.03	090	-55	Collared in Lower Tyndall Group. Didn't test exhalite horizon
TYN010	5351947	380810	090	-65	Tyndall Group - Andesite contact intersected at 130.4 m. No pyrite alteration or exhalative carbonate intersected
TYN011	5353347	381001	090	-70	Extensive zones of disseminated pyrite intersected in basal Tyndall Group from 284 - 444 m.
TYN012	5352320	380917	099	-67	Extensive carbonate veining and massive carbonate intersected at andesite - Tyndall Group contact from 195.5 - 214.3 m.

5.1.1 TYN009

TYN009 was designed to test the extension of the andesite - Tyndall Group contact south of TYN008, and to the north of the Whitham Falls fault. Unexpectedly the hole was collared in quartz-feldspar phyric rhyolites and then intersected a thick sequence of interbedded dacite lavas and dacitic volcanoclastic sediments. These rocks are similar to rocks intersected in drill hole BLD89-3 and can be correlated with the Lower Tyndall Group. The Great Lyell Fault was intersected at 469.6 m and the hole terminated in Owen Conglomerate at 475m (See Plan 1).

The exhalative horizon has not been tested in the fault block between the Whitham Bluff Fault and the Whitham Falls Fault. The inferred andesite - Tyndall Group contact shown on Plan 5 is poorly constrained and the Helimag data

provides little information.

5.1.2 TYN010

TYN010 was planned to intersect the contact between the Anthony Road Andesite and the Tyndall Group close to its intersection with the Great Lyell Fault. The hole intersected the contact earlier than expected since the contact has been offset to the west via a transfer fault that is obvious from the Helimag data (see PLAN 7). A cross section for TYN010 is given in Plan 2. Reconstruction using structural measurements suggests that the Anthony Road Andesite - Tyndall Group contact is overturned and dips between 71 and 82 degrees to the west. This orientation is approximately parallel to the Great Lyell Fault.

The basal unit of the Tyndall Group is an andesitic volcanoclastic siltstone that is overlain by a quartz pyritic volcanoclastic sandstone. It has a true thickness of 10m and is overlain by a unit of rhyolite lava with minor interbedded andesitic volcanoclastic sandstone. The thickness of this sequence is unknown.

Assays across the Tyndall Group - Anthony Road Andesite contact returned only low levels of base metals. The upper and lower contacts of the basal sediment unit has slightly elevated (>1000 ppm) barium levels.

5.1.3 TYN011

Diamond Drill hole TYN011 was sited to test the northern extent of the exhalative horizon intersected in drill hole BL001. The hole was collared about 150 m to the east of drill hole BL002 which tested a combined chargeability and UTEM anomaly and intersected a sequence of andesite lavas and volcanoclastic sediments with a unit of interbedded black siltstones the source of the IP anomaly.

Drill hole TYN011 intersected the same pyritic siltstone horizon from 46.5 to 115.3m. This suggests that the sequence dips about 70 degrees to the west and strikes about 355 true. This is approximately the trend of the IP and UTEM anomaly and parallels the regional strike as shown on the Helimag data (See Plan 3).

The andesite - Tyndall group contact was intersected at 261.15 m. The basal Tyndall Group comprised a 20 m (true thickness) sequence of andesitic volcanoclastic sandstones. This was overlain by 126 m of interbedded rhyolitic lavas and rhyolitic volcanoclastic sediments. The hole terminated in dacitic volcanoclastics at 489.2 m.

An extensive quartz-sericite-pyrite alteration zone was intersected from 284 - 444 m.

5.1.4 TYN012

TYN012 was designed to test an exhalative horizon between BL001, (where pyrite and base metal mineralisation was intersected) and TYN010. The hole intersected andesitic lavas from 25.5 to 138.6 m. A sequence of interbedded dacitic volcanoclastic sediments and hyaloclastite lavas was intersected from 138.6 to 241.15 m. This contained a zone of massive carbonate and intense carbonate veining from 195.5 - 211.85 m. This is considered to be the distal exhalative facies of the mineralisation intersected in BL001. Red Jasper (Tetsusekii) clasts are also present within the dacitic volcanoclastics sequence. From 241.15 to 361.3 m (EOH) the hole intersected a thick unit of weakly altered quartz - feldspar phyric rhyolite lava. A cross section is given in Plan 4.

The hole intersected the target horizon at shallower depths than planned. There is an obvious fault offset to the andesite - Tyndall Group approximately 150m south of BL001. A plot of the Second Horizontal Derivative Function (see Plan 6) suggests an eastward displacements of 100 - 150 m, however the drilling results indicate the andesite - Tyndall Group contact is displaced westward by about 100m. This discrepancy is largely unexplained, but it is most likely that the smoothing function used when calculating the Derivative Function has slightly shifted the +ve to -ve change over position relative to the contact position.

5.2 DRILL HOLE GEOCHEMISTRY

5.2.1 Split Core Analyses

Diamond drill holes TYN009, 010, 011 and 012 have been routinely assayed for Cu, Pb, Zn, Au, Ag and (Mn and Ba). The results are tabulated in Appendix 6. The following table summarises the analyses:-

Summary of Split Core Sampling - Basin Lake EL 1995

Hole	Samples	No. of Samples	Elements (AAS)
TYN009	T41721 - 28	8	Cu, Pb, Zn, Ag, Au
TYN010	T38878 - 98	21	Cu, Pb, Zn, Ag, Au, Mn, Ba
TYN011	T37921 - 99	78	Cu, Pb, Zn, Ag, Au
	T37609 - 743	134	Cu, Pb, Zn, Ag, Au
TYN012	T37801 - 58	58	Cu, Pb, Zn, Ag, Au, Mn, Ba

5.2.1.1 TYN009

TYN009 did not intersect the exhalite horizon and only weak to moderate grades of alteration recorded. A dacitic volcanoclastic sandstone unit with minor disseminated pyrite was intersected at the contact between a rhyolite lava and a sequence of dacite lavas and volcanoclastics. The interval 69 to 75 m was assayed and recorded an average grade of 5m at 186 ppm Cu, 165 ppm Pb, 351 ppm Zn and 0.011 g/t Au.

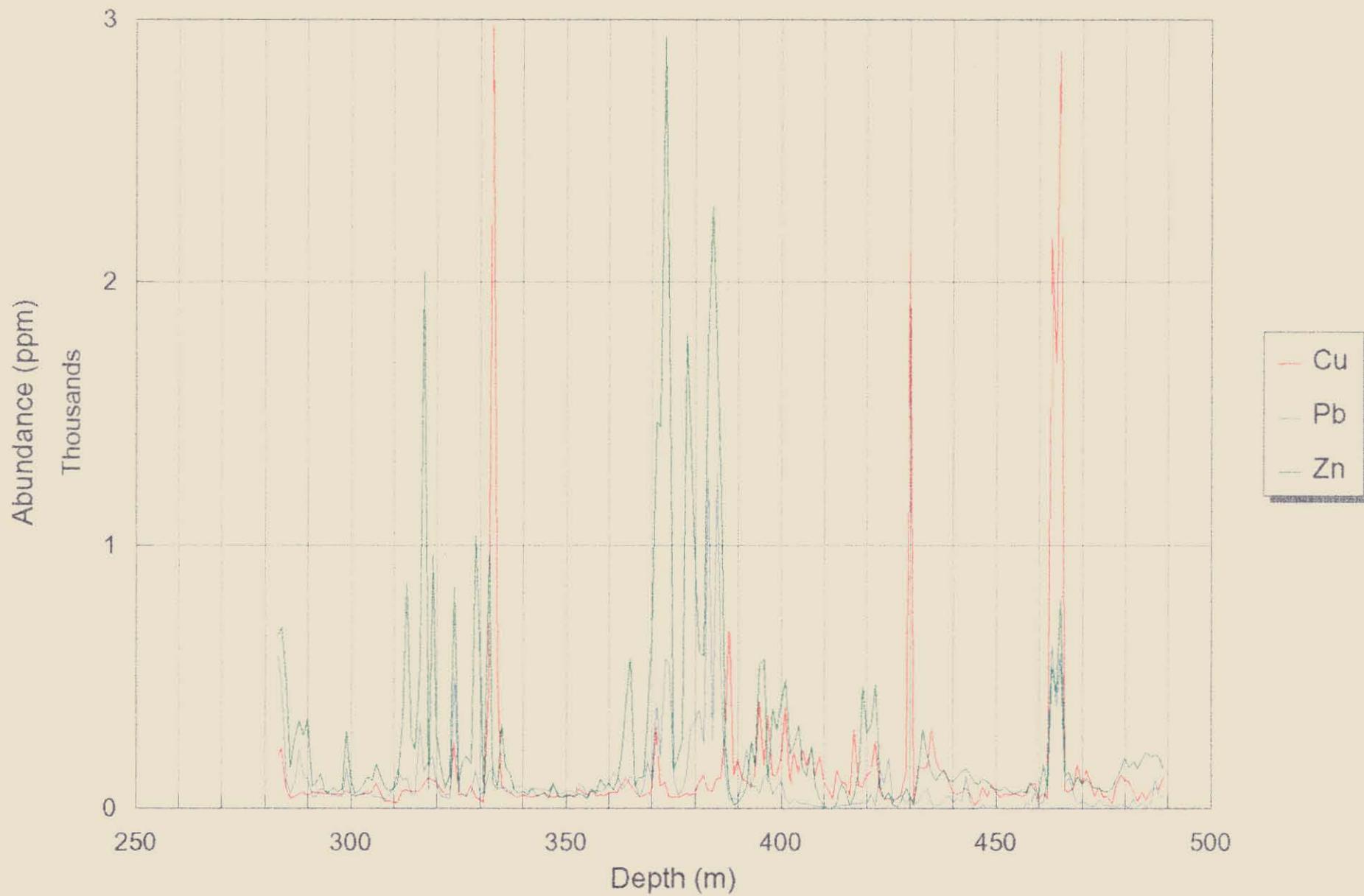
5.2.1.2 TYN010

A sequence of andesitic to rhyolitic sediments was intersected at the Anthony Road Andesite - Tyndall group contact and was assayed from 125 to 145 m. This interval returned only minor base metal abundances with maximum values of 118 ppm Cu, 86 ppm Pb, and 421 ppm Zn. The upper and lower contacts of the sediment package returned 3 m and 1m at greater than 1000 ppm Ba respectively. This probably reflects the exhalative nature of the horizon.

5.2.1.3 TYN011

The pyrite alteration zone intersected in hole TY011 returned only base metal poor assays and averaged 162m at 131 ppm Cu, 111 ppm Pb, and 307 ppm Zn. The results of the assays are summarised below. Figure 2 shows the variation of Cu, Pb and Zn down hole. Three distinct base metal anomalous zones were recorded (ie 310 - 335, 365 - 380 and 430m). The anomalous zone at 465 m corresponds to the thin black siltstone horizon.

TYN011 ASSAYS



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FIGURE 2

Summary of Intersections in TYN011

Interval	From	To	Thickness	Cu	Pb	Zn	Comments
A	202	489	207m	148	99	272	Whole assayed interval
B	282	444	162	131	111	307	Pyrite alteration zone
C	282	290	8	92	218	397	Part of pyrite alteration zone
D	311	337	26	216	113	413	Part of pyrite alteration zone
including	332	333	1	2972	154	92	
E	369	386	17	86	329	1248	Part of pyrite alteration zone
including	370	374	4	133	428	1920	
including	382	386	4	91	810	1750	
F	462	465	3	2245	530	588	Laminated black pyritic siltstones

5.2.1.4 TYN012

TYN012 was sampled at 1m intervals from 188 to 243 m. The variation of Cu, Pb, Zn, Ag, Au and Ba down hole is shown on Figure 3. There are three zones that are anomalous in Ba. They are:-

- A) 118 - 198 m: up to 9785 ppm Ba,
- B) 215 - 218 m: up to 2635 ppm Ba, and
- C) 240 - 242 m: up to 2285 ppm Ba.

Interval A essentially corresponds to a unit of dacitic lava from 118 - 195.5 m. This interval also features coupled Cu, Pb, Zn, and Ag anomalies and above detection Au. Significant intersections within this zone are:-

- a) 187 - 197 m. 10m at 5114 ppm Ba,
- b) 187 - 200 m. 13m at 686 ppm Zn,
- c) 187 - 194 m. 7m at 0.024 ppm Au,
- d) 188 - 189 m. 1m at 598 ppm Cu, 628 ppm Pb, 510 ppm Zn, 26 ppm Ag, 0.050 ppm Au and 4755 Ba,
- e) 191 - 192 m. 1m at 180 ppm Cu, 874 ppm Pb, 1802 ppm Zn, 5 ppm Ag, 0.019 ppm Au and 4695 ppm Ag.

Interval B is associated with a fine grained dacitic volcanoclastic sandstone with minor red jasper that was intersected from 214.3 to 218.8 m. It contains slightly anomalous Cu, Pb, and Zn values.

Interval C corresponds to a similar dacitic volcanoclastic sandstone with 20% carbonate clasts. The two carbonate horizons from 201.7 - 205 m and 208.8 - 211.85 m show no significant Ba or base metal anomalies.

TYN012



323017 FIGURE 3

5.2.2 Lithogeochemical sampling

Fifteen samples were collected from various diamond drill holes to investigate the geochemical differences between the Anthony Road Andesite and the dacite lavas from the Lower Tyndall Group. The results are tabulated in Appendix 6. The following table summarises the analyses:-

Rock Type	Sample No.	Drill Hole	Depth (m)	Elements
Andesite	T41711	TYN006	346.1	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Andesite	T41712	TYN006	354.2	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Andesite	T41713	TYN006	333.8	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Andesite	T41714	TYN007	144.4	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Andesite	T41715	TYN008	157.1	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Andesite	T41716	TYN008	175.8	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Andesite	T41717	TYN008	204.3	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41729	TYN009	81.08	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41730	TYN009	113.4	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41731	TYN009	135.89	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41732	TYN009	339.79	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41733	BLD 89-3	241.38	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41734	BLD 89-3	258.17	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41735	BLD 89-3	289.88	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)
Dacite	T41736	TYN007	87.9	Au + 28 NAA ; Cu,Pb,Zn,Ag (AAS)

REE plots have been used to compare the Anthony Road Andesite to dacitic lavas occurring within the Lower Tyndall Group. Figure 4 shows that the dacites have slightly lower light REE levels and a flatter REE curve compared to the andesites. Data from Crawford et al ,1992 for Suite II rocks is used as a reference. Figure 5 shows a comparison between the Lower Tyndall Group dacites and a rather unrepresentative group of Tyndall Group rocks from Crawford et al ,1992. There is a fair bit of overlap between the two units, however the Tyndall Group rocks from Crawford et al ,1992 tend to display a slightly negative Eu Anomaly.

Recent relogging of the Howards Anomaly drill holes has shown that dacitic lavas and volcanoclastic sediments are also an integral part of the Anthony Road Andesite sequence. This lithogeochemical study will be continued so that it will be possible to fingerprint dacite lavas from the Lower Tyndall Group, Anthony Road Andesite and the Central Volcanics Sequence. This will enable correlation between sequence that superficially are very similar and help in the location of exhalative horizons.

FIGURE 4

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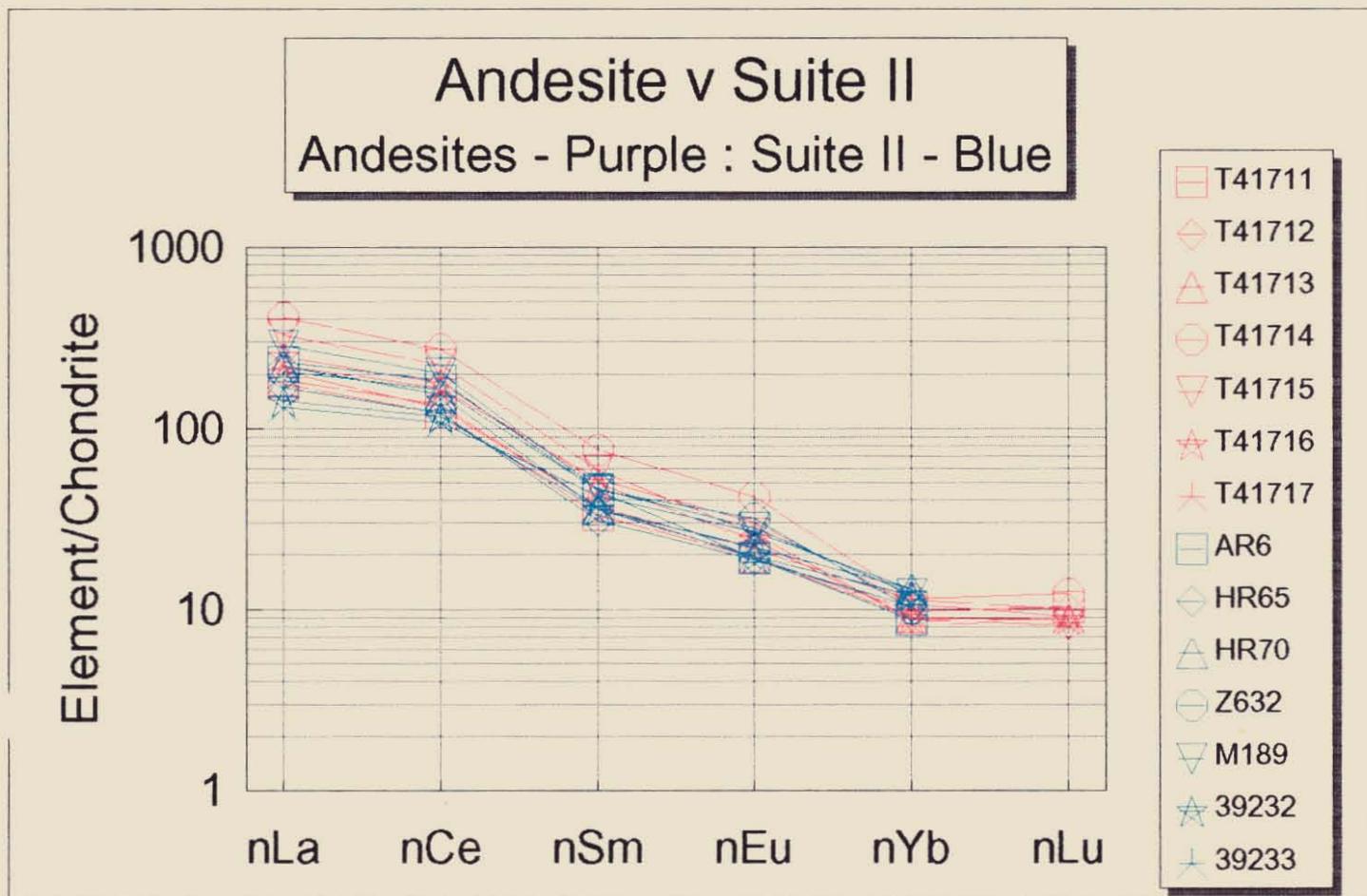
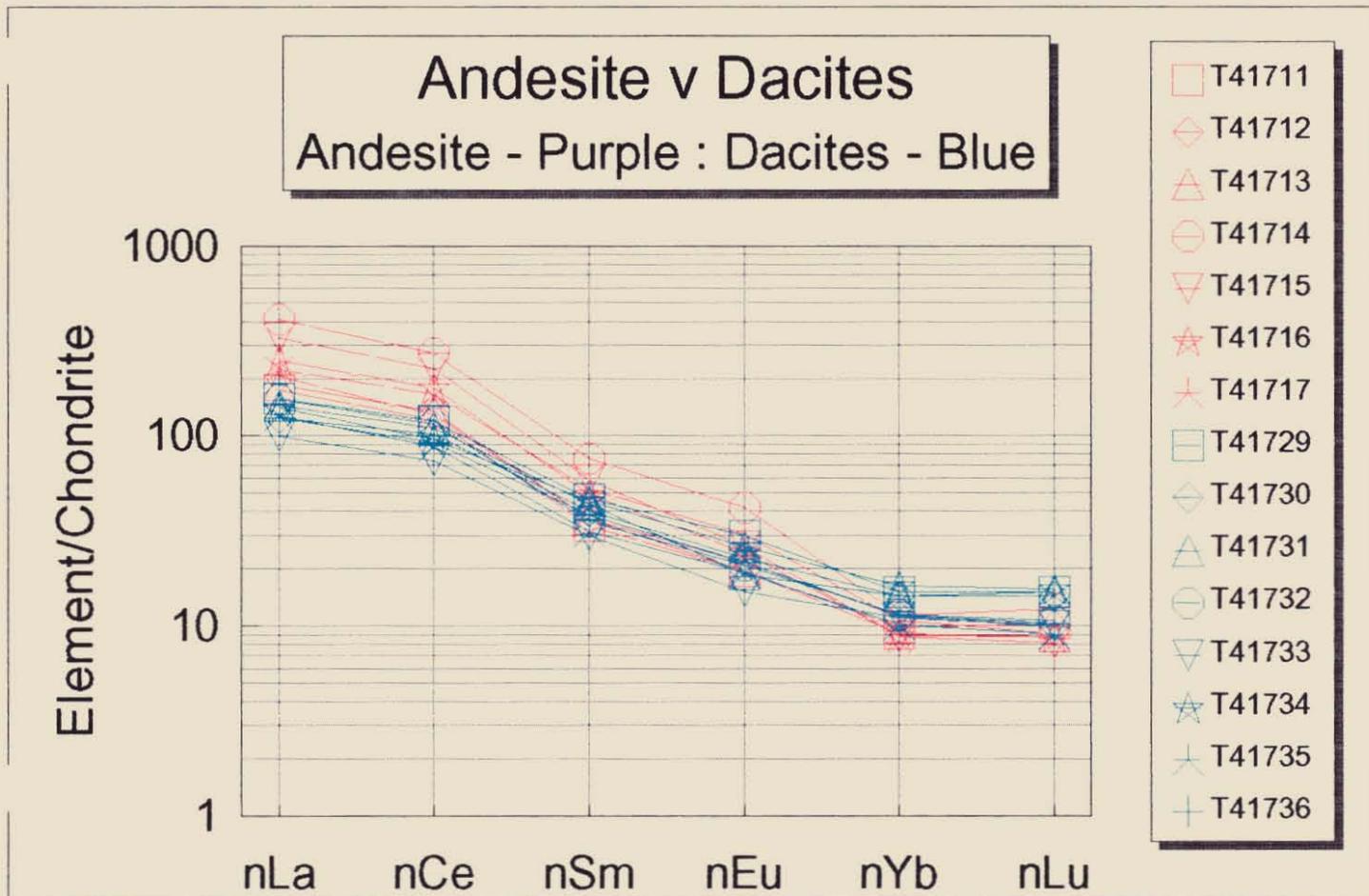
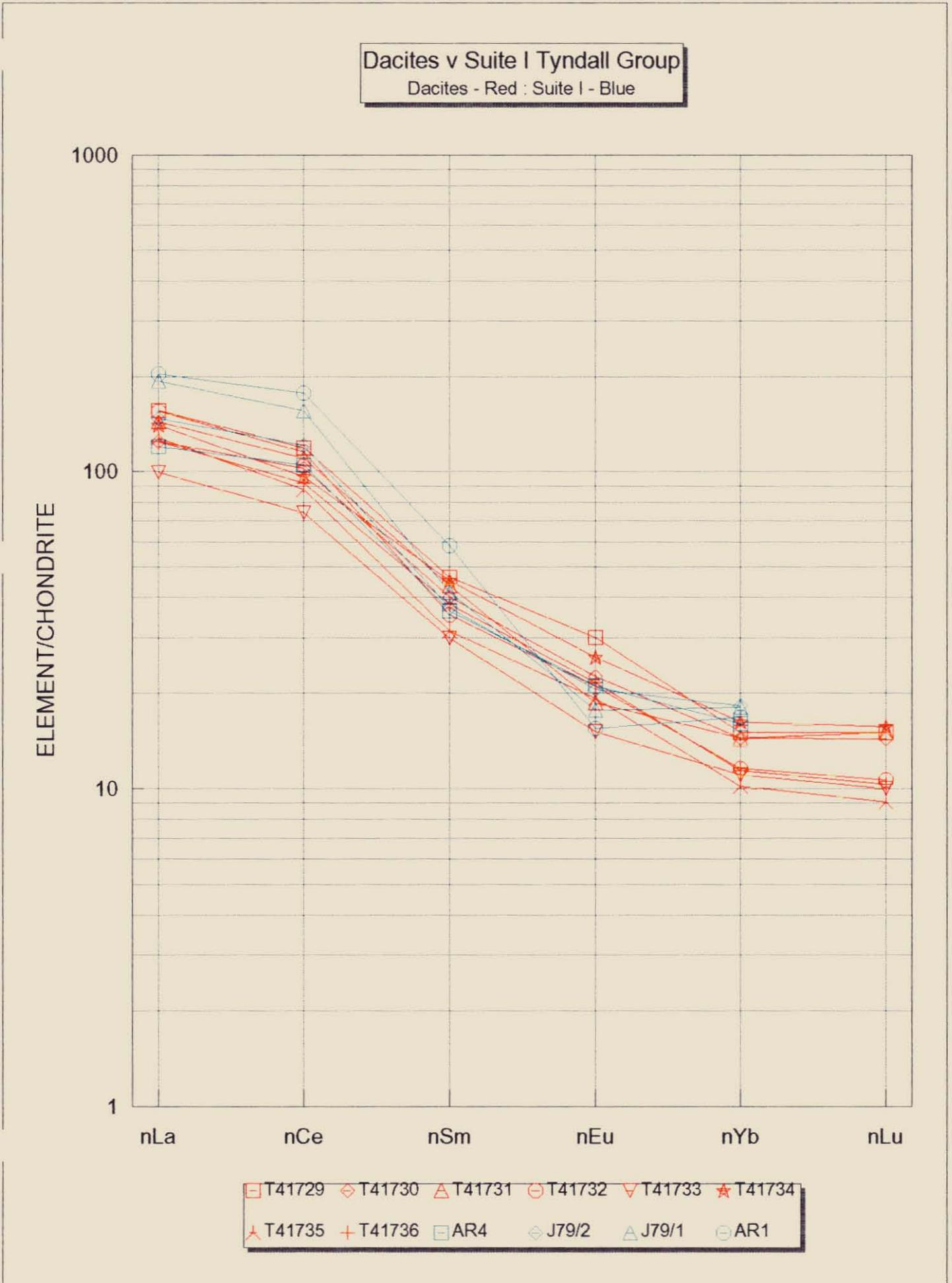


FIGURE 5

Basin Lake - Lithochemistry.

Correlation between Dacite and Suite I - Tyndall Group.

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5.2.4 Sulphur Isotopes

One sample of the barite float found near Tyndall Creek (Grid Reference 381195 mE, 5356557 mN)) was submitted for isotope analysis at the University of Tasmania. Sample T36723/3543 returned a value of $\delta S_{CDT} = +27.21\text{‰}$.

This value is much lighter than barites from Cambrian exhalative massive sulphide deposits (ie. Rosebery, Hercules, and Mt Charter) which typically have values of $>30\text{‰}$, and are thought to reflect the partial reduction of Cambrian sea water sulphate under equilibrium conditions (Solomon et al, 1988).

Solomon et al (op cit), also report that several other deposits in the Mount Read Volcanics (ie. Mt Lyell, Lake Jukes, Taylors Reward and Madam Howards) have barite that have values $<30\text{‰}$. At North Lyell the barite is associated with hematite and replaces the Owen Conglomerate close to the Great Lyell fault. These "lighter" barites are believed to have been derived from relatively oxidising fluids, possibly under non-equilibrium conditions.

Barite from a diamond drill hole at Howards Anomaly (HA004) has a value of $+33\text{‰}$. This value is similar to those from the Cambrian VHMS deposits and reflects the exhalative nature of the Howards Anomaly - Basin Lake system. Sample T36723 is isotopically lighter than the barite from HA004 and reflects deposition from a phase of oxidised fluids possibly associated with a period of later activity along the Great Lyell Fault. Several barite veins have been reported from units stratigraphically higher than Howards Anomaly horizon in drill hole TYN006 and 007. These veins are found within rocks correlated with the Comstock Tuff and also support a phase of hydrothermal activity after the main exhalative period.

5.3.1 Self Potential Survey

A brief reconnaissance SP survey was performed by RGC geophysicists Steve Mudge and Sam Roberts in December 1994 in the vicinity of drill hole BL001. The survey consisted of three E-W lines positioned 400 m apart and detected a SP anomaly within Tyndall Group rocks.

To further test this anomaly a grid was established over the region and a follow-up survey performed in December 1994. Technical reports and a plan of the grid are included in Appendix 7. The results confirmed the presence of the anomaly, however the results were inconclusive. Near surface water saturated glacial till may explain the anomaly.

5.3.2 Helimag Survey

A Helimag Survey was flown over the Basin Lake EL in early 1995. The main aim of the survey was to gain a better understanding of the subglacial geology.

The plan of Total Magnetic Intensity (TMI) (Plan 6) shows the highly magnetic character of the Andesite and Tyndall Group. The siliciclastic conglomerates to the east of the Great Lyell Fault are relatively unmagnetic and the contrast produces a strong regional gradient across the EL. There is insufficient magnetic contrast between the Andesite and the Tyndall Group to confidently predict subglacial geology from this data. In the south of the EL (near TYN010 and BL001) both the Andesite and the Tyndall Group change in magnetic intensity. This may reflect a period of late stage magnetite destructive alteration. To the south of the cross fault near Hamilton Moraine there is a further change in magnetic intensity and texture. The geology of this area is unknown, however it is unlikely that Tyndall Group rocks are present.

In contrast to the TMI, an image of the Second Horizontal Derivative (Plan 7) can be used to define the subglacial geology. In the north of the EL where the geology is well known there is excellent correlation between the Second Horizontal Derivative Function and the Andesite, Lower Tyndall Group and Comstock Tuff. Both the Andesite and the Comstock Tuff have a positive (red) signature while the Lower Tyndall Group is negative (blue). To the south of this area there is reasonable correlation between the Andesite - Tyndall Group contact and the change in the Second Horizontal Derivative Function and several lateral offsets are clearly evident.

A technical report outlining the details of the Helimag survey is given in Appendix 8.

5.3.3 Down Hole EM Survey

Drill holes TYN009, TYN010, TYN011, and TYN012 were surveyed by Outer-Rim Exploration Services using a Crone Pulse EM system. There were no off hole anomalies reported. The results are presented in Appendix 9.

Hole TYN008 was found to be blocked at 30 m depth and consequently was not surveyed.

6. DISCUSSION and RECOMMENDATIONS

The recent drilling program within the Basin Lake EL concludes the first phase of exploration. The results have highlighted the Anthony Road Andesite - Tyndall Group contact as an exhalative horizon and several drill holes have targeted the intersection of this contact with the Great Lyell Fault, an active Cambrian mineralising structure.

The geology of the Basin Lake EL is shown on Plan 5. The Tyndall Group consists of a three-fold stratigraphy:-

- A) Upper Tyndall Group - Epicalstic conglomerate, sandstone and siltstone,
- B) Comstock Tuff - Interbedded crystal rich rhyolitic volcanoclastic sandstones with a characteristic chert bearing mass flow horizon at base,
- C) Lower Tyndall Group - A complex sequence of interbedded feldspar±quartz phyric dacitic to rhyolitic volcanoclastic sediments, andesitic volcanoclastic sediments, rhyolitic and dacitic lavas, massive carbonates and rare rhyolitic ignimbrites.

The Comstock Tuff and the Upper Tyndall Group only outcrop in a north plunging syncline in the far north of the EL. To the south of this area the EL is covered by extensive Pleistocene glacial deposits commonly 20 - 30 m thick. Sub-glacial diamond drilling has shown that most of this area is underlain by Lower Tyndall Group rocks with the contact with the underlying Anthony Road Andesite trending sub parallel to the western boundary of the EL. A major west dipping fault, the Great Lyell Fault, meridionally transects the EL. To the east of the fault there is a thick sequence of Late Cambrian - Ordovician siliciclastics, the Owen Conglomerate.

The stratigraphy of the Tyndall Group as determined from the drilling program is shown on Plan 8. Near drill holes TYN006 and TYN007, the Lower Tyndall Group has a true stratigraphic thickness of between 150 and 200 m, and consists of the following units:-

Lower Tyndall Group Stratigraphy Near TYN006 and TYN007

- a) Chloritic volcanoclastic sandstone and conglomerate. (32m)
- b) Interbedded carbonate, ashy siltstone and rhyolitic ignimbrite (23m)
- c) Dacitic volcanoclastic sandstone and siltstone. Minor rhyolitic lavas (23m)
- d) Feldspar-quartz rich epiclastic sandstone (27m)
- e) Interbedded carbonate, andesitic volcanoclastics sandstone, black siltstone and feldspathic volcanoclastic sandstone (49m)
- f) Andesite lava and Breccia (Thickness unknown)(Anthony Road Andesite)

South of the Whitham Bluff Fault (Plan 5 and 8) the following stratigraphy has been established:-

Lower Tyndall Group Stratigraphy south of Whitham Bluff Fault

- a) Interbedded Dacite lavas and volcanoclastics (>356 m),
- b) Interbedded Rhyolite lavas and volcanoclastics (84 - >143 m),
- c) Basal andesite to rhyolite volcanoclastic sediment and lavas sequence with exhalative carbonate horizon (10 - >63 m),
- d) Anthony Road Andesite

Plan 8 shows the preferred correlation between the two Lower Tyndall Group sequences described above. There is an appreciable change in the Lower Tyndall Group thickness across the Whitham Bluff Fault. This is considered to represent the influences of synvolcanic faulting. The Helimag survey has detected the presence of four east - west cross faults to the south of the Whitham Bluff Fault. The influence of these faults during volcanism is speculative but rapid changes in facies and thickness within the basal unit of the Lower Tyndall Group between TYN010 and TYN011 may suggest that these faults were active Cambrian structures.

The target exhalative horizon has been intersected in five drill holes in the southern part of the Basin Lake EL. The table below summarises the results of the drilling program.

HOLE	TARGET HORIZON (m)	TRUE THICKNESS	COMMENTS
BL003	383.33-451?	>63 m	Only minor chl-hm-carb alteration
TYN011	261.15-282	20	Extensive pyrite alteration zone intersected from 282-444m (162m at 131 ppm Cu, 111 ppm Pb, 307 ppm Zn)
BL001	294.5-329.4	25	Minor base metal veining and pyrite alteration from 297.4-462.85m. Best intersections: 296.0-300.5m 4.5m at 0.14% Pb, 0.46% Zn and 4 g/t Ag. 303.5-308.0m 4.5m at 0.12% Pb, 0.44% Zn and 4 g/t Ag
TYN012	138.6-241.15	61	Massive carbonate interbedded with dacitic volcanoclastics from 195.5-211.85 m. 187-197 m assayed 10m at >5114 ppm Ba and 686 ppm Zn.
TYN010	130.4-143.8	10	Volcanoclastic sediments at the target horizon assayed >1000 ppm Ba from 130-133 m and 143-145 m.

TYN011 and BL001 both intersected a relatively large pyrite-sericite alteration zone near the target horizon and minor base metal veinlets were intersected in BL001. The massive carbonate zones and anomalous Ba intersected in TYN012, the high Ba intersected in hole TYN010 and possibly the chlorite-hematite-carbonate alteration intersected in BL003 may represent the distal parts of the TYN011 - BL001 system.

The stratigraphic interpretation presented in Plan 8 shows that the alteration zones intersected in TYN011 and BL001 extend well into the stratigraphic hanging wall (ie. into the upper parts of the Lower Tyndall Group). This relationship is hard to explain if the base of the Lower Tyndall Group is the exhalative horizon and would require a phase

of mineralisation that continues after the main exhalative period.

Recent relogging of core from the Howards Anomaly area has shown that there is a sequence of dacitic lavas, dacitic volcanoclastic sediments and rhyolitic intrusives that underlies the Anthony Road Andesite. An alternative stratigraphic correlation could be that the dacitic and rhyolitic sequence intersected in the holes near BL001 are footwall to the Anthony Road Andesite. The target exhalite horizon would then be the upper part of this sequence rather than at the base of the Lower Tyndall Group as previously suggested. It is hoped that this problem will be resolved in the future.

It is recommended that future exploration within the Basin Lake EL should be focused on the alteration zone intersected in holes BL001 and TYN011. This system needs to be intersected at depth by two to three deep (700 - 800 m) holes aimed at the intersection of the target horizon with the Great Lyell Fault. There is still scope for several shallower holes targeting the lateral continuations of the target horizon.

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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		pumice-clast-rich deposit, coarse, moderately porphyritic rhyolitic composition
	jigsaw-fit texture of coarse, moderately porphyritic rhyolite		pumice-clast-rich deposit, coarse, phenocryst-rich rhyolitic composition
	jigsaw-fit texture of coarse phenocryst-rich andesite		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)

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

ROCK TYPE

ALRO	Altered Rock	GRAN	Granite	QUIT	Quartzite
AREN	Arenite	POPH	Porphyry	SAND	Sandstone
AREN	Arenite, Labile			SCIS	Schist
ARLI	Arenite, Lithic	TRST	Tremstone	SESP	Seam-Reserve Sulphide
ARHS	Arkose			SERP	Serpentinite
		LANP	Lamprophyre	SHAL	Shale
ARCC	Arcecia	LIME	Limestone	SILT	Siltstone
ARPH	Polymict Arcecia	LSAC	Lithic siltstone	SISX	Siltstone with Shale
				SSTN	Slate
CRAB	Carbonate	ESGR	Essive Graphite	SLAF	Slice
CHRT	Chert	ESPY	Essive Pyrite	SSTR	Structural Measurement (alt. SID)
CLAY	Clay (unconsolidated)	ESSS	Essive Sulphide		
CONG	Conglomerate	KLIN	Kelange	TYLL	Glacial Till
CGPH	Polymict Conglomerate	KRST	Kudstone	TYLT	Tillite
CGSC	Siliciclastic Congl.	NYLN	Nylonite	TYLN	Tornidite
CLOS	Core Loss				
		ROCC	Ro core (precollet)	ULMP	Ultramafic
BOLE	Bolomite				
		PSSE	Pebbly Sandstone		
FALT	Fault				
FTRA	Fault Breccia				
FPSZ	Fault/Shear Zone				

Volcanic Rocks

			Examples	
E	Epilastic)		
L	Lava)		
P	Porphyry	) TYPE	TOYL	Andiff. Pelitic Lava & Volcaniclastic
VO	Volcanic (General)	)	VBC	Blocky Volcaniclastic
V	Volcaniclastic	)	VMAC	Coarse Matrix Volcaniclastic
			VDM	Sandy Basaltic Volcaniclastic
			VS	Silty Volcaniclastic
			VS	Shaley Volcaniclastic
			VS/	Andiff. Fine-grained Volcaniclastic
A	Andesitic	)	VKYL	Felsic Volcaniclastic & Epilastics
B	Basaltic	)	VLRN	Andesitic Volcaniclastic Breccia
D	Dacitic)		
FL	Felsic	) COMPOSITION		
MA	Mafic	)	VOQT	Quartz-Feldspar Phyric Volcanic
R	Rhyolitic	)	LRP	Feldspar-phyric Rhyolitic Lava
U	Ultramafic	)	POQ	Quartz-Feldspar Phyric Porphyry
X	Crystal-rich	)	YX/	Andiff. IL-rich Volcaniclastic
			YXQ	Quartz-Feld. Phyric IL-rich Volcaniclastic
Y	Feldspar Phyric	)	YXZ	Coarse IL-rich Andesitic Epilastic
QZ	Quartz-Feldspar Phyric	) CRYSTAL TYPE	YX	Sandy IL-rich Epilastic
Q	Quartz Phyric	)	YS	Silty IL-rich Epilastic
ZE	Blocky)		
BR	Breccia	)	YNA/	Andiff. Mafic Epilastics
C	Coarse	)	YX	Blocky Epilastics
R	Medium (Sandy)	) GRAIN SIZE	EC	Coarse Epilastics
F	Fine (Silty)	)	EDK	Sandy Basaltic Epilastics
S	Very fine (Shaley)	)	ES	Silty Epilastics
			ES	Shaly Basaltic Epilastics
/	Undifferentiated)		

323032

APPENDIX 2

Drill Log of TYN009

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

328033

HOLE NO: **TYN 009**
 STATE: **TAS.**

ULV. PRESS

PROJECT	BASIN LAKE	PURPOSE
DESIGNED BY	M. VICARY	To test a known exhalite horizon at the contact between the Anthony Road Andesites and Tyndall Group adjacent to the Great Lylell Fault.
LOGGED BY		
COMMENCED		
COMPLETED		

LOG SUMMARY	0-6.9 - 6.9m - 2.4m - 2.4m - rhyolite intrusion 6.9 - 4.6m - 4.6m - 4.6m - rhyolite intrusion 4.6 - 2.4m - 2.4m - 2.4m - rhyolite intrusion 2.4 - 1.4m - 1.4m - 1.4m - rhyolite intrusion 1.4 - 0.8m - 0.8m - 0.8m - rhyolite intrusion
GENERAL COMMENTS	

ASSAY SUMMARY

INTERVAL												COMMENTS
From	To											

LOCATION

NORTHING	5258651.49 S
EASTING	381153.03 E
R.L.	51215
GRID	
LENGTH	675m

HOLE CONDITION

SIZE	
Hole Size	Depth
HQ	0-15
NQ	15-475

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			INTERVAL		VERTICAL		HORIZONTAL		SURVEY			INTERVAL		VERTICAL		HORIZONTAL			
Depth	Bearing	Dip	From	To	Distance	D. Sin Dip	R.L.	D. Cos Dip	Prog. Total	Depth	Bearing	Dip	From	To	Distance	D. Sin Dip	R.L.	D. Cos Dip	Prog. Total
0	087.5	-34	0	15	15.0	7.5	51215	12.99	15.0	0	087.5	-34	0	15	15.0	7.5	51215	12.99	15.0
30	087.5	-34	15	45	30.0	15.0	51215	25.98	30.0	30	087.5	-34	15	45	30.0	15.0	51215	25.98	30.0
60	087.5	-34	45	75	45.0	22.5	51215	38.97	45.0	60	087.5	-34	45	75	45.0	22.5	51215	38.97	45.0
90	087	-32.8	75	105	30.0	15.0	51215	53.96	75.0	90	087	-32.8	75	105	30.0	15.0	51215	53.96	75.0
120	088	-31.3	105	135	30.0	15.0	51215	68.95	105.0	120	088	-31.3	105	135	30.0	15.0	51215	68.95	105.0
150	085	-40	135	165	30.0	15.0	51215	83.94	135.0	150	085	-40	135	165	30.0	15.0	51215	83.94	135.0
180	086	-47	165	195	30.0	15.0	51215	98.93	165.0	180	086	-47	165	195	30.0	15.0	51215	98.93	165.0
210										210									
240										240									
270										270									
300										300									
330										330									
360										360									
475	094	-25	465	475	10.0	5.0	51215	103.92	475.0	475	094	-25	465	475	10.0	5.0	51215	103.92	475.0

RGC EXPLORATION PTY LTD

323034

DRILL HOLE No TYN009 SUMMARY

- Bedding
- ⊥ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 1 OF 3

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	TUNDALL
DATE :	FEB-MARCH 1995
LOGGED BY :	MICHAEL VEARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.		ROCK	ALTERATION
0-10								0-6.9 Unconsolidated glacial Deposits	Qp	TILL
10-30								6.9-51.6 Qtz feldspar porphyry. Some brecciation.		LR<B
30-60	HQ NQ							51.6-69.71 F-M gr feldspar phytic dacitic volcaniclastic sandstone, minor conglomerates.		VOFM
60-100								69.71-108.55 Amygdaloidal feldspar phytic dacitic lava/breccia.		LDFB
100-130								108.55-133.4 Massive pink feldspar xll rich dacite lava		LDFX
130-147								133.4-147.9 Sparsely feldspar phytic dacite lava		LOF-
147-171								147.9-171.5 feldspathic ash volcanlastic sandstone		VDFM
171-183								171.5-183.8 clast supported volcanlastic Conglomerate		VDFC
183-260								183.8-265.7 Interbedded F-m gr feldspar phytic dacite volcanlastic sandstone and feldspar phytic dacite lava		VDFM+ LDF

REMARKS

5 cm

1:1000

RGC EXPLORATION PTY LTD

323035

DRILL HOLE No TYN009 SUMMARY

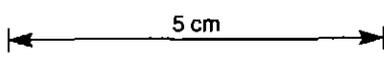
- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 2 OF 3

PROJECT	: BASIN LAKE EL 14193
PROSPECT	: TYNDALL
DATE	: FEB-MARCH 1995
LOGGED BY	: MICHAEL VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL	SER.	PT.		ROCK	ALTERATION
220								183-8-265-7		
230								Intrabedded f-m gr feldsparphyric dacitic volcanoclastic sandstone and feldspar phyric dacite lavas.		VDFM + LDF/
240										
250										
260										
270								265-70-274-90 Intrabedded ashy siltstone, dacite volcanoclastic sandstone + dacite lava		VDFM
280								274-90 Fault?		VD-A
290								274-90-281-10 ashy siltstone + dacite volcanoclastic sandstone		
300								281-10-319-90 Ashy dacite volcanoclastic siltstone.		VD-F
310										
320										
330								319-90-362-40 Chloritic feldspar phyric dacite- (andesite) lava		LDF-
340										
350										
360										
370								362-40-396-6 m gr feldspar-(quartz) phyric volcanoclastic sandstone		VDFM
380										
390										
400								396-6-402-6 feldspar phyric dacite lava		LDF-

REMARKS



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DRILL HOLE No TYN009

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊕ Breccia
- ▣ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 1 OF 24

PROJECT : BASIN LAKE EL 14/93
 PROSPECT : TUNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY			
					SIL	SER.	PT.	LABS	CHL	HEIN	Pink albite		EPID	LIM	FORMATION	ROCK	ALTERATION
1													0-6.9m Largely unconsolidated glacial deposits. Predominantly siliceous derived cobbles and boulders. minor sands. Poor recovery.			
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																

REMARKS: A = Pink Albite

1:100

5 cm

Qp3
TILL

LR<B
AO-5

RGC EXPLORATION PTY LTD

323030
 DRILL HOLE No TYN 009

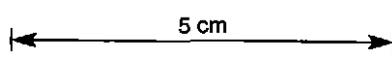
SHEET 3 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : BASIN LAKE EL 14/93
 PROSPECT : TUNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY		
					SIL	BER.	PT.	CHL	AN	ACT	EPID		FORMATION	ROCK	ALTERATION
41				▨ ▨ ▨											
42				"											
43				"											
44				"											
45				"											
46				"											
47				"											
48				"											
49				"											
50				"											
51				"											
52				▨ ▨ ▨											
53				▨ ▨ ▨											
54				▨ ▨ ▨											
55				▨ ▨ ▨											
56				▨ ▨ ▨											
57				▨ ▨ ▨											
58				▨ ▨ ▨											
59				▨ ▨ ▨											

REMARKS
 S₀ = Bedding
 C = Contact
 A = Albite



51.6-54.5 m
 f-m gr feld-qtz phytic volcanoclastic sandstone. Well sorted

54.5-55.0 ashly siltstone

55.0-58.9 chit carb altered feldspar phytic volcanoclastic sandstone (fine-med gr). Well sorted increasing proportion of pink carbonate 58.5-58.9 m.

58.9-61.0
 Carb chit altered f-m gr feldsp phytic vlc sst - commonly bedded

LR<B
 AQL5

VR<M
 ADC4

VDFM
 OCA5

50

50

60

RGC EXPLORATION PTY LTD

323040

DRILL HOLE No TYN009

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▒ Broken core
- ▒ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

SHEET 4 OF 24

PROJECT : Basin Lake EL14/93
 PROSPECT : TUNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

HOLE DEPTH	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn			SIL.	SER.	PT.	CHL	CHL	HEM		SO ₄	FORMATION	ROCK	ALTERATION
61													≈ 61.0 - 61.15 Qtz filled FAULT			
62													62.4-62.6 Alb altered feld phyrnc Amygdaloidal dacite clasts			
63																
64																
65																
66																
67																
68													67.2 - 68.5 m granite volcanoclastic conglomerate - feld (qtz) phyrnc & subangular dacite clasts			
69	21	172	209	492												
	22	181	258	292												
71	23	277	144	482												
	24	208	83	244												
72	26	108	205	637												
73	27	204	166	180												
74	28	149	87	128												
75																
76																
77																
78																

REMARKS A = Albite (A) = Amygdaloidal dacite lava clasts with diffuse margins
 E = Epidote Si = cleavage
 ↑ c c clast

60

70

80

60

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

SHEET 6 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ⊠ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

323042

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	TUNDALL
DATE :	FEB-MARCH 1995
LOGGED BY :	MICHAEL VICARY

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	CLAS.	CR.	HA/KA/ALB	LM/BRD		FORMATION	ROCK	ALTERATION
101				⊞								broken zone		
102				⊞								relatively massive amygdaloidal dacitic lava		
103				⊞								102-104m Amygdaloidal + kid phytic dacite breccia with jigsaw fit clasts		
104				⊞								106-108.4m		
105				⊞								slightly brecciated (diffuse clast boundaries) feldspar phytic dacite lava	LDFB	OCA 5
106				⊞										
107				⊞										
108				⊞								108.4-108.55 Qtz-carb vein (fault?)		
109				⊞								108.55 - 133.4		
110				⊞								massive pink feldspar rich dacite lava		
111				⊞										
112				⊞										
113				⊞										
114				⊞										
115				⊞										
116				⊞										
117				⊞										
118				⊞										
119				⊞										

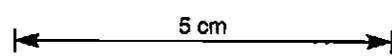
100

110

120

T41730

113.0 BS 16 145 +MAA
113.56



REMARKS A = Albite ⊞ = dacite lava clast with diffuse margins
 E = Epidote ⊙ = amygdale

RGC EXPLORATION PTY LTD

DRILL HOLE No T4N009

SHEET 7 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : BASIN LAKE EL 14193
 PROSPECT : TUNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

323043

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	PT.	CAEB	AN	HEM Pk Abik		AN/EPID	FORMATION	ROCK	ALTERATION
121				F										
122				FF										
123														
124				FF										
125				▨										
126			S ₁ 20	FF										
127														
128			S ₁ 40	F									LDF X	OCA S
129				FF										
131														
132				FF										
133			S ₁ 60	▨										
134				F										
135				F										
136	135.7 136.4	105 106	S ₁ 40	F									LDF -	OCA S
137				F										
138				F										
139				F									LDA	

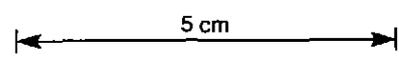
120

130

140

T41731

REMARKS
 A = Pink Abik
 S₁ = cleavage



feldspar phenos become more pinkish.

125.8 - 133.4 as above but well developed S₁.

133.6 - 138.6m relatively sparsely feldsp. phytic dacitic lava relatively massive, minor Amygdalites at top. feldspars are pinkish and often elongate with respect to S₁ at 0 to CA

138.6 - 141.3
 Aphyric dacitic lava

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 8 OF 24

PROJECT : Basin Lake EL 14/93
 PROSPECT : Tyndall
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

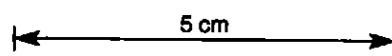
323044

(140)

(150)

(160)

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY			
					SIL	SER.	PT.	CHES	CHL	AN/PINK/WH/BLK	SP-D/LUM		FORMATION	ROCK	ALTERATION	
141				└										LDA		
142				└								141.3-142.2 Sparsely porphyritic dacite		LDF		
143				└								142.2-147.9 Predominantly Aphyric dacite with minor sparsely porphyritic dacite		LDA		OC-5
144				└												
145				▨												
146				└												
147				└												
148				└												
149				└								147.9-171.5 Predominantly chl-ser feldspathic ash volcaniclastic sandstone. Characterised by pink feldsp in cleaved chl-ser matrix. Poorly sorted Minor Qtz, Crst, chl, veining.				
150				└								151.1-151.9 abundant lithic clasts upto 1cm				
151				└												
152				└												
153				└												
154				└												
155				└												
156				└												
157				└												
158				└												
159				└												



REMARKS
 A = Pink Albite
 cll S₁ = lithological contact parallel to S₁

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN009

SHEET 9 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	TUNDALL
DATE :	FEB-MARCH 1995
LOGGED BY :	MICHAEL VICARY

323045

(160)

(170)

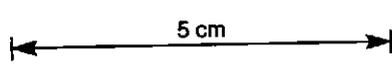
(180)

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY				
					SIL.	SER.	PY.	CHL	AN	ACT	EPID		FORM.	ROCK	ALTERATION		
161				●													
162				■													
163				■													
164				■													
165				■													
166				■													
167				■													
168				■													
169				■													
170				■													
171				■													
172				■													
173				■													
174				■													
175				■													
176				■													
177				■													
178				■													
179				■													

1696 Z > pyritic clasts up to 4cm (elongate)

171.5 - 183.8
 chl-(ser) altered clast supported
 dacitic volcanoclastic congl.
 clasts range from 0.5cm
 6cm in long dimension (subangular)
 clasts elongate WRT S₁ at
 ± 45° to c.h.
 No evidence of grading
 No pink K-feldspar

REMARKS * pyritic clasts
 A = Pink Albite



RGC EXPLORATION PTY LTD

DRILL HOLE No TUN009

SHEET 10 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

323046

PROJECT :	BASIN LAKE EL 16/93
PROSPECT :	TUNDALL
DATE :	FEB-MARCH 1995
LOGGED BY :	MICHAEL VICARY

(180)

(190)

(200)

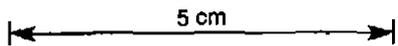
HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY					
				SIL.	SER.	PT.	CA/AB	CHL	SPIN	Pink Alb		SPIN	FORMATION	ROCK	ALTERATION		
181																	
182																	
183																	
184																	
185																	
186																	
187																	
188																	
189																	
190																	
191																	
192																	
193																	
194																	
195																	
196																	
197																	
198																	
199																	

183-8-184-15 ? Dacite Lava
 184-15 - 188-95. ser-chl altered pink feldspar phytic dacite volcanoclastic sandstone and matrix supported volcanoclastic conglomerate with Dacite clasts (subangular-sub rounded) up to 6cm diam. Matrix is mainly fine gr chl + ser and probably was once an ash. Similar to unit 147-9-171-5 Patchy Pink Albite A190 at base.

188-95-192-15
 Pink feldspar phytic rock - Dacite lava? Eld Hls 1-2mm floating in fine gr chl g/mass. Some Carb/dtz amygdales?

192-15 - 194-4 similar to unit 184-15-188-5 but less ser possibly graded - facing up Hole. Texture obliterated Pink Albite A3-2-194m. Quite xH1 rich at Top

194-4 - 202-85
 feldspar phytic Dacite lava



REMARKS c/s₁ = lithological contact parallel to S₁ A = Pink Albite
 C = contact
 (A) = amygdales

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

SHEET 13 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

323049

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	TYNDALL
DATE :	FEB-MARCH 1995
LOGGED BY :	MICHAEL VICARY

(240)

(250)

(260)

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY						
					SIL.	SER.	PT.	CLAYE	CHL	AMPHIB		EPID	SOIL	FOSSILIZATION	ROCK	ALTERATION		
240																		
242																		
243																		
244																		
245																		
246																		
247																		
248																		
249																		
250																		
251																		
252																		
253																		
254																		
255																		
256																		
257																		
258																		
259																		

239.5 - 245.0
amygdaloidal feldspar phyric
dacitic lava

245.0 - 246.6
Mg-r pink kldsp rich volcanoclastic ss +

246.6 - 248.15
kldsp phyric dacitic lava

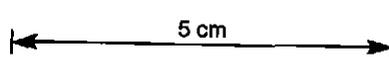
248.15 - 255.70
Predominantly chl altered
Mg-r kldsp rich ashly
volcanoclastic sandstone with
some zones of matrix supported
dacitic lava clasts.
Patchy pink albite alteration

Note 257.60 - 257.70
dacite clasts subrounded
- looks a bit like "epichstic"

LDFX
VDFM
LDFX
VDFM
VDFM

AO-5
OA-5
AO-5
OA-5

REMARKS * minor PBS in carbonate vein.
A = pink albite



RGC EXPLORATION PTY LTD

DRILL HOLE No TUN009

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

SHEET 14 OF 24

323050

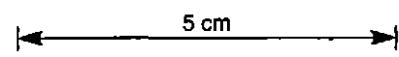
PROJECT	: BASIN LAKE EL 14/93
PROSPECT	: TUNDALL
DATE	: FEB-MARCH 1995
LOGGED BY	: MICHAEL VICARY

260

270

280

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY					
					SIL.	SER.	PT.	CHL	HEM/PLAK	ABD	EPID		FORAMIF.	ROCK	ALTERATION			
261																		
262																		
263																		
264																		
265																		
266																		
267																		
268																		
269																		
270																		
271																		
272																		
273																		
274																		
275																		
276																		
277																		
278																		
279																		
REMARKS		<p>A = Pink Albite F? = Possible fault</p> <p>C = Contact</p> <p>S₁ = cleavage</p>																



265-70-266-85 ashly dacitic volcanoclastic siltstone with matrix supported dacite clasts up to 6cm (elongate at 45° loca)

266-85-268-05
M gr pink feld bearing volcanoclastic sandstone

268-45-269-25
sparsely feldspar phytic dacite lens

269-25-270-65
1/8 fine dacitic volcanoclastic sst and ashly siltstone

270-65-274-90
M gr pink feld bearing volcanoclastic sandstone

274-05-274-90
Zone of intense Qtz-chl comb veining (Pink feldspar rare characteristic)

274-90-278-1
feldspar phytic volcanoclastic sst. Different alteration style to 270-65-274-90
Upper contact probably faulted.

278-1-279-35
ashy volcanoclastic siltstone

279-35-280-5
cherty volcanoclastic siltstone "blue ash"

FORAMIF.	ROCK	ALTERATION
	UDFM	QA-5
	VD-F	OS-4
	VD-FM	QA-4
	LD-F?	QA-4
	VD-V	QA-4
	VD-FM	QA-4
		D-5
	VD-FM	QA-5
	VD-F	OS-4
		QA-4

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

SHEET 15 OF 24

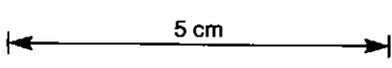
- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT : BASIN LAKE EL 14/93
 PROSPECT : TYNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

323051

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY			
					SIL.	SER.	PT.	CHL.	SO ₄	Fe/Mn/Al		Ep/Am	FORMATION	ROCK	ALTERATION
281												281.1 - 318.25 Predominantly chl-carbonate - minor sericite altered ashy volcanoclastic (basaltic) siltstone with minor pebble conglomerate zone from 283-284 m.			
282															
283															
284															OSC5
285															
286															
287															
288															
289															
290															
291															
292															
293															
294															
295															
296															
297															
298															
299															

REMARKS
 c = contact
 si = cleavage



280

290

300

VD-F

OC5

OSC5

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN009

SHEET 16 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↖ Narrow vein
- * Visible gold

323052

PROJECT	: BASIN LAKE EL 14/93
PROSPECT	: TUNDALL
DATE	: FEB MARCH 1995
LOGGED BY	: MICHAEL VICARY

(300)

(310)

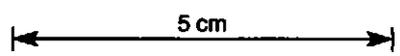
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HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
					SIL	SER.	PT.	CHES	CHL	High Pink Albite Low Epid		DESCRIPTION	ROCK	ALTERATION
301														
302														
303														
304														
305														
306														
307														
308														
309														
310														
311														
312														
313														
314														
315														
316														
317														
318														
319														
320														

Progressive
increase
of sericite

318.25 - 319.90
f-m or f-fs bearing
volcaniclastic sandstone

REMARKS
S = cleavage
A = pink Albite



VDFF

OC-5

SDC4

VDFF

OSA4

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN009

SHEET 17 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

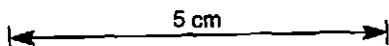
323053

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	TUNDALL
DATE :	FEB-MARCH 1995
LOGGED BY :	MICHAEL VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY		
		Co	Pb	Zn			SIL.	SER.	PY.	CHES	CHL	Am / Pink Albite	Lum / EPID.		FORMATION	ROCK	ALTERATION
321																	
322																	
323																	
324																	
325																	
326																	
327																	
328																	
329																	
330																	
331																	
332																	
333																	
334																	
335																	
336																	
337																	
338																	
339																	
340																	
REMARKS		A = Pink Albite															

319.90 - 362.40
 massive chloritic altered
 kalspar phytic ductile-undulate
 lava. Sparse amygdaloidal
 textures. Carbonate microcrystalline
 common, often with minor pyrite.
 Weakly developed patchy pink albite
 alteration.

LDF - OC-5



RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

SHEET 18 OF 24

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

323054

PROJECT : Basin Lake EL14/93
 PROSPECT : TYNDALL
 DATE : FEB - MARCH 1995
 LOGGED BY : MICHAEL VICARY

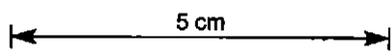
HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION				GEOLOGY NOTES	SUMMARY			
				SH	CL	FL	FA	FR	SIL	SEP	PT	CHL	CHL		Line	END	Formation	ROCK	ALTERATION
341																		
342																		
343																		
344																		
345																		
346																		
347																		
348																		
349																		
350																		
351																		
352																		
353																		
354																		
355																		
356																		
357																		
358																		
359																		

340

350

360

REMARKS



UDF-OC-5
 OC-5
 OC-5

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

SHEET 19 OF 24

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

323055

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	TUNDALL
DATE :	FEB - MARCH 1995
LOGGED BY :	MICHAEL VICARY

(360)

(370)

(380)

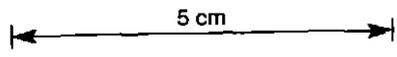
HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY					
					SIL	SER	PHY	CHL	CPH	Other		FORMATION	ROCK	ALTERATION			
361				F													
362				└													
363				└													
364				└													
365				└													
366				└													
367				└													
368				└													
369				└													
371				└													
372				└													
373				└													
374				└													
375				└													
376				└													
377				└													
378				└													
379				└													

362-40 - 396-6
Mqr keldspar - (quartz) phytic
volcaniclastic sandstone.

LDF-
OC-5

VDFM
SOC 4

REMARKS



RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

SHEET 20 OF 24

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

323056

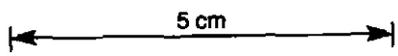
PROJECT : Basin Lake EL 14/93
 PROSPECT : TUNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

(380)

(390)

(400)

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY					
					SIL.	SER.	PT.	CLB	CEL	Am/An/Alk		Epd	Alteration	ROCK	ALTERATION		
381																	
382																	
383																	
384			C	▨							382.6-384.15 ashy bearing granulo-pebble volcanoclastic cong.						
385																	
386																	
387																	
388																	
389																	
390			C	▨													
391																	
392																	
393																	
394																	
395			C	▨													
396																	
397											396.6-402.6 Eldspar phyric dacitic lava some breccia forming carbonate veining.						
398																	
399																	
REMARKS		c/s = lithological contact parallel to S1															
		C = Contact															
		S1															



RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 21 OF 24

PROJECT : BASIN LAKE EL 14/93
 PROSPECT : TYNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

323057

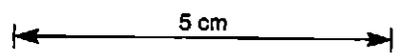
400

410

420

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY					
					SIL	SER.	PT.	CLAS	CHL	HE/BRK	ABIC		AM/EPIC	FORMATION	ROCK	ALTERATION		
401				┌														
402				┌														
403				┌														
404				▨									402.6 - 415.25 Mgy feldspar phiric volcaniclastic ss+ dark clasts - similar to unit at 362.42-396.6		LDF-	OC-5		
405				┌														
406				┌														
407				┌														
408				┌														
409			R/S	┌														
410				┌														
411				┌														
412				┌														
413				┌														
414				┌														
415				┌														
416				┌									415.25 - 430.0 massive feldspar phiric - dacitic lava. sparse amygdalites of carbonate feldspar xtls 1-2mm, commonly pinkish.		LDF-	OC-5		
417				┌														
418				┌														
419				┌														

REMARKS



RGC EXPLORATION PTY LTD

DRILL HOLE NO TYN009

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

SHEET 22 OF 24

PROJECT : BASIN LAKE EL 14/93
 PROSPECT : TUNDALL
 DATE : FEB - MARCH 1995
 LOGGED BY : MICHAEL VICARY

* Visible gold
323058

620

630

640

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG										ALTERATION	GEOLOGY NOTES	SUMMARY			
				SIL	SER.	PT.	CHL	OPAL	HA	SO ₄	CO ₃	Fe	Al			SiO ₂	FORMATIONS	ROCK	ALTERATION
421																			
422																			
423																			
424																			
425																			
426																			
427																			
428																			
429																			
430																			
431																			
432																			
433																			
434																			
435																			
436																			
437																			
438																			
439																			

430.0 - 444.05
 F-m gv feldspar bearing
 volcaniclastic sandstone

LOF -
 OC - A

VDF
 SOL 4

REMARKS

5 cm

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN009

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 23 OF 24

PROJECT : BASIN LAKE EL 10/93
 PROSPECT : TYNDALL
 DATE : FEB-MARCH 1995
 LOGGED BY : MICHAEL VICARY

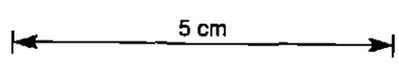
323059

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY						
					SIL.	SER.	PY.	CHL.	CaL	Albite		Prepation	ROCK	ALTERATION				
441																		
442																	VDFE	SOCL4
443																		
444																		
445																		
446																		
447																		
448																		
449																		
450																		
451																		
452																		
453																		
454																		
455																		
456																		
457																		
458																		
459																		

444.05 - 464.0
 sericite mgr feldspar phytic
 volcaniclastic sandstone

452.07 - 455.6
 Zone of intense silification

REMARKS
 S = cleavage
 A = Albite



RGC EXPLORATION PTY LTD

DRILL HOLE No TUN009

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↖ Narrow vein
- * Visible gold

SHEET 24 OF 24

PROJECT	: <u>BASIN LAKE EL14/93</u>
PROSPECT	: <u>TYNDALL</u>
DATE	: <u>FEB-MARCH 1995</u>
LOGGED BY	: <u>MICHAEL VICTRY</u>

323060

460

470

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY						
					SIL	SER.	FX	CHG	CHL	HT		PK	AL	PH	EPID	FORMATION	ROCK	ALTERATION
461																		
462																		
463																		
464																		
465																		
466																		
467																		
468																		
469																		
470																		
471																		
472																		
473																		
474																		
475																		

464.0-468.35
F-m gr feldspar phyre volcaniclastic
sst. or cleaved

468.35-469.6 strongly cleaved feldspar
phyric volcaniclastic sst (m gr)

469.6-469.8 GREAT LYELL FAULT

469.8-472.4 interbedded grey
F-m gr Qtz sst. and granite-
pebble grade siliceous conglomerate.
Minor hematization of clasts.
Limonite on joint surfaces

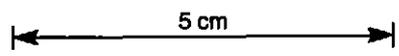
472.4-772.8 grey pebble conglomerate

472.8-475 (EOH) Hematitic pink
siliceous pebble conglomerate

Si 70
Broken
core
Si 65

EOH = 475m

REMARKS H = Hematite Si = cleavage
C = Contact
L = Limonite



323061

APPENDIX 3

Drill Log of TYN010

323062

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	TYN010	DRILLED BY	D. D. TAS.
PROJECT	BASIN LAKE	NORTHING	5351947
PROSPECT	TYNDALL	EASTING	380810
DESIGNED BY	SH + MV	RL	612
LOGGED BY	SH	INCLINATION	-65
COMMENCED		AZIMUTH	090
FINISHED		EOH	217.3 m

PURPOSE

To test for massive sulphide mineralisation at the Tyndall Group - Anthony Road Andesite contact adjacent to the Great Lyell fault.

SURVEY DATA

DEPTH	INC.	AZL	DEPTH	INC.	AZL	DEPTH	INC.	AZL
0	-65	090	210	-56.2	091.5			
30	-64	092						
60	-65	094						
90	-65	091						
120	-65.5	094						
150	-64	094						
180	-58	098						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS

323063

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010 (summary)

SHEET 1 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT	: BASIN LAKE EL 11/93
PROSPECT	: TUNDALL
DATE	: MAY 1995
LOGGED BY	: S. W. H.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.		ROCK	ALTERATION
10				1 16 1 4 16 32				0-44.3 UNCONSOLIDATED BOULDERY GLACIAL DEPOSITS, SANDS + MUDS	Qpg	TILL
20										
30										
40										
50				^ ^				44.3-130.4		
60				^				HORNBLEND-FELDSPAR PHYRIC ANDOSITE		
70				^ ^						
80				^ ^						
90				^ ^					Ea	LAH
100				^ ^						
110				^ ^						
120				^						
130				-A-A-				130.4-133.5 SILTY ANDOSITIC VOLCANICLASTIC	Eav	VAE-
140				▣ ▣ ▣				133.5-143.8 RHYOLITIC VOLCANICLASTIC SEDIMENTS	ETS	VR>M
150				▨ ▨ ▨				143.8-217.3 (EOH)		
160				-A-				QUARTZ-FELDSPAR PHYRIC RHYOLITIC LAVA		
170				-A-				WITH MINOR INTERBEDDED ANDOSITIC VOLCANICLASTIC SEDIMENTS	ETI	LRQ
180				▨ ▨ ▨						
190				▨ ▨ ▨						
200				▨ ▨ ▨						

REMARKS

323064

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN010 Summary

SHEET 2 OF 2

- Bedding
- ┌ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊖ Breccia
- ⊗ Broken core
- ⊘ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: BASIN LAKE BL 14/93
PROSPECT	: TYNDALL
DATE	: May 1995
LOGGED BY	: S.W.H.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY												
					SIL.	SER.	PY.		ROCK	ALTERATION											
200				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 16%;">1</td> <td style="width: 16%;">1</td> <td style="width: 16%;">1</td> <td style="width: 16%;">4</td> <td style="width: 16%;">16</td> <td style="width: 16%;">32</td> </tr> <tr> <td style="text-align: center;">/</td> </tr> </table>	1	1	1	4	16	32	/	/	/	/	/	/				GT	LRQ
1	1	1	4	16	32																
/	/	/	/	/	/																
210																					
220				EOH = 217.3																	

REMARKS

323065

RGC EXPLORATION PTY LTD

DRILL HOLE No TYNO10

SHEET 1 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ⋯ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	SPENCER
PROSPECT :	TYNOL
DATE :	MAY 1985
LOGGED BY :	S.W.H

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG										ALTERATION	GEOLOGY NOTES	SUMMARY		
				1/16	1/4	1/2	3/4	1	2	4	8	16	32			SIL	SER.	PY.	ROCK	ALTERATION
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		

0-31.7
 Slaty, greyish to pink
 medium to coarse grained
 calcareous shales. Approximately
 5% calcareous volcanic clasts
 (mostly andesitic fragments)
 High level of calc loss
 in the upper 10m of core
 28-31.7m

TILL

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 2 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	TYNDALL
DATE :	11/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION			GEOLOGY NOTES	SUMMARY		
				1 16	1 4	1 4	1 16	1 32	SIL	SER	PY	ROCK		ALTERATION		
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
32																
33													CL 7-40 0			
34													glacial deposits with braided mud matrix			
35																
36																
37																
38																
39																

REMARKS

TILL

323067

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 3 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊞ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: TAS BASE METALS
PROSPECT	: TYNDALL
DATE	: 11/5/95
LOGGED BY	: SWH

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
0				16 1 4 16 32						
30								10-15 m fines laminar clay massive hornblende andesite		TILL
45				▲ ▲				44-3-130.4 massive hornblende-feldspar- phyric andesite lava. In places it has a ghosted fragmental texture, probably an in situ hyaloclastite. Orange weathered to 47.6 m.		
50				▲ ▲				This unit is porous through out with open spaces in veins and along fractures. It looks as though carbonates (calcite) have been dissolved out of the rock through the whole unit.		LAH
55				▲ ▲						
60				▲ ▲						
65				▲ ▲						
70				▲ ▲						
75				▲ ▲						
80				▲ ▲						
85				▲ ▲						
90				▲ ▲						
95				▲ ▲						
100				▲ ▲						

REMARKS

323069

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 5 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⋯ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	TYNDALL
DATE :	12/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.			ROCK	ALTERATION
01				▲ ▲							
05			▨	▲ ▲							
08			▨	▲ ▲							
11				▲ ▲							
14				▲ ▲							
17				▲ ▲							
20				▲ ▲							
23				▲ ▲							
26				▲ ▲							
29				▲ ▲							
32				▲ ▲							
35				▲ ▲							
38				▲ ▲							
41				▲ ▲							
44				▲ ▲							
47				▲ ▲							
50				▲ ▲							
53				▲ ▲							
56				▲ ▲							
59				▲ ▲							
62				▲ ▲							
65				▲ ▲							
68				▲ ▲							
71				▲ ▲							
74				▲ ▲							
77				▲ ▲							
80				▲ ▲							
83				▲ ▲							
86				▲ ▲							
89				▲ ▲							
92				▲ ▲							
95				▲ ▲							
98				▲ ▲							
101				▲ ▲							

red jasper vein

puggy fault zones surrounded by broken ground.

REMARKS

323070

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 6 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ⊠ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	TYNDALL
DATE :	12/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION			GEOLOGY NOTES	SUMMARY		
				16	4	1	4	16	32	SIL	SER.	PY.		ROCK	ALTERATION	
101			▨	^												
102			▨	^										puggy fault		
103			▨	^												
104			▨	^												
105			▨	^												
106			▨	^												
107			▨	^												
108			▨	^												
109			▨	^												
110			▨	^												
111			▨	^												
112			▨	^												
113			▨	^												
114			▨	^												
115			▨	^												
116			▨	^												
117			▨	^												
118			▨	^												
119			▨	^									qtz-chlorite vein running along the core puggy fault			

REMARKS

323071

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 7 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⋯ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	TYNDALL
DATE :	12/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS			STRUCT.	GRAPHIC LOG						ALTERATION			GEOLOGY NOTES	SUMMARY	
		Cu	Pb	Zn		1/16	1/4	1	4	16	32	SIL.	SER.	PX.		ROCK	ALTERATION
121																	
122					500										puggy fault		
123																	
124															abundant open fractures (leached calcite?)		L AH
125	78	37	26	264													
126	79	93	72	378													
127	80	28	33	391													
128	81	35	7	318											veinlets of red jasper		
129	82	28	45	313													
130	83*	63	11	289													
131	84*	80	86	245											130.4 - 133.5		
132	85*	101	45	421											silty andesitic volcaniclastic, massive, unbedded		V AF
133	86	20	45	336													
134	87	35	45	299											133.5 - 143.7		
135	88	118	18	375											rhyolitic quartz-phenic volcaniclastic		
136	89	84	45	375											distinctive coarse quartz phenocrysts		
137	90	117	16	315													
138	91	16	13	192											'ghosted' clasts		V RM
139	92	7	45	218													

REMARKS * Assay \bar{c} > 1000 ppm Ba

323072

RGC EXPLORATION PTY LTD

DRILL HOLE No TYH 010

SHEET 8 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	TYNDALL
DATE :	12/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE No PREFIX T388	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
		Cu	Pb	Zn			SIL	SER	PY		ROCK	ALTERATION
141	93	49	45	245	55 S ₁					S ₁ 40° CA HQ ↓ 143-9 ↓ NO EOH.	VRM	
142	94	52	45	339								
143	95	33	11	251								
144	96*	80	19	155								
145	97*	82	20	208	10 S ₁					143-2 - 149.6 rhyolite lava breccia quartz-feldspar phyric has a vague fragmental texture, with heterogeneous chlorite sericite alteration. moderately foliated 149.6 - 150.2 andesitic volcanoclastic 150.2 - 151.4 rhyolite lava 151.4 - 153 andesitic volcanoclastic 153.0 - 161.9 rhyolite lava with very large quartz phenocrysts		
146												
147												
148												
149												
150												
151												
152												
153												
154												
155												
156												
157												
158												
159												

REMARKS * Assay > 1000 ppm Bg

323073

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 9 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	TYNDALL
DATE :	12/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.	ALBITE		ROCK	ALTERATION
161				161-162						L.R.Q.	
162				162-163					161.9-162.7 f.g. andesitic volcaniclastic	VAE	
163				163-164					162.7-217.3 quartz-feldspar phyric rhyolite lava, weakly sericitic, moderately foliated.		
164				164-165							
165			45/ S ₁	165-166					very distinctive large quartz phenocrysts generally pale green, some areas of pink-orange albite? alteration.		
166				166-167							
167				167-168							
168				168-169							
169				169-170							
170			45/ S ₁	170-171							
171				171-172							
172				172-173							
173				173-174							
174				174-175							
175			45/ S ₁	175-176							
176				176-177							
177				177-178							
178				178-179							
179				179							

REMARKS

323074

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 10 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▣ Broken core
- ◻ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	T/MALL
DATE :	12/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION			GEOLOGY NOTES	SUMMARY		
				1/16	1/4	1	4	16	32	SIL.	SER.	PY.		ROCK	ALTERATION	
181																
182																
183																
184																
185				50/S ₁												
186																
187																
188																
189																
190				50/S ₁									S ₁ CA 50°			
191																
192																
193																
194																
195																
196				50/S ₁												
197																
198																
199																

REMARKS

323075

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 010

SHEET 11 OF 11

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	
PROSPECT :	TYNDALL
DATE :	12/5/95
LOGGED BY :	SWH

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.	ALBITE		ROCK	ALTERATION
201				16 1 1 16 32							
202				16 1 1 16 32							
203				16 1 1 16 32							
204				16 1 1 16 32							
205				16 1 1 16 32							
206				16 1 1 16 32							
207				16 1 1 16 32							
208				16 1 1 16 32							
209				16 1 1 16 32							LIRQ
210				16 1 1 16 32							
211				16 1 1 16 32							
212				16 1 1 16 32							
213				16 1 1 16 32							
214				16 1 1 16 32							
215				16 1 1 16 32							
216				16 1 1 16 32							
217				16 1 1 16 32					217-3 EOH		

REMARKS

323076

APPENDIX 4

Drill Log of TYN011

323077

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	TYN011	DRILLED BY	D.D. TAS
PROJECT	BASIN LAKE	NORTHING	5353347
PROSPECT	TYNDALL	EASTING	381001
DESIGNED BY	MV+SH	RL	581
LOGGED BY	S.C	INCLINATION	-70
COMMENCED		AZIMUTH	078 (MAG)
FINISHED		EOH	482.9

090 m

PURPOSE

To Test for Massive Sulphide Mineralisation at the Tyndall Group - Anthony Road Andesite contact adjacent to the Great Lyell fault.

SURVEY DATA

DEPTH	INC.	AZL	DEPTH	INC.	AZL	DEPTH	INC.	AZL
0	-70	090	210	-71	090	420	-53.0	087
30	-70	090	240	-70	089	450	-52.0	088
60	-70	090	270	-69.5	090	480	-51.0	089.5
90	-70	090	300	-68.7	089	489.2	-50.8	090
120	-71	090	330	-67.2	087			
150	-72	090	360	-58.8	086			
180	-71	090	390	-54.0	084.5			

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS

RGC EXPLORATION PTY LTD

DRILL HOLE NO TYN011 (SUMMARY)

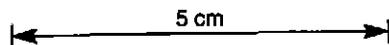
SHEET 1 OF 3

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ▨ Broken core
- ◻ Disseminated
- Massive
- ▩ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT	Basin Lake EL 14/93
PROSPECT	TYNDALL
DATE	JULY/AUGUST 1995
LOGGED BY	SUE CORLETT, MODIFIED MV

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	CARB.		ROCK	ALTERATION
0-10									0-46.5 Glacial Tills + Clays (unconsolidated)	QPG	TILL
10-46.5									46.5-115.3 Black-brown pyritic siltstone	Gas	SILT
115.3-117.0									115.3-117.0 Andesitic v/c sst ± Fault		LAF(H)
117.0-120.75									117.0-120.75 chl feldspathic Andesite Lava		FALT
120.75-133.5									120.75-133.5 sheared + strongly broken LAF(H) - FAULT		FALT
133.5-146.8									133.5-146.8 chl feldspathic Andesite Lava		LAF(H)
146.8-159.6									146.8-159.6 Predominantly highly broken + strongly chemosed feldspar phytic andesite lava - Fault	Gas	FALT
159.6-164.8									159.6-164.8 chl feldspathic Andesite Lava		LAF(H)
164.8-190.5									164.8-190.5 Mg-rich feldspar rich hematitic andesite lava		LAF(H)
175-175.8									175-175.8 Zone of intense carbonate		hm
190.5-261.15									190.5-261.15 chl-ep altered andesite lava + breccia		LAF(H)

REMARKS



1:1000

323079 RGC EXPLORATION PTY LTD

DRILL HOLE No TYND011 (SUMMARY)

SHEET 2 OF 3

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

PROJECT	BASIN LAKE EL 14/93
PROSPECT	TYNDALL
DATE	JULY - AUGUST 1995
LOGGED BY	SUE CORLETT, MODIFIED, MV

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
260										
261-15-282.0								M-C gr andesitic Volcaniclastic sandstone	Ca	LAFH Ca1 - cp18
282.0-282.45								Broken Puggy Zone - fault	Ca	VA-M Ca1 - cp18
282.45-292.5								f-m gr andesitic Volcaniclastic sandstone	Ca	VA-F Ca1
292.5-334.6								Qtz-kld phytic rhyolite	ET1	LR7-
334.6-390.8								M-F gr Qtz phytic rhyolitic Volcaniclastic sandstone	ETS	VR>M
390.8-391.7								FAULT	ET1	VR-F
391.7-395.2								f gr Volcaniclastic sst	ET1	IR28
395.2-400.3								Qtz-kld phytic rhyolite breccia		

REMARKS

323080

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

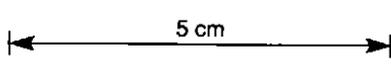
SHEET 3 OF 3

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	TYNDALL
DATE :	JULY-AUGUST 1995
LOGGED BY :	Sue Corlett, Modified MV

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
400						400.3-408.1 Fgr rhyolitic volcanoclastic	ETS	VR-F
440						408.1-432.5 Qtz-feld phytic Rhyolite lava		
470						432.5-438.2 Fgr rhyolitic volcanoclastic	ETS	VR-F
480						438.2-457.85 Qtz-feld phytic Rhyolite lava	GT1	LR-F
490						457.85-460.95 rhyolitic volcanoclastic		
500						460.95-462.15 Qtz-carbonatite vein	GB	
510						462.15-467.6 black pyritic siltstone	ETS	SILT
520						467.6-481.4 fine gr dacitic volcanoclastic sandstone	ETS	VD-F
530						481.4-482.7 FAULT		
540						482.7-489.2 (EOH) fine gr dacitic volcanoclastic	ETS	VD-F
550								

REMARKS



RGC EXPLORATION PTY LTD

DRILL HOLE No TYNDALL

SHEET 1 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE (14/93)</u>
PROSPECT	: <u>TYNDALL</u>
DATE	: <u>JULY/AUGUST 1995</u>
LOGGED BY	: <u>JUE CORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		FR.	ROCK	ALTERATION
0								<p><u>0m - 34.5m GLACIALS</u></p> <ul style="list-style-type: none"> • largely unconsolidated glacial conglomerate • dominant clasts are subclastic derived cobbles and boulders (approximately 80% Cambrian volcanic clasts) • hematitic sandy matrix • 730% core loss. 		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Op. 9
Glacial Till

REMARKS

323082

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 2 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ◻ Disseminated
- Massive
- ▩ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDALL</u>
DATE	:
LOGGED BY	: <u>J CORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION	GEOLOGY NOTES	SUMMARY				
				16	4	1	4	16	12			SIL.	SER.	PT.	For	ROCK	ALTERATION
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																

34.5 - 39.9 m
 • unconsolidated clays
 white to weakly
 limonitic
 • fine grained sand
 comprises <40%
 • approx. 30% recovery
 ? fault pug.

QP9
 Glacial Till

QP9
 Clays

REMARKS

323084

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 011

SHEET 4 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDALL</u>
DATE	:
LOGGED BY	: <u>SUE CORLETT</u>

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG										ALTERATION	GEOLOGY NOTES	SUMMARY	
				16	7	1	4	16	22	SIL.	SER.	PY.	ROCK			ALTERATION	
60																	
61			S ₁												black pyritic siltstone <1% pyrite RQD ~ 3%		
62			S ₀														
63			S ₁														
64			S ₀														
65			S ₀														
66			S ₀														
67			S ₀														
68			S ₀														
69			S ₀														
70			S ₀														
71			S ₀														
72			S ₀														
73			S ₀														
74			S ₀														
75			S ₀														
76			S ₀														
77			S ₁														
78			S ₀														
79			S ₀														
80			S ₀														

REMARKS

323085

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 5 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDALL</u>
DATE	:
LOGGED BY	: <u>JVE COXLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION	GEOLOGY NOTES	SUMMARY		
				1/16	1/4	1	4	16	32			SIL.	SER.	PY.	ROCK	ALTERATION
80			S ₁											
81			S ₁											
82			S ₁											
83			S ₁											
84			S ₁											
85			S ₀											
86			S ₀											
87			S ₀											
88			S ₀											
89			S ₀											
90			S ₀											
91			S ₀											
92			S ₀											
93			S ₀											
94			S ₀											
95			S ₀											
96			S ₀											
97			S ₀											
98			S ₀											
99			S ₀											
100			S ₀											

calcareous pyritic
black siltstone

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 6 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDALI</u>
DATE	:
LOGGED BY	: <u>SUE CORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.	CHLORITE	CHL.		ROCK	ALTERATION
100			So	16 1 4 16 32						• black pyritic silt stone (<1% disseminated pyrite, minor veins & 'blebs') • highly broken core		
101			So									
102			So									
103			So									
104			So									
105			So									
106			So									
107			So									
108			So									
109			Si									
110			So									
111			So									CTS
112			So									
113			So									
114			So									
115												
116				^					115.3-117.0 m		CA	
117				^					• finely consolidated andesitic clay; 2% pyrite • feldspar pyrite			
118				^					117.0-120.7 m		CA	
119				^					• feldspar pyrite, weakly chloridised andesite lava • 1% disseminated pyrite • broken core (R0.0-40%, Recovery-80%)			
120				^					• hornblende phenos ~ 2%			

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No TYNDALL

SHEET 7 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDALL</u>
DATE	:
LOGGED BY	: <u>SUE CORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION	GEOLOGY NOTES	SUMMARY				
				1	2	3	4	5	6			7	8	ROCK	ALTERATION	
120				^												
121				^												
122				^												
123				^												
124				^												
125				^												
126				^												
127				^												
128				^												
129				^												
130				^												
131				^												
132				^												
133				^												
134				^												
135				^												
136				^												
137				^												
138				^												
139				^												
140				^												

120.7 - 130.75
 - puggy green/grey andesite derived clay
 - moderate chloritisation, weak sericitisation
 (1-2% pyrite - disseminated & in veins)
 - poorly consolidated.

130.75 - 160.40
 - feldspar phyne andesite with 2-5% zoned hornblende phenocrysts (average 2mm diameter)
 - 2% siderite in blebs
 - broken core → dissolution of carbonate from veins and fractures
 - 1% pyrite veins and dissemination
 - epidote rims on carbonate veins

CA
 S2CB3 PY1
 CA
 S2CB2 PY1

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 8 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ◻ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDRALL</u>
DATE	:
LOGGED BY	: <u>SUE COXLETT</u>

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.	CHL.	CARB.		HEM/TIZ.	ROCK	ALTERATION
140				1 1 1 4 16 32						feldspar phytic andesite nearly chloritised & hematitic - broken ground surrounded by poorly relatively unconsolidated andesitic clay		
141				^								
142				^								
143				^								
144				^								
145				^								
146			▣	^								
147			~	^								
148			▣	^								
149			~	^								
150			~	^								
151			~	^								
152			~	^								
153			▣	^								
154			~	^								
155			~	^								
156			~	^								
157			▣	^								
158			~	^								
159			~	^								
160			▣	^								

CA
PY TR C2 HEM3

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No T/Y011

SHEET 9 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE
PROSPECT :	TINDALL
DATE :	
LOGGED BY :	SUE CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY			
					SIL.	SER.	PY.	CHL	CRS	HEM	EPIDOTE		ROCK	ALTERATION		
160																
161																
162																
163																
164																
165																
166																
167																
168																
169																
170																
171																
172																
173																
174																
175																
176																
177																
178																
179																
180																

REMARKS

164.8 - 165.3

165.3 - 175.0m

175.175.8 - hematitic
760% carbonate alteration

175.8 - 185.05

CA
H12

CA
H14, CB3

hornblende rich, feldspar
phyric andesite
- grey/green groundmass
- carbonate lepidote and
Kspar veins
- w/ hematitic alteration

• Kspar altered feldspar
phyric, hornblende rich
andesite
• pervasive carbonate - sanidine
veins and detrital
epidote veins
- hornblende remain unaltered

sharply hematitic feldspar
phyric andesite; carbonate
altered
- dissolution of carbonate
(limonite stained) has
resulted in rough, fractured
ground
- c. 1% finely disseminated
pyrite associated with
chlorite
- c. 1% calcite igneous inclusions

volcaniclastic sandstone:
feldspar and hornblende
crystal rich (c. 60%)
• coarse grained base,
medium grained tops
to graded bedding
• carbonate veins

RGC EXPLORATION PTY LTD

323090

DRILL HOLE No TYN011

SHEET 10 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↗ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNVALL</u>
DATE	:
LOGGED BY	: <u>SUE CORLETT</u>

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
				SIL.	SER.	PY.	HEM.	CHL.	EPIDOTE		ROCK	ALTERATION	
180													
181										hematitic, carbonate altered andesitic sandstone			
182										- feldspar and hornblende rich, sub rounded white clasts of sandstone			
183										- coarse to medium grained			
184										- trace pyrite			
185										indistinct contact			
186										<u>185.05 - 190.50m</u>			
187										- andesitic autobreccia (hyaloclastite) chloridised and weakly hematitic altered clasts in moderately fine grained matrix			
188										- no evidence of reinterbedding			
189													
190										- 11 epidote veins			
191										<u>190.5 - 196.9.</u>			
192										hornblende rich, feldspar phyric andesite (hornblende phenocrysts up to 1cm long)			
193										- carbonate + epidote - Sericite veins < 1%.			
194										- hematite + quartz veins < 1%.			
195													
196													
197										<u>196.9 - 198.2</u>			
198										70% epidote veins with hematitic rims, and associated clasts			
199										<u>198.2 - 208.2m</u>			
200										- auto brecciated, feldspar phyric andesite			
										- ? hyaloclastite →			
REMARKS													

323091

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 11 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ∇ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ⚡ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDALL</u>
DATE	:
LOGGED BY	: <u>JVE CORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY	
					SIL	SER.	PY	HEM	CHL	CB	EPIDOTE		ROCK	ALTERATION
200				16 4 1 4 16 32								'Jig saw ft' brecciation with curvilinear clast boundaries (sub angular) 1% quartz + sericite veins < 1% quartz + hem veins 1% epidote veins		
201														
202														
203														
204														
205														
206												206.2 - 217.5 m feldspar phyn. andesite lava 5% hornblende crystals in a fine grained matrix iron/permianite altered green/gray ground mass		
207														
208														
209														
210														
211														
212														
213														
214														
215														
216														
217														
218												217.5 m - 222.1 m - feldspar phyn. hornblende rich andesitic autobreccia (hyaloclastite); 1% sericite - epidote dilational veins		
219														
220														

REMARKS

323092

RGC EXPLORATION PTY LTD

DRILL HOLE No 77N011

SHEET 12 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE
PROSPECT :	TINDALL
DATE :	
LOGGED BY :	S. CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	PY.	HEM	CARB	CHL		EPIDOTE	ROCK	ALTERATION
220				1/16 1/4 1 4 16 32										
221				>							andesine hyaloclastite - moderately hematitic clasts.			
222				>										
223				>							222.1 - 242.3 m			
224				>							• feldspar pheno andesite			
225				>							• relatively coherent lava (2-5% hornblene phenocrysts)			
226				>							• 71% epidote veins with blurred boundaries with hematite alteration			
227				>										
228				>							- carbonatitic veins - epidote veins			
229				>							- epidote breccia / quartz veins			
230				>										
231				>										
232				>										
233				>										
234				>										
235				>										
236				>										
237				>										
238				>										
239				>										
240				>										

REMARKS

323095

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 15 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYNDALL</u>
DATE	:
LOGGED BY	: <u>S. CORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY				
		Cu	Pb	Zn			SIL.	SER.	PY.	CHL	CO	HEM		OXIDE	ROCK	ALTERATION		
280																		
282	17	195	576	653										282 2245 - unconsolidated pug.				
	18	223	466	686										282.45 - - fine to medium grained andesitic sandstone - quartz & feldspar phytic. - 2% pyrite, disseminated in clasts and matrix - weak carbonate alteration				
284	19	75	102	477										- brecciated "jigsaw fit" textures, carbonate matrix - breccia, angular clasts (hydrothermal?) - quartz pyrite rhyolite clasts - chert clasts with pyrite inclusions				
	21	37	53	152														
286	22	47	98	264														
	23	53	276	332														
288	24	60	120	276														
	25	47	109	334														
290	26	60	43	83														
	27	60	45	91														
292	28	56	74	129										292.5 - - angular chert clasts commonly with pyrite inclusions. - 2% carbonate veins - abundant quartz microcrystals				
	29	55	67	64														
294	30	54	53	60	40													
	31	50	57	77														
296	32	52	43	64										Hydrothermal breccia - maybe sedimented				
	33	51	44	73														
298	34	65	150	289														
	35	52	49	101	55													

REMARKS

(T37920 = STD BMTI)

323097

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 17 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	
LOGGED BY :	S. LORLETT

HOLE DEPTH	SAMPLE No PREFIX T379--	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn					ROCK	ALTERATION		
320	57	69	44	150	35°	[Graphic Log: Dashed lines, vertical lines, etc.]	moderately silica fied gray pyritic quartz pyritic chertite - quartz phenocrysts average 0.2-0.5cm - 5-10% disseminated fine grained pyrite - <1% chalcopyrite 320.0-328.2m - sparse but persistent quartz phenocrysts - 2.5% pyrite					
	58	51	41	75								
322	59	54	37	125								
	61	246	498	840								
324	62	51	70	95								
	63	51	51	176								
326	64	47	45	194								
	65	87	62	168								
328	66	44	141	1034								
	67	31	57	551								
330	68	20	57	47								
	69	44	138	964								
332	70	2972	154	92			- brecciated base - "jigsaw fit" clasts with curvilinear clast boundaries - hyaloclastite. indolent contact					
	71	494	78	73								
334	72	89	79	319			334.6 - - indolent contact - abundant quartz veins - andesitic fine grained sandstone, occasionally interbedded with siltty M500 - rare feldspar phenocrysts subrounded (andesitic) clasts - 2-5% pyrite, disseminated and in lenses - waxy goaded appearance					
	73	66	79	156								
336	74	61	52	128								
	75	47	79	73								
338	76	37	80	55								
	77	55	83	65								

REMARKS

(T37960 = STD BM T3)

* T37952	0.015 g/t Au	T37955	0.016 g/t Au
T37961	0.011 g/t Au	T37971	0.011 g/t Au

323098

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 18 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE
PROSPECT :	TYN011
DATE :	8/95
LOGGED BY :	S. ORLETT

HOLE DEPTH	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION		GEOLOGY NOTES	SUMMARY				
		Cu	Pb	Zn			SIL.	SER.		ROCK	ALTERATION			
340	78	45	59	49	51 65				graded beds - medium sandstone to siltstone - clastic composite siltstone and chert - 2-5% disseminated pyrite					
	79	42	73	78										
342	81	44	79	48										
	82	46	66	49										
344	83	59	73	57										
	84	46	67	39										
346	85	41	92	95										
	86	43	58	48										
348	87	42	53	42										
	88	47	66	44										
350	89	50	66	46										
	90	42	57	47	4 10									
352	91	71	88	53										
	92	59	85	50										
354	93	47	43	36										
	94	73	62	72										
356	95	40	69	58										
	96	49	67	110										
358	97	47	72	82										
	98	57	98	93										
360														

REMARKS (132980 = STD B.M.T.)

323099

RGC EXPLORATION PTY LTD

DRILL HOLE No TYNDALL 011

SHEET 19 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE
PROSPECT :	TYNDALL
DATE :	8/75
LOGGED BY :	S. CORLETT

HOLE DEPTH	SAMPLE No PREFIX T376...	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
		Cu	Pb	Zn					ROCK	ALTERATION
360	09	60	134	70						
352	10	60	124	110						
	11	88	73	206						
364	12	113	92	416						
	13	90	118	567						
366	14	65	100	84						
	15	44	44	114						
368	16	48	79	114						
	17	57	178	348						
370	18	53	104	652						
	19	307	401	1167						
372	21	83	198	1649						
	22	97	569	2934						
374	23	43	544	1829						
	24	41	116	145						
376	25	42	50	189						
	26	46	69	264						
378	27	56	127	1803						
	28	51	305	1410						
	28	57	331	903						

REMARKS (T38000 = STD BM 13)
(T37670 = STD BM 11)

323100

RGC EXPLORATION PTY LTD

DRILL HOLE No TYNDALL

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↖ Narrow vein
- * Visible gold

SHEET 20 OF 25

PROJECT : BASIN LAKE
 PROSPECT : TYNDALL
 DATE : 8/95
 LOGGED BY : S. CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
		Cu	Pb	Zn			SIL.	SER.	PY.		ROCK	ALTERATION
27.0	29	94	372	594								
	30	127	242	578								
27.3	31	68	1262	1758								
	32	67	260	2288								
27.4	33	111	1288	1770								
	34	117	448	1182								
27.6	35	282	113	253								
	36	714	31	66								
27.8	37	122	34	11								
	38	181	36	24								
27.9	39	106	124	44								
	41	100	222	82								
28.1	42	79	85	252								
	43	134	85	162								
28.4	44	404	57	567								
	45	164	120	565								
28.6	46	350	132	102								
	47	127	54	374								
28.7	48	124	79	247								
	49	193	103	403								

281.4 - fine grained volcaniclastic sandstone
 - fine grained pyrite lenses and coarse pyrite grains



382.9 →
 sil. pyrite, medium grained sandstone
 pseudo clastic textures
 composed by sulphide - sheet silicate deformation
 10% pyrite

386.4 m →
 sil. pyrite, neatly shaped medium grained sandstone
 10% pyrite

390.7 - 390.8
 quartz, carbonate, chloride and pyrite vein

390.8 - 391.7 m
 broken core, pluggy fault zone with 80% core loss

391.7 →
 fine grained silty sandstone - moderate silicification on < 8% pyrite on veins, 8% pyrite - rare quartz phenos
 10% sil. & disseminated

396.3 →
 quartz physis rhyolite hyaloclastite (monomict) - ? a sediment

REMARKS (T37640 = STD. BM T2)

323101

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 21 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TYN011</u>
DATE	: <u>8/95</u>
LOGGED BY	: <u>S. CORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX T376--	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY	
		Cu	Pb	Zn			SIL.	SER.	Py	Ch	SO ₄		ROCK	ALTERATION
400	50	382	35	487		1 16						400.3 - 408.1 medium grained volcaniclastic siltstone.		
	51	88	16	206		1 4						10% pyrite		
402	52	210	36	235		1 16 32						10-15% pyrite		
	53	135	19	311								clasts of black pyritic siltstone - some clasts appear to be replaced by pyrite		
404	54	218	17	146										
	55	160	16	122										
406	56	226	11	233										
	57	122	8	83								10-15% pyrite		
408	58	195	5	30								408.1 - 432.85m quartz pyrite rhyolite - coarsely disseminated pyrite + pyrite lenses		
	59	98	6	10								- large phenocrysts with average diameter 0.5cm		
410	61	65	45	44								- inhomogeneous silt/cl. coll.		
	62	34	5	44										
412	63	144	8	20								5-1% pyrite		
	64	99	10	92										
414	65	96	10	68										
	66	46	13	11										
416	67	296	18	47										
	68	85	18	140										
418	69	81	21	462										
	70	122	16	282										

REMARKS (T37660 = STD BM T3)

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN 011

SHEET 23 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: <u>BASIN LAKE</u>
PROSPECT	: <u>TINDALL</u>
DATE	: <u>14/8/95</u>
LOGGED BY	: <u>S. CORLETT</u>

HOLE DEPTH	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn			SIL.	SER.	PH.	OX.		CH.	ROCK	ALTERATION
440	692	54	34	118										
	693	60	25	138										
442	694	77	126	151										
	695	55	22	125										
444	696	10	<5	96										
	697	28	<5	91										
446	698	77	14	109										
	699	41	<5	102										
448	701	90	10	79										
	702	62	7	71										
450	703	41	<5	70										
	704	55	<5	81										
452	705	51	<5	65										
	706	55	<5	58										
454	707	52	<5	59										
	708	44	<5	65										
456	709	53	17	60										
	710	86	15	95										
458	711	95	60	68										
	712	34	21	54										

quartz phyn c chlorite
 rhyolite - quartz phenos
 average < 0.2cm
 - 1.9-chlorite veins
 - occasional pyrite lenses
 shale disseminated

457.85
 individual corded
 - polymict volcanoclastic
 quartz phyn c dark, 2700 mesh.
 silts with iron pyrite grains
 459.4 - 459.8 chlorite - quartz vein

REMARKS (T37700 = STD BM T2)

323104

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN011

SHEET 24 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT : <u>BASIN LAKE</u>
PROSPECT : <u>TYNOLL</u>
DATE : <u>14/8</u>
LOGGED BY : <u>SCORLETT</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY			
		Cu	Pb	Zn			SIL.	SER.	PI.	CHL.		ROCK	ALTERATION		
460	13	58	23	169								460.7 - 460.8 - quartz, carbonate, chert 468.0 - 460.95 - rhyolite ash sed 460.95 - 462.15 - quartz, carbonate and chert vns.			
462	14	39	116	74											
464	15	2165	622	536								462.1 - 467.6			
466	16	1694	382	438								fine grained laminated black pyritic shales			
468	17	2875	587	791											
470	18	66	98	124											
472	19	63	113	139											
474	21	76	55	87											
476	22	166	17	120								467.6 - 468.8 - quartz rich sediments: quartz eyes 5mm			
478	23	87	26	88								468.8 - 470.3 - quartz eyes compr 2.5-7.5mm - quartz porphyroblasts.			
480	24	144	17	110								ie. structural sense of rotation - pyrite aggregates			
482	25	95	7	87								are common in pressure shadows.			
484	26	45	8	77								470.3 - 470.6 - white and crystal rich with 60-80% polymict clasts (chert, sandstone) and coarse quartz eyes.			
486	27	85	31	76								- 2.1% py as imp.			
488	28	40	12	63											
490	29	43	11	64											
492	30	16	7	75											
494	31	86	6	111											
496	32	126	18	150											
498	33	105	7	140											

REMARKS (T37720 = STD AM T3)

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN011

SHEET 25 OF 25

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊠ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE
PROSPECT :	TUNDALL
DATE :	14/8
LOGGED BY :	S COLLETT

HOLE DEPTH	SAMPLE No	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY		
		Pb	Pb	Zn			SIL.	SER.	RY.	CHL	SO ₄		ALBITE	ROCK	ALTERATION
	PREFIX 1377	Cu	Pb	Zn											
180	34	102	6	155 g											
	35	62	36	177											
182	36	27	7	151 broken 70%											
	37	60	20	185											
184	38	33	6	213											
	39	64	19	193											
186	41	79	108	205											
	42	73	50	193 g											
188	43	121	30	147											
190															

- fine grained chloritised sandstone
 - moderate chloritisation
 - cross cutting carbonate and quartz veins.

EDH 489-2

REMARKS

APPENDIX 5

Drill Log of TYN012

323107

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	TYN012	DRILLED BY	D.D. TAS
PROJECT		NORTHING	(5352320)
PROSPECT		EASTING	(380917)
DESIGNED BY	SC + SH	RL	(616)
LOGGED BY	MV	INCLINATION	(67)
COMMENCED	21/8/95	AZIMUTH	(099)
FINISHED		EOH	361.3 m

PURPOSE

SURVEY DATA

DEPTH	INC.	AZL	DEPTH	INC.	AZL	DEPTH	INC.	AZL
0	(-67.0)	(099)	210	-64.0	099.5			
30 m	-67.0	099	240	-61.2	099			
60 m	-67.8	099	270	-61.0	0100			
90 m	-67.8	098	300	-55.9	099			
120 m	-66.5	097.5	330	-53.0	097.5			
150 m	-65.8	098	360	-51.2	101.0			
180 m	-64.9	098						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
PQ	0-20.7	
HQ	20.7-120.0	
NQ	120.0-EOH	

RGC EXPLORATION PTY LTD

DRILL HOLE NO TYNO12 (SUMMARY)

SHEET 1 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	BASIN LAKE EL 14/93
PROSPECT	TYNDAL
DATE	AUGUST - SEPTEMBER 1995
LOGGED BY	MICHAEL VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
10						0-25.5 Unconsolidated Glacial Deposits	Qfg	TILL
20								
30						25.5-34.5 Limonitic-hematitic highly weathered andesite lava.	LAF	HL-9
40						34.5-58.5 strongly weathered feldspar phytic andesite lava (intensely limonitic)	LAFX	L--B
50								
60						58.5-91.6 feldspar phytic stl rich andesite lava	LAFX	LO-6
70								
80								
90								
100						91.6-107.8 chloritic feldspar-(quartz) phytic stl rich andesite lava.	LAFX	OCAS
110								
120						107.8-138.6 chloritic feldspar phytic stl rich andesite lava + breccia.	LAFX	OC-5
130								
140								
150						138.6-143.2 dacitic volcanoclastic sediments.	VOFF	OS-5
160						143.2-148.6 Eld-qtz phytic dacite lava	HL	SO-5
170						148.6-164.15 interbedded f-m gr dacitic volcanoclastic sediments	VO-F	LO-5
180						164.15-185.7 hematitic dacitic - andesite lava breccia	ETT1	
190						185.7-188.0 dacitic volcanoclastic stl	LDEB	HOC6
200						188.0-189.0 dacitic lava	VOFF	SOAS
							LDP1	SO-5

REMARKS

END

RGC EXPLORATION PTY LTD

DRILL HOLE NO TUNO12 (SUMMARY)

SHEET 2 OF 2

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : <u>BASIN LAKE BZ 14) 93</u>
PROSPECT : <u>TUNDALL</u>
DATE : <u>AUGUST-SEPTEMBER 1995</u>
LOGGED BY : <u>MICHAEL VICARY</u>

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
210								<p>195.5-214.3 Interbedded dacitic lavas and massive carbonates - <u>Earhartite</u> horizon.</p>	Exnl.	LDF/ +CARB
220								<p>214.3-227.6 Dacitic volcaniclastic sandstone</p>	VDF	SONS
230								<p>227.6-238.9 hm-chl altered dacitic lava breccia.</p>	ETI	LOB
240								<p>238.9-241.15 Dacitic volcaniclastic sandstone</p>	VDF	SONS
250								<p>241.15-2346.0 Qtz-feldspar phyric rhyolite lava. Generally massive, with foliation defined by flattened albite phenocrysts. Includes some possible hyaloclastite breccias.</p>		SO-S
260									ETI	LR>
270										AGOS
280										AGOS
290										AGOS
300										AGOS
310										AGOS
320										AGOS
330										AGOS
340										AGOS
350										AGOS
360										AGOS
				E01 = 361.3m				<p>2346.0-261.3m Amygdaledal Qtz-feldspar phyric rhyolite lava.</p>		AGOS

REMARKS

323110

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN01Z

SHEET 1 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT :	BASIN LAKE EL14/93
PROSPECT :	TYNDALL
DATE :	AUGUST-SEPTEMBER 1995
LOGGED BY :	M VICARY

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION				GEOLOGY NOTES	SUMMARY	
				16	4	1	4	18	32	SIL.	SER.	PY.	CHL.		ROCK	ALTERATION
1														0.0 - 25.5 unconsolidated over derived boulder deposits - Glacial till (s. G derived clasts) Largest clust ≈ 1.1m 20% interstitial f-m gy sand. Recovery low.		
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

REMARKS

TILL

RGC EXPLORATION PTY LTD

323111

DRILL HOLE No 14N01Z

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 2 OF 19

PROJECT	: <u>BASIN LAKES LL 10190</u>
PROSPECT	: <u>TINDALL</u>
DATE	: <u>1.16.03</u>
LOGGED BY	: <u>[Signature]</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PH.	SO ₂	Carb	Line		ROCK	ALTERATION
20													
21													
22													
23													
24													
25													
26										25.5 - 232.0			
27										Highly weathered feldspar free phyric andesite lava. Some minor breccia alteration			
28													
29													
30													
31													
32													
33										32.0 - 34.5 Zone of core loss 5% Recovery - mainly Vetz E immediate and - fault??			
34													
35													
36										36.5 - 258.5			
37										Strongly weathered feldspar (humboldt) phyric andesite lava Intensely leucitic melt 5% Mn.Ox - Carb? coated joint = No. 34 - 36 - strongly leucitic			
38													
39													
40													
REMARKS													

207 PD HQ

Gpg TILL

LAF/ HL-2

Co

LOSS

LAF/ L-2-B

323112

RGC EXPLORATION PTY LTD

DRILL HOLE No TYND12

SHEET 3 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : Basin Lake EL 14/93
 PROSPECT : TYNDALL
 DATE : AUGUST - SEPTEMBER 1995
 LOGGED BY : M VICARY

HOLE DEPTH m	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	CL.	CO.	LOW		ROCK	ALTERATION
40				▲									
41													
42				▲									
43				▲									
44				▲									
45				▲									
46				▲									
47				▲									
48				▲									
49				▲									
50				▲								Ca	LAFX
51				▲									L--B
52				▲									
53				▲									
54				▲									
55				▲									
56				▲									
57				▲									
58				▲									
59				▲									
60				▲									
REMARKS													

323113

RGC EXPLORATION PTY LTD

DRILL HOLE No TUNO1Z

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 4 OF 19

PROJECT : <u>BASINLAKE EL 14193</u>
PROSPECT : <u>TUNDALL</u>
DATE : <u>AUGUST-SEPTEMBER 1995</u>
LOGGED BY : <u>M VICARY</u>

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG							ALTERATION					GEOLOGY NOTES	SUMMARY	
				1/16	1/4	1	4	16	32	SIL.	SER.	PT.	Chl	Carb	Lim		ROCK	ALTERATION
60																		
61				A												58.5 - 69.5 chl-lim feldspar (ferromag) phytic andesite lava. Generally xli rich. Still limonitic but slightly less weathered than above. leached veins present moderately strongly leached	LAFX	10-6
62				A														
63				A														
64				A														
65				A														
66			→ Limit of weathering	A														
67				A														
68				A														
69				A														
70				A												69.5 - 70.5 strongly leached chl andesite	Ca	
71				A														
72				A												70.5 - 82.1 Moderately chloritic feldspar phytic xli rich andesite lava. 5-10% Oxbow microveins	LAFX	DC-5
73				A														
74				A														
75				A														
76				A														
77				A														
78				A														
79				A														
80				A														
REMARKS																		

RGC EXPLORATION PTY LTD

DRILL HOLE No T4N012

SHEET 5 OF 19

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

PROJECT	BASIN LANE 02/11/93
PROSPECT	TUNDALL
DATE	AUG - SEPT 1995
LOGGED BY	M. VICARY

HOLE DEPTH m	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	PY.	Chl	Carb	Alb	Lim		ROCK	ALTERATION	
80				^											
81				^											
82				^											
83				^								82-1-83-8 Limonite-chlorite pyrite or hematite - fault zone			
84				^											
85				^								83-8-89-9 Moderately chloritic feldspar phyr. x 21 rich andesite lava s.l. Carb. microwevens			
86				^											
87				^											
88				^											
89				^											
90				^											
91				^								89-9-91-6 Moderately broken chl - w/ Lim. Andesite - fault?			
92				^											
93				^								91-6-95-0 Moderately chloritic feldspar phyr. x 21 rich andesite lava ll. Carb. microwevens (ll. Qtz phenos)			
94				^											
95				^											
96				^								95-0-107-8 Moderately chloritic feldspar phyr. x 21 rich andesite lava overprinted with albite alteration s.l. carb. microwevens ll. Qtz phenos			
97				^											
98				^											
99				^											
100				^											

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN012

SHEET 7 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⋯ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : Basin Lake EL 14/93
 PROSPECT : TUNDAL
 DATE : AUGUST - SEPTEMBER
 LOGGED BY : M VICARY

HOLE DEPTH m	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	PY.	CH.	OX.		FORMATION	ROCK	ALTERATION
121				^									
122				^									
123				^									
124				^									
125				^									
126			30° 60'	^									
127				^									
128				^									
129				^									
130				^									
131				^									
132				^									
133				^									
134				^									
135				^									
136				^									
137				^									
138				^									
139			So 35'	⊞						138.6 - 143.2 Interbedded ^{ashy} dacitic volcaniclastic siltstone and fm gr dacitic volcaniclastic sandstone			
140													
REMARKS													

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN012

SHEET 8 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: BASIN LAKE EL 14/93
PROSPECT	: TYNDALL
DATE	: AUG - SEPT 1995
LOGGED BY	: M VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	PY.	Ch	Carb		HA	ROCK	ALTERATION
141			S ₁ 35										
142												VDF	OS-5
143			C 40										
146										143.7-148.6 Cleaved kalsper-quartz phytic diorite lava st. Qtz phenos. kalsp phenos are sericitic + flattened w/ser.			
148			S ₁ 30									LDC	SO-5
149			C 20										
150										148.6 - 166.15 interbedded m-f gr. dioritic volcanoclastic sediments.			
151										strongly cleaved f-m gr dioritic volcanoclastic sandstones and siltstones. Pink carbonate clasts individual. Distinctive yellow-green colour but becomes hematitic after 100m.			
152			C 30									VDF	OS-5
153			S ₁ 30										
154													
155			C 25										
156													
157													
158													SO-5
159													
160													

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN01Z

SHEET 9 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : Basin Lake EL14/93
 PROSPECT : TUNDALL
 DATE : AUG - SEPT 1995
 LOGGED BY : M VILARZ

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
160			S ₁ 30	▨						
161										
162			S ₁ 30	▨						05H5
163										
164			C 25	▨				164.15 - 185.7 hematitic, detritic - andesitic (kalspar - ferromag) phuric lava breccia. clasts 3mm - 10cm bare conchoidal margins - possibly hyaloclastite. Generally, clast supported with zones of up to 10% pink carbonate matrix		
165				▨						
166				▨						
167										
168				▨						
169										
170										
171										
172				▨						
173										
174				▨						
175										
176				▨						
177										
178				▨						
179										
180										

REMARKS

LDFB
HOC6.

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RGC EXPLORATION PTY LTD

DRILL HOLE No TUN012

SHEET 10 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : BASIN LAKE 02/14/93
 PROSPECT : TYNDALL
 DATE : AUG - SEPT 1995
 LOGGED BY : M VILARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY	
					SIL	SER	PH	CH	SO		ROCK	ALTERATION
181				▨ ▨ ▨ ▨ ▨								
182				▨ ▨ ▨ ▨ ▨								
183				▨ ▨ ▨ ▨ ▨								
184				▨ ▨ ▨ ▨ ▨								
185				▨ ▨ ▨ ▨ ▨								
186				▨ ▨ ▨ ▨ ▨								
187				▨ ▨ ▨ ▨ ▨								
188			S ₁₂₀	▨ ▨ ▨ ▨ ▨ Sp. CCP Sp. CCP						185.7 - 186.0 dacitic volcanoclastic sandstone	LD/DF	SO-5
189				▨ ▨ ▨ ▨ ▨						186.0 - 189.0 dacitic volcanoclastic est. is pink albite alteration near base metals.	LD/DF	SO-5
190				▨ ▨ ▨ ▨ ▨						188.0 - 195.5 altered sericitic feldspar phytic dark lava	LD/DF	SO-5
191				▨ ▨ ▨ ▨ ▨								
192			S ₁₃₅	▨ ▨ ▨ ▨ ▨								
193				▨ ▨ ▨ ▨ ▨								
194				▨ ▨ ▨ ▨ ▨								
195			S ₁₃₅	▨ ▨ ▨ ▨ ▨								
196				▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨						195.5 - 197.3 dark lava 30% carbonate cists	LD/DF	CO-7
197				▨ ▨ ▨ ▨ ▨						197.3 - 198.1 dark lava	LD/DF	CO-7
198				▨ ▨ ▨ ▨ ▨						198.1 - 200.2	LD/DF	CO-7
199				▨ ▨ ▨ ▨ ▨						dark lava + 50% carbonate veins + cists?	LD/DF	CO-7

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN012

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

SHEET 11 OF 19

PROJECT :	BASIN LAKE EL 14/93
PROSPECT :	Tyndall
DATE :	AUG - SEPT 1995
LOGGED BY :	M Vicary

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
200								
201				V		200.2 - 201.2 hm-chl dacite lava with 50% Pink Carbonate veining.	LDF1	COH7
202				V		201.7 - 205.0 Pink hm Carbonate with 20% hm-chl altered dacite lava with abundant Carbonate veining.	CARB	COH9
203				V				
204				V		205.0 - 208.8 hm-chl dacite lava with 50% Pink Carbonate veining.	LDF1	COH7
205				V				
206				V		208.8 - 211.85 massive carbonate with 10% hm-chl dacite lava.	CARB	COH9
207				V				
208				V		EL BOUNDARY EL 103/87 EL 14/93		
209				V		211.85 - 214.30 hm-chl dacite lava with 50% Carbonate veining.	LDF1	COH7
210				V				
211				V		214.30 - 218.8 ser-chl altered dacite volcanoclastic sandstone ± 5% carbonate clasts	VDEF	SOC5
212				V				
213				V		218.8 - 224.0 ser-chl-hm altered dacite volcanoclastic sst.	VDEF	SOC5
214				V				
215				V				
216				V				
217				V				
218				V				
219				V				
220				V				

REMARKS

J - Red Ssp. Occurrence.

RGC EXPLORATION PTY LTD

DRILL HOLE No TYNO12

SHEET 12 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ⊠ Broken core
- ▨ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	BASIN LAKE BL 14/93
PROSPECT	TYNDALL
DATE	AUG - SEPT 1995
LOGGED BY	M VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	HM		ROCK	ALTERATION
220											
221											
222			S ₁ 35							VDFP	SOHS
223											
224				⊠					224.0-224.7 chl-hm dark lava breccia	LOFB	OH-S
225			S ₁ 35						224.7-227.6 strongly cleaved ser-chl-hm altered dacitic volcanoclastic.	VDFP	SOHS
226											
227											
228			S ₁ 40	✓					227.6-238.9 highly cleaved hm-chl altered dacitic lava breccia. curvilinear clasts commonly flattened into S ₁ . Possibly hyaloclastic 1-5% Carbonate veining		
229				⊠							
230				⊠							
231				⊠							
232				✓							
233			S ₁ 40	⊠							
234				✓						LOFB	HO - G
235				✓							
236				✓							
237				✓							
238			S ₁ 40	⊠							
239			grad	⊠					238.9-241.5 ser-hm-chl dacitic volcanoclastic siltstone/sandstone & 20% Carbonate clasts	VDFP	SOHS
240			S ₁ 45	⊠							

REMARKS

S = Red Jasper Occurrence

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN012

SHEET 13 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↖ Narrow vein
- * Visible gold

PROJECT :	BASIN LARG EL 14/93
PROSPECT :	TYNDALL
DATE :	AUG - SEPT 1995
LOGGED BY :	M VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
260				1 16 4 1 4 16 32	SIL. SER. PY.			
261			D A C	16 4 1 4 16 32		24115		
262				16 4 1 4 16 32		Ser-chl Qtz-feldspar phytic lava.		
263				16 4 1 4 16 32		strongly cleaved		
264				16 4 1 4 16 32				
265			S 140	16 4 1 4 16 32				
266				16 4 1 4 16 32				
267				16 4 1 4 16 32				
268				16 4 1 4 16 32				
269				16 4 1 4 16 32				
270				16 4 1 4 16 32				
271			S 145	16 4 1 4 16 32				
272				16 4 1 4 16 32				
273				16 4 1 4 16 32				
274				16 4 1 4 16 32				
275				16 4 1 4 16 32				
276				16 4 1 4 16 32				
277				16 4 1 4 16 32				
278				16 4 1 4 16 32				
279				16 4 1 4 16 32				
280				16 4 1 4 16 32				
281				16 4 1 4 16 32				
282				16 4 1 4 16 32				
283				16 4 1 4 16 32				
284				16 4 1 4 16 32				
285				16 4 1 4 16 32				
286				16 4 1 4 16 32				
287				16 4 1 4 16 32				
288				16 4 1 4 16 32				
289				16 4 1 4 16 32				
290				16 4 1 4 16 32				
291				16 4 1 4 16 32				
292				16 4 1 4 16 32				
293				16 4 1 4 16 32				
294				16 4 1 4 16 32				
295				16 4 1 4 16 32				
296				16 4 1 4 16 32				
297				16 4 1 4 16 32				
298				16 4 1 4 16 32				
299				16 4 1 4 16 32				
300				16 4 1 4 16 32				

REMARKS

ET1
 LR7-
 SO-5
 AQ05

323123

RGC EXPLORATION PTY LTD

DRILL HOLE No TUNO12

SHEET 14 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▣ Broken core
- ▤ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : BASIN LAKE 021473
 PROSPECT : TYNDALL
 DATE : AUG - SEPT 1995
 LOGGED BY : M VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY						
							ROCK	ALTERATION					
260				<table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 10px; height: 10px;">1</td> <td style="border: 1px solid black; width: 10px; height: 10px;">1</td> <td style="border: 1px solid black; width: 10px; height: 10px;">1</td> <td style="border: 1px solid black; width: 10px; height: 10px;">4</td> <td style="border: 1px solid black; width: 10px; height: 10px;">16</td> <td style="border: 1px solid black; width: 10px; height: 10px;">32</td> </tr> </table>	1	1	1	4	16	32			
1	1	1	4	16	32								
261													
262													
263													
264													
265													
266													
267													
268													
269													
270													
271													
272													
273													
274													
275													
276													
277													
278													
279													
280													
REMARKS													

A005

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN012

SHEET 15 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚡ Breccia
- ▨ Broken core
- ◻ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : <u>BASIN LAKE 0214/93</u>
PROSPECT : <u>Tyndall</u>
DATE : <u>AUG-SEPT 1995</u>
LOGGED BY : <u>M Vicary</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.		ROCK	ALTERATION
280										
281				/						
282				/						
283				/						
284				/						
285				/						
286				/						
287				/						
288				/						
289				/						
290				/						
291				/						
292				/						
293				/						
294				/						
295				/						
296				/						
297				/						
298				/						
299				/						

A005

REMARKS

323125

RGC EXPLORATION PTY LTD

DRILL HOLE No TUN012

SHEET 16 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⚠ Breccia
- ⊠ Broken core
- ⋯ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT : Basin Lakes 02 10/93
 PROSPECT : Tyndall
 DATE : Aug - Sept 1995
 LOGGED BY : M Vicary

HOLE DEPTH	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION	GEOLOGY NOTES	SUMMARY		
				16	4	1	4	16	32			SIL.	SER.	PY.	ROCK	ALTERATION
298														
301														
302														
303														
304														
305														
306														
307														
308														
309														
310														
311														
312														
313														
314														
315														
316														
317														
318														
319														
320														

REMARKS

AQ05

303106

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN01Z

SHEET 17 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ▨ Broken core
- ▤ Disseminated
- Massive
- ▩ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: BASIN LAKE EL 18/13
PROSPECT	: TYNDALE
DATE	: AUG - SEPT 1995
LOGGED BY	: M VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.	Sulf.		ROCK	ALTERATION
310				1 16							
311				1 4							
322				1 4							
323				1 4							
324				1 4							
325				1 4							
326				1 4							
327				1 4							
328				1 4							
329			uc S1	1 4							AG05
330				1 4							
331				1 4							
332				1 4							
333				1 4							
334				1 4							
335				1 4							
336				1 4							
337				1 4							
338				1 4							
339				1 4							AG07

REMARKS

328127

RGC EXPLORATION PTY LTD

DRILL HOLE No TYN01Z

SHEET 18 OF 19

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊠ Breccia
- ⊞ Broken core
- ⊘ Disseminated
- Massive
- ▨ Pervasive
- ↘ Narrow vein
- * Visible gold

PROJECT	: BASIN LAKE EL 14193
PROSPECT	: TUNDALL
DATE	: AUG - SEPT 1995
LOGGED BY	: M VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION			GEOLOGY NOTES	SUMMARY		
				1/16	1/4	1/2	3/4	1	1 1/2	SIL.	SER.	PY.		ROCK	ALTERATION	
340																
341																
342																AC07
343																
344																
345																
346			X/6													
347													amygdaloidal rhyolite			
348																
349																
350																
351																
352																AG05
353																
354																
355			X/55													
356																
357																
358																
359																
360																

REMARKS

323128

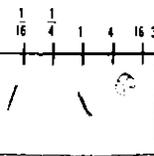
RGC EXPLORATION PTY LTD

DRILL HOLE No TUN012

SHEET 19 OF 19

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

PROJECT	: Basin Lane EL 403
PROSPECT	: TUNDALL
DATE	: Aug - Sept 1985
LOGGED BY	: M. VICARY

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION			GEOLOGY NOTES	SUMMARY	
					SIL	SER	PHY.		ROCK	ALTERATION
361				<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 5px;">  </div> <p>361 3m (EOL)</p>						
REMARKS										

APPENDIX 6

Drill hole rock chip assays

SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
41721	TYN009	69.00	69.71	-2.000	0.000	0.016	0.000	172.000	0.000	209.000	492.000
41722	TYN009	69.71	70.00	-2.000	0.000	0.009	0.000	181.000	0.000	258.000	292.000
41723	TYN009	70.00	71.00	-2.000	0.000	0.008	0.000	277.000	0.000	144.000	482.000
41724	TYN009	71.00	72.00	-2.000	0.000	-0.008	0.000	208.000	0.000	83.000	244.000
41726	TYN009	72.00	73.00	-2.000	0.000	0.017	0.000	108.000	0.000	205.000	637.000
41727	TYN009	73.00	74.00	-2.000	0.000	0.010	0.000	204.000	0.000	166.000	180.000
41728	TYN009	74.00	75.00	-2.000	0.000	0.012	0.000	149.000	0.000	87.000	128.000
41729	TYN009	81.08	81.25	-2.000	0.000	-0.008	0.000	111.000	0.000	9.000	175.000
41730	TYN009	113.40	113.54	-2.000	0.000	-0.008	0.000	85.000	0.000	18.000	145.000
41731	TYN009	135.89	135.89	-2.000	0.000	-0.008	0.000	145.000	0.000	9.000	86.000
41732	TYN009	339.79	339.95	-2.000	0.000	-0.008	0.000	50.000	0.000	19.000	77.000
38878	TYN010	125.00	126.00	-2.000	-0.008	0.000	396.000	37.000	1031.000	26.000	244.000
38879	TYN010	126.00	127.00	-2.000	-0.008	0.000	258.000	93.000	1266.000	72.000	378.000
38880	TYN010	127.00	128.00	-2.000	-0.008	0.000	335.000	28.000	1321.000	33.000	391.000
38881	TYN010	128.00	129.00	-2.000	-0.008	0.000	501.000	35.000	1121.000	7.000	318.000
38882	TYN010	129.00	130.00	-2.000	-0.008	0.000	665.000	28.000	1005.000	-5.000	313.000
38883	TYN010	130.00	131.00	-2.000	-0.008	0.000	1130.000	63.000	1133.000	11.000	289.000
38884	TYN010	131.00	132.00	-2.000	-0.008	0.000	1500.000	80.000	424.000	86.000	245.000
38885	TYN010	132.00	133.00	-2.000	-0.008	0.000	1050.000	101.000	888.000	-5.000	421.000
38886	TYN010	133.00	134.00	-2.000	-0.008	0.000	824.000	20.000	806.000	-5.000	336.000
38887	TYN010	134.00	135.00	-2.000	-0.008	0.000	730.000	35.000	999.000	-5.000	299.000
38888	TYN010	135.00	136.00	-2.000	-0.008	0.000	727.000	118.000	1403.000	18.000	375.000
38889	TYN010	136.00	137.00	-2.000	-0.008	0.000	608.000	84.000	1346.000	-5.000	375.000
38890	TYN010	137.00	138.00	-2.000	-0.008	0.000	668.000	117.000	1084.000	16.000	315.000
38891	TYN010	138.00	139.00	-2.000	-0.008	0.000	604.000	16.000	1350.000	13.000	192.000
38892	TYN010	139.00	140.00	-2.000	-0.008	0.000	747.000	7.000	1164.000	-5.000	218.000
38893	TYN010	140.00	141.00	-2.000	-0.008	0.000	822.000	49.000	818.000	-5.000	245.000
38894	TYN010	141.00	142.00	-2.000	-0.008	0.000	788.000	52.000	1005.000	-5.000	339.000
38895	TYN010	142.00	143.00	-2.000	-0.008	0.000	855.000	33.000	742.000	11.000	251.000
38896	TYN010	143.00	144.00	-2.000	-0.008	0.000	1500.000	80.000	820.000	19.000	155.000
38897	TYN010	144.00	145.00	-2.000	-0.008	0.000	1100.000	82.000	710.000	20.000	208.000
37917	TYN011	282.00	283.00	-2.000	-0.008	0.000	0.000	195.000	0.000	576.000	653.000
37918	TYN011	283.00	284.00	-2.000	-0.008	0.000	0.000	223.000	0.000	466.000	686.000
37919	TYN011	284.00	285.00	-2.000	-0.008	0.000	0.000	75.000	0.000	102.000	477.000
37921	TYN011	285.00	286.00	-2.000	-0.008	0.000	0.000	37.000	0.000	53.000	152.000
37922	TYN011	286.00	287.00	-2.000	-0.008	0.000	0.000	42.000	0.000	98.000	264.000
37923	TYN011	287.00	288.00	-2.000	-0.008	0.000	0.000	53.000	0.000	220.000	332.000
37924	TYN011	288.00	289.00	-2.000	-0.008	0.000	0.000	60.000	0.000	120.000	276.000

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SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
37925	TYN011	289.00	290.00	-2.000	-0.008	0.000	0.000	47.000	0.000	109.000	334.000
37926	TYN011	290.00	291.00	-2.000	-0.008	0.000	0.000	60.000	0.000	43.000	83.000
37927	TYN011	291.00	292.00	-2.000	-0.008	0.000	0.000	60.000	0.000	45.000	91.000
37928	TYN011	292.00	293.00	-2.000	-0.008	0.000	0.000	56.000	0.000	74.000	129.000
37929	TYN011	293.00	294.00	-2.000	-0.008	0.000	0.000	55.000	0.000	67.000	64.000
37930	TYN011	294.00	295.00	-2.000	-0.008	0.000	0.000	54.000	0.000	53.000	60.000
37931	TYN011	295.00	296.00	-2.000	-0.008	0.000	0.000	50.000	0.000	57.000	77.000
37932	TYN011	296.00	297.00	-2.000	-0.008	0.000	0.000	52.000	0.000	43.000	64.000
37933	TYN011	297.00	298.00	-2.000	-0.008	0.000	0.000	51.000	0.000	44.000	73.000
37934	TYN011	298.00	299.00	-2.000	-0.008	0.000	0.000	65.000	0.000	150.000	289.000
37935	TYN011	299.00	300.00	-2.000	-0.008	0.000	0.000	52.000	0.000	49.000	101.000
37936	TYN011	300.00	301.00	-2.000	-0.008	0.000	0.000	43.000	0.000	48.000	52.000
37937	TYN011	301.00	302.00	-2.000	-0.008	0.000	0.000	50.000	0.000	49.000	66.000
37938	TYN011	302.00	303.00	-2.000	-0.008	0.000	0.000	53.000	0.000	59.000	90.000
37939	TYN011	303.00	304.00	-2.000	-0.008	0.000	0.000	54.000	0.000	66.000	115.000
37941	TYN011	304.00	305.00	-2.000	-0.008	0.000	0.000	64.000	0.000	48.000	104.000
37942	TYN011	305.00	306.00	-2.000	-0.008	0.000	0.000	91.000	0.000	41.000	168.000
37943	TYN011	306.00	307.00	-2.000	-0.008	0.000	0.000	53.000	0.000	40.000	113.000
37944	TYN011	307.00	308.00	-2.000	-0.008	0.000	0.000	27.000	0.000	33.000	78.000
37945	TYN011	308.00	309.00	-2.000	-0.008	0.000	0.000	25.000	0.000	50.000	65.000
37946	TYN011	309.00	310.00	-2.000	-0.008	0.000	0.000	20.000	0.000	80.000	76.000
37947	TYN011	310.00	311.00	-2.000	-0.008	0.000	0.000	19.000	0.000	142.000	95.000
37948	TYN011	311.00	312.00	-2.000	-0.008	0.000	0.000	66.000	0.000	107.000	325.000
37949	TYN011	312.00	313.00	-2.000	-0.008	0.000	0.000	70.000	0.000	112.000	855.000
37950	TYN011	313.00	314.00	-2.000	-0.008	0.000	0.000	63.000	0.000	54.000	270.000
37951	TYN011	314.00	315.00	-2.000	-0.008	0.000	0.000	64.000	0.000	53.000	222.000
37952	TYN011	315.00	316.00	-2.000	0.015	0.000	0.000	65.000	0.000	327.000	538.000
37953	TYN011	316.00	317.00	-2.000	-0.008	0.000	0.000	90.000	0.000	138.000	2042.000
37954	TYN011	317.00	318.00	-2.000	0.024	0.000	0.000	117.000	0.000	173.000	69.000
37955	TYN011	318.00	319.00	-2.000	0.016	0.000	0.000	105.000	0.000	199.000	961.000
37956	TYN011	319.00	320.00	-2.000	-0.008	0.000	0.000	97.000	0.000	90.000	280.000
37957	TYN011	320.00	321.00	-2.000	-0.008	0.000	0.000	69.000	0.000	44.000	150.000
37958	TYN011	321.00	322.00	-2.000	-0.008	0.000	0.000	51.000	0.000	41.000	75.000
37959	TYN011	322.00	323.00	-2.000	-0.008	0.000	0.000	54.000	0.000	37.000	125.000
37961	TYN011	323.00	324.00	-2.000	-0.008	0.000	0.000	246.000	0.000	498.000	840.000
37962	TYN011	324.00	325.00	-2.000	-0.008	0.000	0.000	51.000	0.000	70.000	95.000
37963	TYN011	325.00	326.00	-2.000	-0.008	0.000	0.000	51.000	0.000	51.000	176.000
37964	TYN011	326.00	327.00	-2.000	-0.008	0.000	0.000	47.000	0.000	45.000	194.000

323131

SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
37965	TYN011	327.00	328.00	-2.000	-0.008	0.000	0.000	87.000	0.000	62.000	168.000
37966	TYN011	328.00	329.00	-2.000	-0.008	0.000	0.000	44.000	0.000	141.000	1034.000
37967	TYN011	329.00	330.00	-2.000	-0.008	0.000	0.000	31.000	0.000	57.000	551.000
37968	TYN011	330.00	331.00	-2.000	-0.008	0.000	0.000	20.000	0.000	57.000	47.000
37969	TYN011	331.00	332.00	-2.000	-0.008	0.000	0.000	445.000	0.000	138.000	964.000
37970	TYN011	332.00	333.00	2.000	-0.008	0.000	0.000	2972.000	0.000	154.000	92.000
37971	TYN011	333.00	334.00	-2.000	0.018	0.000	0.000	494.000	0.000	78.000	73.000
37972	TYN011	334.00	335.00	-2.000	-0.008	0.000	0.000	89.000	0.000	79.000	319.000
37973	TYN011	335.00	336.00	-2.000	-0.008	0.000	0.000	66.000	0.000	79.000	156.000
37974	TYN011	336.00	337.00	-2.000	-0.008	0.000	0.000	61.000	0.000	52.000	128.000
37975	TYN011	337.00	338.00	-2.000	-0.008	0.000	0.000	47.000	0.000	79.000	73.000
37976	TYN011	338.00	339.00	-2.000	-0.008	0.000	0.000	37.000	0.000	80.000	55.000
37977	TYN011	339.00	340.00	-2.000	-0.008	0.000	0.000	55.000	0.000	83.000	65.000
37978	TYN011	340.00	341.00	-2.000	-0.008	0.000	0.000	45.000	0.000	59.000	49.000
37979	TYN011	341.00	342.00	-2.000	-0.008	0.000	0.000	42.000	0.000	73.000	78.000
37981	TYN011	342.00	343.00	-2.000	-0.008	0.000	0.000	44.000	0.000	79.000	48.000
37982	TYN011	343.00	344.00	-2.000	-0.008	0.000	0.000	46.000	0.000	66.000	49.000
37983	TYN011	344.00	345.00	-2.000	-0.008	0.000	0.000	59.000	0.000	73.000	57.000
37984	TYN011	345.00	346.00	-2.000	-0.008	0.000	0.000	46.000	0.000	67.000	39.000
37985	TYN011	346.00	347.00	-2.000	-0.008	0.000	0.000	41.000	0.000	92.000	95.000
37986	TYN011	347.00	348.00	-2.000	-0.008	0.000	0.000	43.000	0.000	58.000	48.000
37987	TYN011	348.00	349.00	-2.000	-0.008	0.000	0.000	42.000	0.000	53.000	42.000
37988	TYN011	349.00	350.00	-2.000	-0.008	0.000	0.000	47.000	0.000	66.000	44.000
37989	TYN011	350.00	351.00	-2.000	-0.008	0.000	0.000	50.000	0.000	66.000	46.000
37990	TYN011	351.00	352.00	-2.000	-0.008	0.000	0.000	42.000	0.000	57.000	47.000
37991	TYN011	352.00	353.00	-2.000	-0.008	0.000	0.000	71.000	0.000	88.000	53.000
37992	TYN011	353.00	354.00	-2.000	-0.008	0.000	0.000	59.000	0.000	85.000	50.000
37993	TYN011	354.00	355.00	-2.000	-0.008	0.000	0.000	47.000	0.000	43.000	36.000
37994	TYN011	355.00	356.00	-2.000	-0.008	0.000	0.000	73.000	0.000	62.000	72.000
37995	TYN011	356.00	357.00	-2.000	-0.008	0.000	0.000	46.000	0.000	69.000	58.000
37996	TYN011	357.00	358.00	-2.000	-0.008	0.000	0.000	49.000	0.000	67.000	110.000
37997	TYN011	358.00	359.00	-2.000	-0.008	0.000	0.000	47.000	0.000	72.000	82.000
37998	TYN011	359.00	360.00	-2.000	-0.008	0.000	0.000	57.000	0.000	98.000	93.000
37999	TYN011	360.00	361.00	-2.000	-0.008	0.000	0.000	60.000	0.000	134.000	70.000
37609	TYN011	361.00	362.00	-1.000	-0.008	0.000	0.000	60.000	0.000	124.000	110.000
37610	TYN011	362.00	363.00	-1.000	-0.008	0.000	0.000	88.000	0.000	73.000	206.000
37611	TYN011	363.00	364.00	-1.000	-0.008	0.000	0.000	113.000	0.000	92.000	416.000
37612	TYN011	364.00	365.00	-1.000	-0.008	0.000	0.000	90.000	0.000	118.000	567.000

323132

SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
37613	TYN011	365.00	366.00	-1.000	-0.008	0.000	0.000	65.000	0.000	100.000	84.000
37614	TYN011	366.00	367.00	-1.000	-0.008	0.000	0.000	44.000	0.000	44.000	114.000
37615	TYN011	367.00	368.00	-1.000	-0.008	0.000	0.000	48.000	0.000	79.000	119.000
37616	TYN011	368.00	369.00	-1.000	0.015	0.000	0.000	57.000	0.000	178.000	348.000
37617	TYN011	369.00	370.00	-1.000	-0.008	0.000	0.000	53.000	0.000	104.000	652.000
37618	TYN011	370.00	371.00	-1.000	0.022	0.000	0.000	307.000	0.000	401.000	1467.000
37619	TYN011	371.00	372.00	-1.000	0.012	0.000	0.000	83.000	0.000	198.000	1449.000
37621	TYN011	372.00	373.00	-1.000	0.016	0.000	0.000	97.000	0.000	569.000	2934.000
37622	TYN011	373.00	374.00	-1.000	0.010	0.000	0.000	43.000	0.000	544.000	1829.000
37623	TYN011	374.00	375.00	-1.000	0.008	0.000	0.000	41.000	0.000	116.000	145.000
37624	TYN011	375.00	376.00	-1.000	-0.008	0.000	0.000	42.000	0.000	50.000	189.000
37625	TYN011	376.00	377.00	-1.000	-0.008	0.000	0.000	46.000	0.000	69.000	264.000
37626	TYN011	377.00	378.00	-1.000	-0.008	0.000	0.000	56.000	0.000	127.000	1803.000
37627	TYN011	378.00	379.00	-1.000	0.011	0.000	0.000	51.000	0.000	305.000	1410.000
37628	TYN011	379.00	380.00	-1.000	0.018	0.000	0.000	57.000	0.000	331.000	903.000
37629	TYN011	380.00	381.00	-1.000	0.022	0.000	0.000	94.000	0.000	372.000	594.000
37630	TYN011	381.00	382.00	-1.000	0.016	0.000	0.000	127.000	0.000	242.000	578.000
37631	TYN011	382.00	383.00	-1.000	0.009	0.000	0.000	68.000	0.000	1252.000	1758.000
37632	TYN011	383.00	384.00	-1.000	0.023	0.000	0.000	67.000	0.000	260.000	2288.000
37633	TYN011	384.00	385.00	-1.000	0.016	0.000	0.000	111.000	0.000	1280.000	1770.000
37634	TYN011	385.00	386.00	-1.000	0.016	0.000	0.000	117.000	0.000	448.000	1182.000
37635	TYN011	386.00	387.00	-1.000	0.032	0.000	0.000	282.000	0.000	113.000	253.000
37636	TYN011	387.00	388.00	-1.000	0.032	0.000	0.000	714.000	0.000	31.000	66.000
37637	TYN011	388.00	389.00	-1.000	0.032	0.000	0.000	122.000	0.000	34.000	11.000
37638	TYN011	389.00	390.00	-1.000	0.038	0.000	0.000	181.000	0.000	36.000	24.000
37639	TYN011	390.00	391.00	-1.000	0.033	0.000	0.000	106.000	0.000	124.000	44.000
37641	TYN011	391.00	392.00	-1.000	0.034	0.000	0.000	100.000	0.000	222.000	82.000
37642	TYN011	392.00	393.00	-1.000	0.022	0.000	0.000	79.000	0.000	85.000	252.000
37643	TYN011	393.00	394.00	-1.000	0.031	0.000	0.000	134.000	0.000	85.000	162.000
37644	TYN011	394.00	395.00	-1.000	0.023	0.000	0.000	404.000	0.000	57.000	547.000
37645	TYN011	395.00	396.00	-1.000	0.036	0.000	0.000	164.000	0.000	120.000	565.000
37646	TYN011	396.00	397.00	-1.000	0.079	0.000	0.000	350.000	0.000	132.000	102.000
37647	TYN011	397.00	398.00	-1.000	0.022	0.000	0.000	127.000	0.000	54.000	374.000
37648	TYN011	398.00	399.00	-1.000	-0.008	0.000	0.000	124.000	0.000	79.000	297.000
37649	TYN011	399.00	400.00	-1.000	0.013	0.000	0.000	193.000	0.000	103.000	403.000
37650	TYN011	400.00	401.00	-1.000	0.018	0.000	0.000	382.000	0.000	35.000	487.000
37651	TYN011	401.00	402.00	-1.000	0.014	0.000	0.000	88.000	0.000	16.000	206.000
37652	TYN011	402.00	403.00	-1.000	0.041	0.000	0.000	210.000	0.000	36.000	235.000

SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
37653	TYN011	403.00	404.00	-1.000	0.022	0.000	0.000	135.000	0.000	19.000	311.000
37654	TYN011	404.00	405.00	-1.000	0.018	0.000	0.000	218.000	0.000	17.000	146.000
37655	TYN011	405.00	406.00	-1.000	0.028	0.000	0.000	160.000	0.000	16.000	122.000
37656	TYN011	406.00	407.00	-1.000	0.020	0.000	0.000	226.000	0.000	11.000	233.000
37657	TYN011	407.00	408.00	-1.000	0.017	0.000	0.000	122.000	0.000	8.000	83.000
37658	TYN011	408.00	409.00	-1.000	0.019	0.000	0.000	195.000	0.000	5.000	30.000
37659	TYN011	409.00	410.00	-1.000	0.024	0.000	0.000	98.000	0.000	6.000	10.000
37661	TYN011	410.00	411.00	-1.000	0.015	0.000	0.000	65.000	0.000	-5.000	-4.000
37662	TYN011	411.00	412.00	-1.000	0.030	0.000	0.000	34.000	0.000	5.000	-4.000
37663	TYN011	412.00	413.00	-1.000	0.014	0.000	0.000	144.000	0.000	8.000	20.000
37664	TYN011	413.00	414.00	-1.000	0.008	0.000	0.000	99.000	0.000	10.000	92.000
37665	TYN011	414.00	415.00	-1.000	0.014	0.000	0.000	96.000	0.000	10.000	68.000
37666	TYN011	415.00	416.00	-1.000	0.012	0.000	0.000	46.000	0.000	13.000	11.000
37667	TYN011	416.00	417.00	-1.000	0.013	0.000	0.000	296.000	0.000	18.000	47.000
37668	TYN011	417.00	418.00	-1.000	0.010	0.000	0.000	85.000	0.000	18.000	140.000
37669	TYN011	418.00	419.00	-1.000	-0.008	0.000	0.000	81.000	0.000	21.000	462.000
37670	TYN011	419.00	420.00	-1.000	0.008	0.000	0.000	122.000	0.000	16.000	282.000
37671	TYN011	420.00	421.00	-1.000	-0.008	0.000	0.000	140.000	0.000	52.000	325.000
37672	TYN011	421.00	422.00	-1.000	0.009	0.000	0.000	253.000	0.000	8.000	468.000
37673	TYN011	422.00	423.00	-1.000	0.043	0.000	0.000	64.000	0.000	143.000	83.000
37674	TYN011	423.00	424.00	-1.000	0.021	0.000	0.000	36.000	0.000	88.000	31.000
37675	TYN011	424.00	425.00	-1.000	-0.008	0.000	0.000	36.000	0.000	187.000	59.000
37676	TYN011	425.00	426.00	-1.000	0.008	0.000	0.000	31.000	0.000	21.000	10.000
37677	TYN011	426.00	427.00	-1.000	0.010	0.000	0.000	36.000	0.000	37.000	6.000
37678	TYN011	427.00	428.00	-1.000	0.017	0.000	0.000	52.000	0.000	50.000	28.000
37679	TYN011	428.00	429.00	-1.000	0.011	0.000	0.000	141.000	0.000	18.000	76.000
37681	TYN011	429.00	430.00	-1.000	0.030	0.000	0.000	212.000	0.000	42.000	48.000
37682	TYN011	430.00	431.00	-1.000	-0.008	0.000	0.000	21.000	0.000	13.000	11.000
37683	TYN011	431.00	432.00	-1.000	0.015	0.000	0.000	160.000	0.000	27.000	148.000
37684	TYN011	432.00	433.00	-1.000	0.013	0.000	0.000	148.000	0.000	57.000	298.000
37685	TYN011	433.00	434.00	-1.000	0.019	0.000	0.000	159.000	0.000	75.000	195.000
37686	TYN011	434.00	435.00	-1.000	0.008	0.000	0.000	300.000	0.000	18.000	134.000
37687	TYN011	435.00	436.00	-1.000	-0.008	0.000	0.000	179.000	0.000	12.000	103.000
37688	TYN011	436.00	437.00	-1.000	0.009	0.000	0.000	145.000	0.000	10.000	130.000
37689	TYN011	437.00	438.00	-1.000	0.020	0.000	0.000	137.000	0.000	29.000	148.000
37690	TYN011	438.00	439.00	-1.000	-0.008	0.000	0.000	102.000	0.000	48.000	104.000
37691	TYN011	439.00	440.00	-1.000	0.009	0.000	0.000	62.000	0.000	25.000	100.000
37692	TYN011	440.00	441.00	-1.000	0.009	0.000	0.000	54.000	0.000	34.000	118.000

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SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
37693	TYN011	441.00	442.00	-1.000	0.009	0.000	0.000	60.000	0.000	25.000	138.000
37694	TYN011	442.00	443.00	-1.000	-0.008	0.000	0.000	77.000	0.000	126.000	151.000
37695	TYN011	443.00	444.00	-1.000	-0.008	0.000	0.000	55.000	0.000	22.000	125.000
37696	TYN011	444.00	445.00	-1.000	-0.008	0.000	0.000	10.000	0.000	-5.000	96.000
37697	TYN011	445.00	446.00	-1.000	0.009	0.000	0.000	28.000	0.000	-5.000	91.000
37698	TYN011	446.00	447.00	-1.000	-0.008	0.000	0.000	77.000	0.000	14.000	109.000
37699	TYN011	447.00	448.00	-1.000	-0.008	0.000	0.000	41.000	0.000	-5.000	102.000
37701	TYN011	448.00	449.00	-1.000	-0.008	0.000	0.000	90.000	0.000	10.000	79.000
37702	TYN011	449.00	450.00	-1.000	-0.008	0.000	0.000	62.000	0.000	7.000	71.000
37703	TYN011	450.00	451.00	-1.000	-0.008	0.000	0.000	41.000	0.000	-5.000	70.000
37704	TYN011	451.00	452.00	-1.000	-0.008	0.000	0.000	55.000	0.000	-5.000	81.000
37705	TYN011	452.00	453.00	-1.000	-0.008	0.000	0.000	51.000	0.000	-5.000	65.000
37706	TYN011	453.00	454.00	-1.000	-0.008	0.000	0.000	55.000	0.000	-5.000	58.000
37707	TYN011	454.00	455.00	-1.000	-0.008	0.000	0.000	52.000	0.000	-5.000	59.000
37708	TYN011	455.00	456.00	-1.000	-0.008	0.000	0.000	44.000	0.000	-5.000	65.000
37709	TYN011	456.00	457.00	-1.000	-0.008	0.000	0.000	53.000	0.000	17.000	60.000
37710	TYN011	457.00	458.00	-1.000	-0.008	0.000	0.000	86.000	0.000	15.000	95.000
37711	TYN011	458.00	459.00	-1.000	0.009	0.000	0.000	95.000	0.000	60.000	68.000
37712	TYN011	459.00	460.00	-1.000	-0.008	0.000	0.000	34.000	0.000	21.000	54.000
37713	TYN011	460.00	461.00	-1.000	-0.008	0.000	0.000	58.000	0.000	23.000	169.000
37714	TYN011	461.00	462.00	-1.000	-0.008	0.000	0.000	39.000	0.000	116.000	74.000
37715	TYN011	462.00	463.00	4.000	0.089	0.000	0.000	2165.000	0.000	622.000	536.000
37716	TYN011	463.00	464.00	4.000	0.076	0.000	0.000	1694.000	0.000	382.000	438.000
37717	TYN011	464.00	465.00	3.000	0.122	0.000	0.000	2875.000	0.000	587.000	791.000
37718	TYN011	465.00	466.00	-1.000	-0.008	0.000	0.000	66.000	0.000	98.000	124.000
37719	TYN011	466.00	467.00	-1.000	-0.008	0.000	0.000	63.000	0.000	113.000	139.000
37721	TYN011	467.00	468.00	-1.000	-0.008	0.000	0.000	76.000	0.000	55.000	87.000
37722	TYN011	468.00	469.00	-1.000	-0.008	0.000	0.000	166.000	0.000	17.000	120.000
37723	TYN011	469.00	470.00	-1.000	-0.008	0.000	0.000	87.000	0.000	26.000	88.000
37724	TYN011	470.00	471.00	-1.000	-0.008	0.000	0.000	144.000	0.000	17.000	110.000
37725	TYN011	471.00	472.00	-1.000	-0.008	0.000	0.000	95.000	0.000	7.000	87.000
37726	TYN011	472.00	473.00	-1.000	-0.008	0.000	0.000	45.000	0.000	8.000	77.000
37727	TYN011	473.00	474.00	-1.000	-0.008	0.000	0.000	85.000	0.000	31.000	76.000
37728	TYN011	474.00	475.00	-1.000	-0.008	0.000	0.000	40.000	0.000	12.000	63.000
37729	TYN011	475.00	476.00	-1.000	-0.008	0.000	0.000	43.000	0.000	11.000	64.000
37730	TYN011	476.00	477.00	-1.000	-0.008	0.000	0.000	16.000	0.000	7.000	75.000
37731	TYN011	477.00	478.00	-1.000	-0.008	0.000	0.000	86.000	0.000	6.000	111.000
37732	TYN011	478.00	479.00	-1.000	-0.008	0.000	0.000	126.000	0.000	18.000	150.000

SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
37733	TYN011	479.00	480.00	-1.000	-0.008	0.000	0.000	105.000	0.000	7.000	190.000
37734	TYN011	480.00	481.00	-1.000	-0.008	0.000	0.000	102.000	0.000	6.000	155.000
37735	TYN011	481.00	482.00	-1.000	-0.008	0.000	0.000	62.000	0.000	36.000	177.000
37736	TYN011	482.00	483.00	-1.000	-0.008	0.000	0.000	27.000	0.000	7.000	151.000
37737	TYN011	483.00	484.00	-1.000	-0.008	0.000	0.000	60.000	0.000	20.000	185.000
37738	TYN011	484.00	485.00	-1.000	-0.008	0.000	0.000	33.000	0.000	6.000	213.000
37739	TYN011	485.00	486.00	-1.000	-0.008	0.000	0.000	64.000	0.000	19.000	193.000
37741	TYN011	486.00	487.00	-1.000	-0.008	0.000	0.000	79.000	0.000	108.000	205.000
37742	TYN011	487.00	488.00	-1.000	-0.008	0.000	0.000	73.000	0.000	50.000	193.000
37743	TYN011	488.00	489.00	-1.000	-0.008	0.000	0.000	121.000	0.000	34.000	147.000
37801	TYN012	187.00	188.00	-2.000	0.042	0.000	5510.000	166.000	1444.000	-5.000	514.000
37802	TYN012	188.00	189.00	26.000	0.050	0.000	4755.000	598.000	1947.000	628.000	510.000
37803	TYN012	189.00	190.00	-2.000	0.014	0.000	3900.000	16.000	1416.000	-5.000	470.000
37804	TYN012	190.00	191.00	-2.000	0.010	0.000	4335.000	37.000	1409.000	52.000	537.000
37805	TYN012	191.00	192.00	5.000	0.019	0.000	4695.000	180.000	1292.000	874.000	1802.000
37806	TYN012	192.00	193.00	2.000	0.022	0.000	9785.000	75.000	2907.000	130.000	698.000
37807	TYN012	193.00	194.00	-2.000	0.012	0.000	7605.000	9.000	2136.000	7.000	566.000
37808	TYN012	194.00	195.00	-2.000	-0.008	0.000	5765.000	9.000	1491.000	-5.000	491.000
37809	TYN012	195.00	196.00	3.000	-0.008	0.000	3055.000	71.000	4353.000	55.000	510.000
37810	TYN012	196.00	197.00	3.000	-0.008	0.000	1735.000	33.000	4325.000	14.000	598.000
37811	TYN012	197.00	198.00	2.000	-0.008	0.000	956.000	19.000	3556.000	8.000	1013.000
37812	TYN012	198.00	199.00	2.000	-0.008	0.000	131.000	23.000	0.000	15.000	538.000
37813	TYN012	199.00	200.00	3.000	-0.008	0.000	544.000	11.000	4905.000	10.000	668.000
37814	TYN012	200.00	201.00	3.000	-0.008	0.000	463.000	13.000	3066.000	18.000	312.000
37815	TYN012	201.00	202.00	3.000	-0.008	0.000	553.000	11.000	1513.000	14.000	241.000
37816	TYN012	202.00	203.00	3.000	-0.008	0.000	269.000	17.000	1075.000	15.000	176.000
37817	TYN012	203.00	204.00	2.000	-0.008	0.000	368.000	17.000	1173.000	22.000	168.000
37818	TYN012	204.00	205.00	3.000	-0.008	0.000	220.000	16.000	1002.000	21.000	142.000
37819	TYN012	205.00	206.00	2.000	-0.008	0.000	335.000	19.000	1076.000	17.000	175.000
37821	TYN012	206.00	207.00	3.000	-0.008	0.000	250.000	23.000	1210.000	19.000	159.000
37822	TYN012	207.00	208.00	3.000	-0.008	0.000	377.000	10.000	1101.000	17.000	156.000
37823	TYN012	208.00	209.00	4.000	-0.008	0.000	559.000	10.000	1361.000	19.000	211.000
37824	TYN012	209.00	210.00	4.000	-0.008	0.000	746.000	9.000	1755.000	25.000	131.000
37825	TYN012	210.00	211.00	3.000	-0.008	0.000	359.000	8.000	1547.000	24.000	171.000
37826	TYN012	211.00	212.00	2.000	-0.008	0.000	551.000	9.000	1249.000	19.000	183.000
37827	TYN012	212.00	213.00	4.000	-0.008	0.000	437.000	8.000	1236.000	18.000	183.000
37828	TYN012	213.00	214.00	5.000	-0.008	0.000	637.000	8.000	1965.000	20.000	147.000
37829	TYN012	214.00	215.00	4.000	-0.008	0.000	1590.000	13.000	2258.000	13.000	227.000

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SAMPLE	HOLE	DEPTHF	DEPTHT	AG_A	AU_A	AU_G	BA_A	CU_A	MN_A	PB_A	ZN_A
37830	TYN012	215.00	216.00	3.000	-0.008	0.000	2275.000	10.000	1669.000	10.000	320.000
37831	TYN012	216.00	217.00	3.000	-0.008	0.000	2635.000	157.000	1616.000	338.000	608.000
37832	TYN012	217.00	218.00	4.000	-0.008	0.000	1375.000	224.000	3421.000	791.000	739.000
37833	TYN012	218.00	219.00	3.000	-0.008	0.000	699.000	74.000	2080.000	60.000	258.000
37834	TYN012	219.00	220.00	4.000	-0.008	0.000	1065.000	63.000	1856.000	134.000	285.000
37835	TYN012	220.00	221.00	3.000	-0.008	0.000	1140.000	64.000	1004.000	22.000	278.000
37836	TYN012	221.00	222.00	4.000	-0.008	0.000	873.000	65.000	1053.000	35.000	247.000
37837	TYN012	222.00	223.00	2.000	-0.008	0.000	733.000	11.000	1132.000	9.000	232.000
37838	TYN012	223.00	224.00	4.000	-0.008	0.000	664.000	97.000	1296.000	36.000	244.000
37839	TYN012	224.00	225.00	3.000	-0.008	0.000	635.000	8.000	976.000	7.000	150.000
37841	TYN012	225.00	226.00	3.000	-0.008	0.000	754.000	100.000	1035.000	18.000	151.000
37842	TYN012	226.00	227.00	4.000	-0.008	0.000	784.000	105.000	1059.000	107.000	115.000
37843	TYN012	227.00	228.00	3.000	-0.008	0.000	514.000	25.000	1017.000	15.000	105.000
37844	TYN012	228.00	229.00	5.000	-0.008	0.000	453.000	122.000	1076.000	10.000	88.000
37845	TYN012	229.00	230.00	3.000	-0.008	0.000	385.000	15.000	1090.000	10.000	109.000
37846	TYN012	230.00	231.00	-2.000	-0.008	0.000	501.000	27.000	886.000	10.000	98.000
37847	TYN012	231.00	232.00	-2.000	-0.008	0.000	575.000	42.000	976.000	12.000	87.000
37848	TYN012	232.00	233.00	-2.000	-0.008	0.000	467.000	11.000	1061.000	9.000	93.000
37849	TYN012	233.00	234.00	2.000	-0.008	0.000	425.000	42.000	1021.000	11.000	93.000
37850	TYN012	234.00	235.00	-2.000	-0.008	0.000	1040.000	17.000	1044.000	7.000	102.000
37851	TYN012	235.00	236.00	-2.000	-0.008	0.000	529.000	12.000	1039.000	9.000	108.000
37852	TYN012	236.00	237.00	-2.000	-0.008	0.000	830.000	17.000	1067.000	11.000	113.000
37853	TYN012	237.00	238.00	-2.000	-0.008	0.000	570.000	5.000	1006.000	8.000	116.000
37854	TYN012	238.00	239.00	-2.000	-0.008	0.000	762.000	5.000	1096.000	5.000	107.000
37855	TYN012	239.00	240.00	-2.000	-0.008	0.000	1410.000	70.000	1230.000	19.000	124.000
37856	TYN012	240.00	241.00	2.000	-0.008	0.000	2285.000	80.000	1668.000	14.000	140.000
37857	TYN012	241.00	242.00	-2.000	-0.008	0.000	1140.000	39.000	1510.000	18.000	153.000
37858	TYN012	242.00	243.00	2.000	-0.008	0.000	1075.000	285.000	1302.000	45.000	131.000

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Basin Lake - Lithogeochemical Sampling													
Drill Hole	Depth (m)	Unit	Sample No	Ag.A	Ag.N	As.A	As.N	Au.N	Ba.N	Br.N	Ce.N	Co.N	Cr.N
TYN006	346.1	Andesite	T41711			-5	8.44	-5	960	-2	98.2	23.6	106
TYN006	354.2	Andesite	T41712			-5	16.8	-5	399	-2	104	25.4	84.1
TYN006	333.8	Andesite	T41713			-5	10.9	-5	7830	-2	108	27.1	26.9
TYN007	144.4	Andesite	T41714			-5	12.9	-5	895	-2	220	36.7	59.8
TYN008	157.1	Andesite	T41715			-5	8.55	-5	320	-2	181	29.4	112
TYN008	175.8	Andesite	T41716			-5	3.64	-5	764	-2	143	26.9	100
TYN008	204.3	Andesite	T41717			-5	10	-5	726	-2	133	21.1	106
TYN009	81.08	Dacite	T41729	-2			27.1	-5	473	-2	96	19.4	12.2
TYN009	113.4	Dacite	T41730	-2			9.45	-5	1280	-2	82.6	33.4	19.2
TYN009	135.89	Dacite	T41731	-2			4.26	-5	479	-2	88.7	21.5	42.6
TYN009	339.79	Dacite	T41732	-2			3.24	-5	1140	-2	92.8	25.4	58.6
BLD89-3	241.38	Dacite	T41733	-2	-5		2.53	-5	442	-2	59.7	37.4	6.1
BLD89-3	258.17	Dacite	T41734	-2	-5		3.78	-5	198	-2	77.8	33.5	-5
BLD89-3	289.88	Dacite	T41735	-2	-5		1.98	-5	296	-2	70.8	25.9	55.8
TYN007	87.9	Dacite	T41736	-2	-5		2.24	-5	601	-2	74.3	30.2	23

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Basin Lake - Lithochemical Sampling																
Drill Hole	Depth (m)	Unit	Sample No.	Cs.N	Cu.A	Eu.N	Fe.N	Hf.N	Ir.N	K.N	La.N	Lu.N	Mo.N			
TYN006	346.1	Andesite	T41711	1.02	68	1.42	4.93	3.09	-20	2.36	53.8	0.33	-5			
TYN006	354.2	Andesite	T41712	-1	27	1.59	5.1	3.16	-20	1.15	63.3	0.32	-5			
TYN006	333.8	Andesite	T41713	9.32	8	1.42	5.4	3.38	-20	2.79	57	0.28	-5			
TYN007	144.4	Andesite	T41714	2.2	12	3.06	5.87	4.1	-20	-0.2	126	0.39	-5			
TYN008	157.1	Andesite	T41715	2.03	14	1.92	5.61	4.37	-20	-0.2	101	0.26	-5			
TYN008	175.8	Andesite	T41716	1.71	46	1.77	4.28	3.77	-20	1.17	76.9	0.28	-5			
TYN008	204.3	Andesite	T41717	-1	11	2.23	5.21	3.9	-20	1.41	68.6	0.29	-5			
TYN009	81.08	Dacite	T41729	2.82	111	2.2	5.78	4.33		1.13	48.4	0.48				
TYN009	113.4	Dacite	T41730	8.09	85	1.66	7.44	3.36		1.31	38.5	0.46				
TYN009	135.89	Dacite	T41731	5.25	145	1.37	5.03	3.45		1.97	44.5	0.48				
TYN009	339.79	Dacite	T41732	5.82	50	1.54	4.93	4.13		2.44	48.1	0.34				
BLD89-3	241.38	Dacite	T41733	2.72	217	1.11	9.03	2.78		0.86	30.7	0.32				
BLD89-3	258.17	Dacite	T41734	-1	56	1.91	7.37	4.63		-0.2	43.3	0.5				
BLD89-3	289.88	Dacite	T41735	6.28	54	1.41	5.2	3.48		0.93	39.5	0.29				
TYN007	87.9	Dacite	T41736	3.69	83	1.58	5.32	4.08		1.88	38.5	0.33				

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Basin Lake - Lithochemical Sampling													
Drill Hole	Depth (m)	Unit	Sample N	Na.N	Nb.X	Pb.A	P.X	Rb.N	Sb.N	Sc.N	Se.N	Sm.N	Sn.N
TYN006	346.1	Andesite	T41711	2.44	3	-5	0.98	-20	1.57	26.4	-5	6.47	-500
TYN006	354.2	Andesite	T41712	4.61	5	-5	0.113	25	2.6	27.8	-5	7.09	-500
TYN006	333.8	Andesite	T41713	3.69	6	-5	0.134	105	5.59	26	-5	7.13	-500
TYN007	144.4	Andesite	T41714	5.29	9	-5	0.238	-20	2.16	30.9	-5	14.7	-500
TYN008	157.1	Andesite	T41715	5.36	6	7	0.186	-20	1.87	27.6	-5	11.4	-500
TYN008	175.8	Andesite	T41716	3.68	5	12	0.157	23.7	1.55	21.4	-5	9.59	-500
TYN008	204.3	Andesite	T41717	5.4	7	-5	0.171	52.3	1.79	23.5	-5	10.2	-500
TYN009	81.08	Dacite	T41729	4.77		9		-20	0.74	27.1		9.04	-500
TYN009	113.4	Dacite	T41730	3.48		18		67.3	0.93	33.3		7.83	-500
TYN009	135.89	Dacite	T41731	2.94		9		76.3	1.33	23.9		8.51	-500
TYN009	339.79	Dacite	T41732	2.31		19		78.1	1.06	21		6.88	-500
BLD89-3	241.38	Dacite	T41733	2.14		8		63.6	3.78	27.9		5.81	
BLD89-3	258.17	Dacite	T41734	5.46		48		-20	2.7	28.6		8.81	
BLD89-3	289.88	Dacite	T41735	2.78		15		67.3	2.1	27.9		6.1	
TYN007	87.9	Dacite	T41736	2.17		16		82.6	1.68	32.6		7.43	

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Basin Lake - Lithochemical Sampling													
Drill Hole	Depth (m)	Unit	Sample N	Ta.N	Th.N	Ti.X	U.N	V.X	W.N	Yb.N	Y.X	Zn.A	Zn.N
TYN006	346.1	Andesite	T41711	1.85	17.5	2527	2.63	162	-2	2.05	24	42	150
TYN006	354.2	Andesite	T41712	3.73	17.5	2786	-2	192	-2	2.36	22	74	186
TYN006	333.8	Andesite	T41713	-1	17.8	2554	-2	187	-2	1.9	23	123	237
TYN007	144.4	Andesite	T41714	3	30.9	3050	-2	213	-2	2.38	31	286	382
TYN008	157.1	Andesite	T41715	-1	24.4	2810	-2	180	-2	1.84	19	100	213
TYN008	175.8	Andesite	T41716	1.55	26.2	2210	2.72	137	-2	1.87	18	92	164
TYN008	204.3	Andesite	T41717	-1	27.8	2410	-2	160	-2	2.23	25	131	200
TYN009	81.08	Dacite	T41729	-1	11.7		-2		-2	3.15		175	297
TYN009	113.4	Dacite	T41730	-1	10.2		-2		-2	3.03		145	260
TYN009	135.89	Dacite	T41731	2.28	10.9		2.14		-2	3.03		86	188
TYN009	339.79	Dacite	T41732	-1	16.5		2.38		-2	2.43		77	144
BLD89-3	241.38	Dacite	T41733	1.86	8.86		-2		-2	2.32		338	467
BLD89-3	258.17	Dacite	T41734	1.97	12.4		-2		-2	3.41		267	413
BLD89-3	289.88	Dacite	T41735	-1	10.7		-2		-2	2.14		75	167
TYN007	87.9	Dacite	T41736	1.4	11.5		-2		-2	2.39		109	217

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Basin Lake - Lithochemical Sampling					
Drill Hole	Depth (m)	Unit	Sample N	Zr.N	Zr.X
TYN006	346.1	Andesite	T41711	-500	135
TYN006	354.2	Andesite	T41712	-500	139
TYN006	333.8	Andesite	T41713	626	156
TYN007	144.4	Andesite	T41714	-500	200
TYN008	157.1	Andesite	T41715	-500	170
TYN008	175.8	Andesite	T41716	-500	159
TYN008	204.3	Andesite	T41717	-500	169
TYN009	81.08	Dacite	T41729	-500	
TYN009	113.4	Dacite	T41730	-500	
TYN009	135.89	Dacite	T41731	-500	
TYN009	339.79	Dacite	T41732	-500	
BLD89-3	241.38	Dacite	T41733		
BLD89-3	258.17	Dacite	T41734		
BLD89-3	289.88	Dacite	T41735		
TYN007	87.9	Dacite	T41736		

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APPENDIX 7

Self Potential Survey

Part A Reconnaissance Survey. November 1994

Part B Follow-up Survey. December 1994

**EXPLORATION****RGC EXPLORATION PTY LTD** ACN 001 426 946
Member of the Renison Goldfields Consolidated GroupPerth Head Office
89 Burswood Road
Post Office Box 322
Victoria Park WA 6100
Australia
Telephone (09) 442 8100
Facsimile (09) 442 8181

TECHNICAL NOTE

BASINSP.WPS

To : Scott Halley

CC. : RGC Exploration Information Centre Reference:

From : Stephen Mudge

Date : 19 December 1994

Subject : Self Potential Survey at Basin Lake, Tasmania

INTRODUCTION

On the 27th November last, Sam Roberts and myself conducted a reconnaissance SP survey across the southern area of the Tyndall (Basin Lake) grid. The aim of the survey was to detect anomalies that may relate to base metal mineralisation. The survey was prompted by the results of a mobile metal ion geochemical survey that detected elevated levels of metal ions in the soils.

The SP survey used a digital voltmeter and a pair of non-polarising porous electrodes and was conducted along lines 352200N, 352600N and 353000N with readings taken at intervals of approximately 10 metres along line.

Ground magnetic surveys were conducted along these lines during the July 1994. No magnetic anomalies were detected.

Billiton Australia also conducted a Controlled Source Audio Magnet Telluric (CSAMT) survey in 1989 along lines 349400N, 350200N, 351800N, 352600N and 353000N. Electromagnetic and electric vectors were measured at intervals of 80 meters along line. The data was computer modelled to produce a electrical model for each line.

SP SURVEY

A large negative response, appearing as a prominent gradient, was detected at the eastern end of each line. The survey lines have not extended far enough east to observe the full form of this response. It is attributed to the Great Lyell Fault however I cannot propose a electrochemical mechanism for the observed anomaly. It may be related to ground water movement and weathering on the fault plane or may be related to the differing chemistry of the two very different lithologies each side of the fault, viz Owen Conglomerate and Comstock Tuff

A anomalous response was detected on line 352200N between about 381100E and 381300E. The anomaly is indicative of a near surface source located in the Comstock Tuff, dipping to the east and centred at about 381225E. The northern extent of the anomaly has been detected on line 352600N at 381250E. The location of the source of the anomaly cannot be established due to the wide 400 metre spacing of the survey lines. A survey along closer spaced lines is clearly warranted to further resolve the anomaly and to precisely locate its source.

The reconnaissance SP survey has been successful in locating an SP anomaly that could be attributed to a sulphide mineralised source located in the Comstock Tuff, near the Great Lyell Fault.

CSAMT SURVEY

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The information I have about the CSAMT survey is in the form of a brief (Final) report from Zonge Organisation, the survey contractor. The report does not give details of the transmitter electrode locations or on the modelling techniques used to derive the electrical models of each line.

The modelling of data from line 352600N shows a conductor at 381200E dipping 70 degrees to the east. This is encouraging as it agrees well with the results of the SP data from the line 400 metres to the south, line 352200N. More CSAMT data is clearly required to properly resolve the anomaly and to locate the conductor, and to delineate its attitude.

The reconnaissance CSAMT survey has been successful in locating a buried conductor in the Comstock Tuff near the Great Lyell Fault. The anomaly could be due to the same source as the SP anomaly.

RECOMMENDATIONS

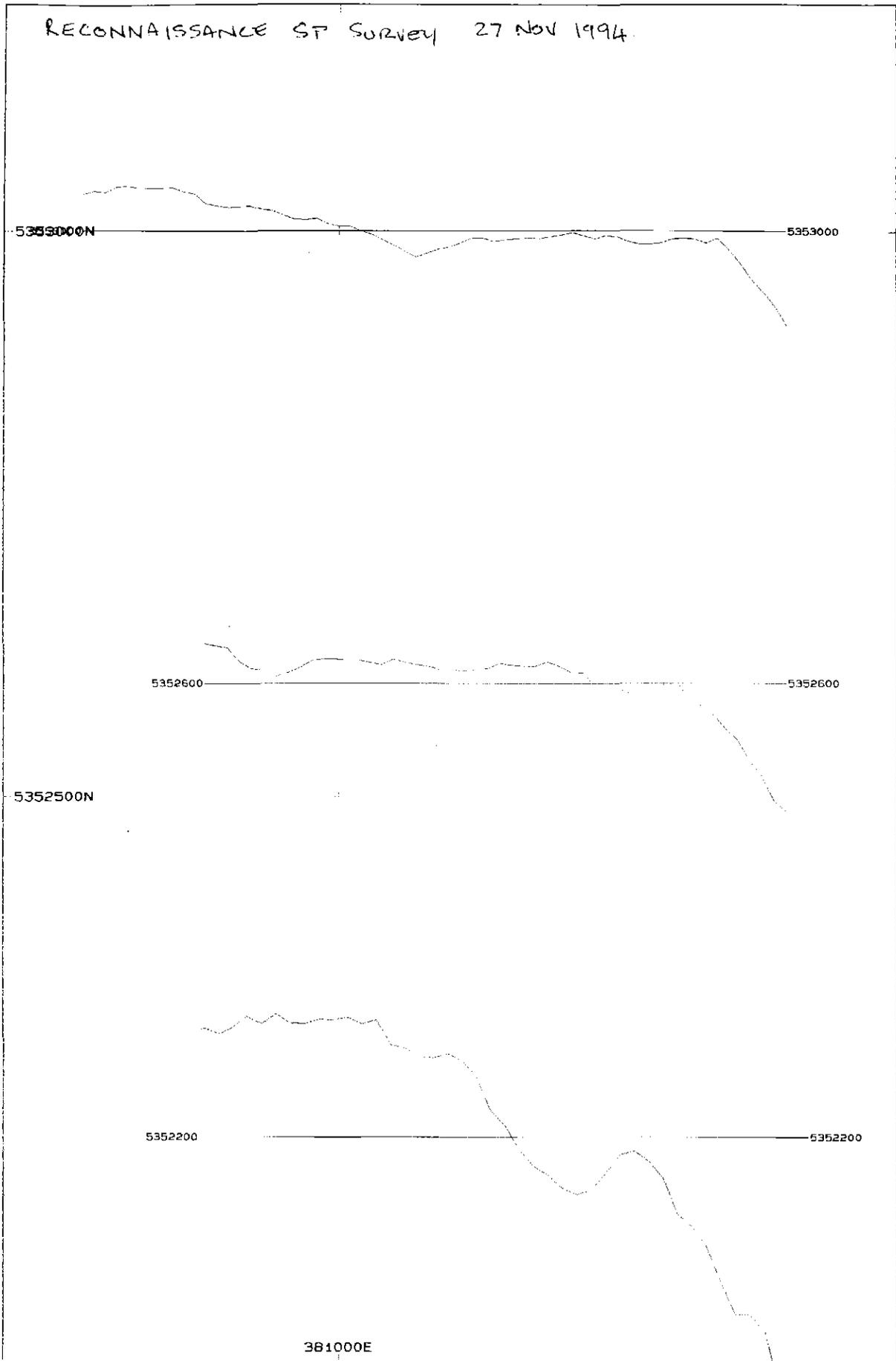
1. Conduct a detailed SP survey of the area to resolve the SP anomaly and model this data to locate the near surface source of the anomaly. The survey should be conducted on lines spaced 100 metres apart from 351800N to 352800N between 381000E and 381500E. Lines 351800N to 352200N inclusive should also be surveyed west to the power line track. Readings should be taken at intervals of 10 metres along each line relative to local measurement base stations located on the base line. The baseline can surveyed at intervals of 50 metres to tie the survey lines so that the data can be presented as contours. Infill lines spaced at intervals of 50 metres will be necessary to resolve the peak of the measured anomaly.
2. UTEM data collected by Aberfoyle over the area ought to be obtained and analysed for evidence of a response associated with the SP and CSAMT anomalies.
3. Conduct a detailed gravity survey along several lines to test the electrical anomalies. The gravity would assist in determining whether the source of the electrical anomalies is a sulphide body or structurally related. Subject to the results of the recommended SP survey, the gravity survey ought to be conducted along lines spaced 100 metres apart from line 351800N to 352400N inclusive between the power line track and 381500E. Readings should be taken at intervals of 50 metres along line and kinematic GPS surveying methods should be used to obtain height and positional information. In the event that a gravity anomaly is detected then further lines spaced 100 metres apart both north and south may be required to fully resolve the anomaly.
4. The survey grid needs to be prepared with lines spaced 100 metres apart and pegged at intervals of 50 metres. The base line, line 381000E, should be pegged at intervals of 50 metres.



Stephen Mudge
Principal Geophysicist

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RECONNAISSANCE ST SURVEY 27 NOV 1994.



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RGC EXPLORATION PTY LTD ACN 001 426 946
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Victoria Park WA 6100
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Facsimile (09) 442 8181

memoph.doc

MEMORANDUM

To : Scott Halley
From : Sam Roberts
Date : 9 March, 1995
Subject : Basin Lake SP Preliminary Interpretation

Basin Lake SP Interpretation

Sam Roberts, Geophysicist

A Self Potential (SP) survey was conducted at the Basin Lake prospect, Tasmania, in February 1995. The survey was designed to identify the strike extent of an SP anomaly detected in a previous RGC survey during december 1994. Basin Lake is located approximately 13 km north of Queenstown on the Anthony Road. The prospect is covered by glacial till.

The prospect was surveyed on east-west lines spaced 100 metres apart and SP readings were taken at 10 metre intervals along the lines.

Three major features can be identified. These are -

- A steep negative gradient to the east. This is almost certainly related to the Henty Fault which lies to the immediate east of the survey boundary.
- A broad negative anomaly in the north west of the grid which may be caused by variations in the thickness of the glacial till overburden. The positive anomaly to the east of the low probably represents the background level.
- An anomaly to the south centred at 81200E 2180N, and striking 30 degrees east. This anomaly has been modelled.

The interpretation and modelling of the southern anomaly has been complicated by the steep gradient associated with the Henty Fault. Plans are supplied showing the profiles and contours of the observed data as well as profiles and contours of the data with the gradient removed. The gradient was determined by fitting a quadratic polynomial to each line using least squares.

A profile perpendicular to the anomaly was taken from the contour map, see the geophysical interpretation plan. The anomaly was modelled using a sheet of electrical dipoles of finite strike length. The results are shown in Figure 1. The sheet was found to be dipping shallowly to the west by 5 degrees. The extent of the sheet is indicated on the geophysical interpretation plan.

An alternative model is shown in Figure 2. This model was computed for survey line 2200N. The regional gradient was removed manually which reduced the size of the positive part of the anomaly. The result is a body of similar dimensions with a dip of 45 degrees to the west. Because the nature of the regional gradient is unknown, it is not possible to determine which model best explains the observed data. The locations of the two alternative anomaly sources are shown on the interpretation plan.

It should be noted that the water saturated glacial till filled sub-surface topography might be the source of the SP anomalies.

This model can easily be tested by drilling however, it is advised that additional electrical surveying and a gravity survey be undertaken at the prospect to determine accurately the dip and depth extent of the geological source.

A further analysis of this data will be made when the recently observed helimag data is available.

Plans included with this report :

1. Profiles of Self Potential
2. Contours of Self Potential
3. Profiles of Residual Self Potential (Gradient Removed)
4. Contours of Residual Self Potential (Gradient Removed)
5. Geophysical Interpretation

Figures included with this report :

1. Profiles of Observed and Computed SP response along profile A-B
2. Profiles of Observed and Computed SP response along profile A'-B'
3. Grid Plan.

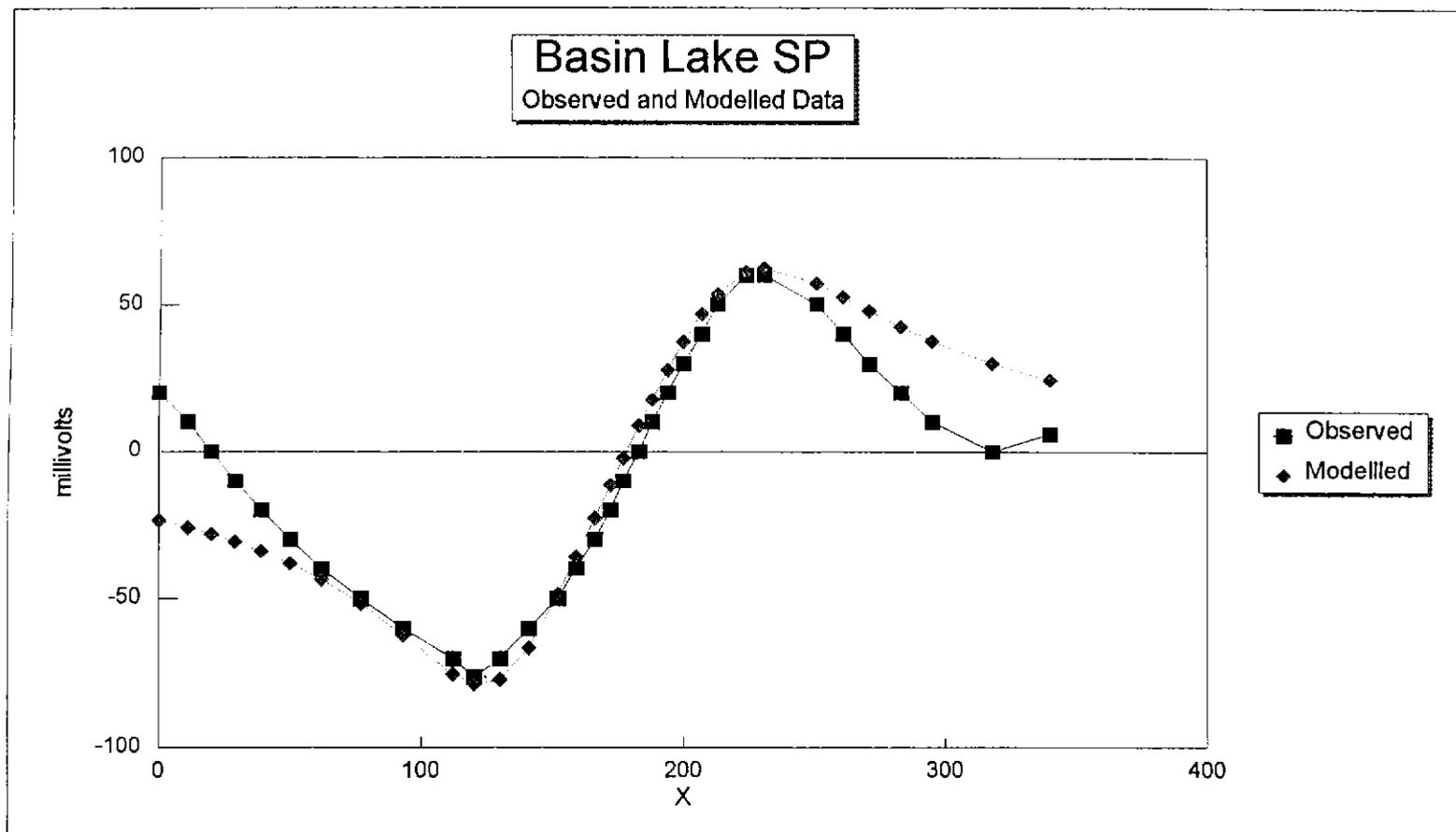


Figure 1 : Profile of observed and modelled SP response measured along profile A - B. The observed response along lines was processed to remove the regional gradient by assuming the gradient could be approximated by a quadratic polynomial. Unique polynomials were calculated and removed from each line. The residual was then contoured and the observed response shown in this profile was interpolated from those contours. The following modelling parameters were used - Strike perpendicular to profile, Depth to top 30 metres, Strike length 300 metres, Down dip length 90 metres, Dip 5 degrees west, X position vertically above up dip dipole 220m E. The geometry of the body is illustrated on the geophysical interpretation plan.

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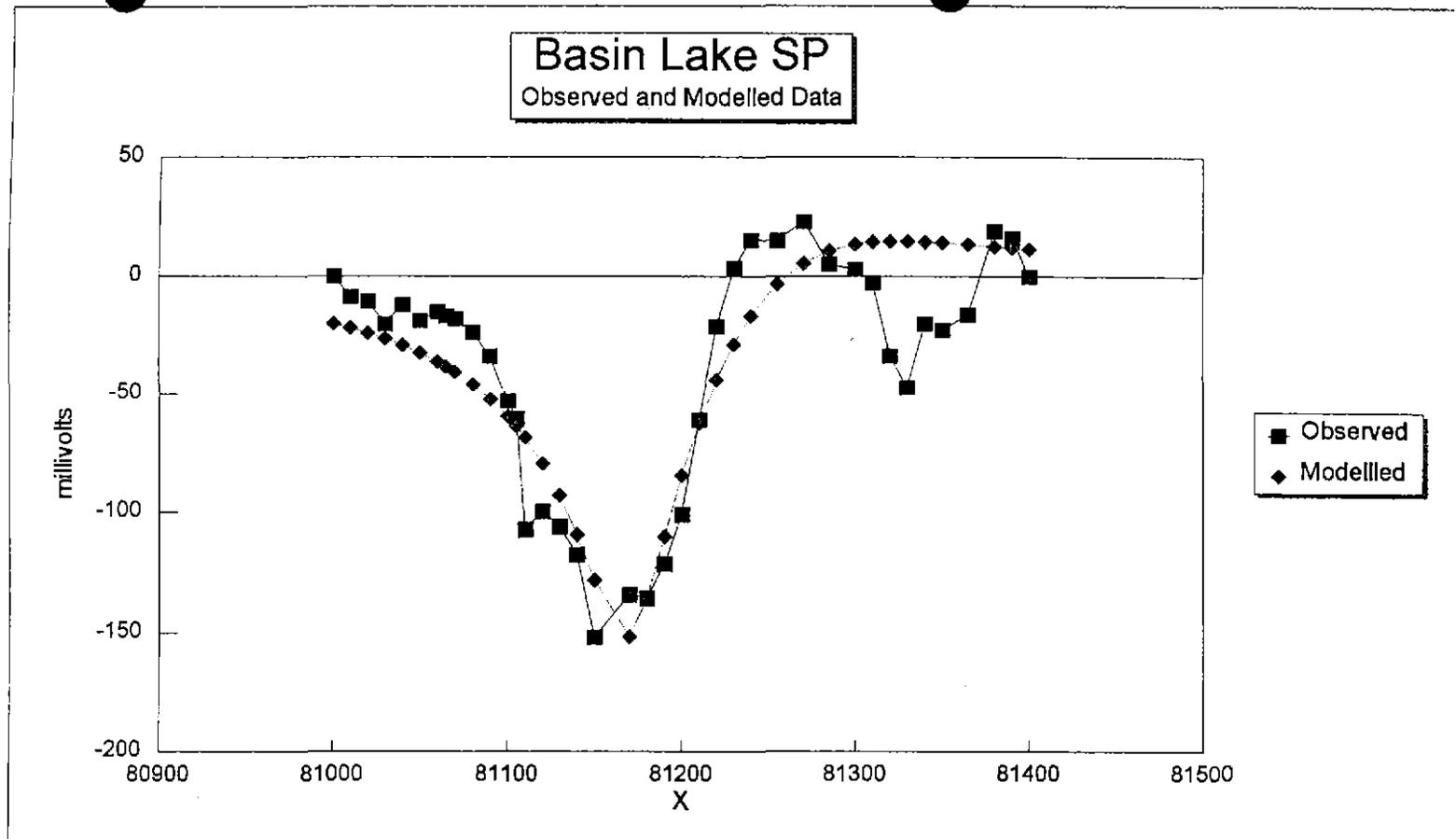


Figure 2 : Profile of observed and modelled SP response measured along profile A' - B'. In this case, the regional gradient was determined by eye and removed in segments from the line 2200N. The following modelling parameters were used - Strike perpendicular to profile, Depth to top 20 metres, Strike length 250 metres, Down dip length 100 metres, Dip 45 degrees west, X position vertically above up dip dipole 81240m E. The geometry of the body is illustrated on the geophysical interpretation plan. Apart from dip, the model agrees well with the model for profile A - B.

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APPENDIX 8

Helimag Survey

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UTS GEOPHYSICS PTY LTD
LOGISTICS REPORT
HELICOPTER GEOPHYSICAL SURVEYS

FOR

RGC EXPLORATION PTY LIMITED
QUEENSTOWN AND RENISON MINE AREA
TASMANIA, AUSTRALIA

20 FEBRUARY 1995

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1 GENERAL SURVEY INFORMATION

In February 1995, UTS Geophysics conducted an airborne magnetometer survey of the Queenstown and Renison Mine area in Tasmania for RGC Exploration Pty Limited. This report summarises the logistics, survey parameters and processing details of the survey.

The survey commenced on 29 January 1995 and was completed on 20 February 1995.

UTS Geophysics provided the described survey for the following mining company:

RGC Exploration Pty Limited
A.C.N. 001 426 946
89 Burswood Road
VIC PARK WA 6100

2 GENERAL FLYING SPECIFICATIONS

Helicopter magnetic surveys were flown over six (6) area(s) in Western Tasmania. The base of operations was Queenstown, Tasmania. Flight specifications for each area are shown in the following table.

PROSPECT NAME	LINE SPACING	LINE DIRECTION	TIE LINE SPACING	TIE LINE DIRECTION	SENSOR HEIGHT	SAMPLE DENSITY	TOTAL LINE KM
Basin Lake	100m	090 - 270	-	-	20-30m	3 - 4 m	456
Garfield	100m	090 - 270	-	-	20-30m	3 - 4 m	320
Renison	50m	048 - 228	-	-	20-30m	3 - 4 m	106
Miners Ridge	100m	090 - 270	-	-	20-30m	3 - 4 m	310
Conglomerate Creek	100m	090 - 270	-	-	20-30m	3 - 4 m	100
Mt Jukes	100m	090 - 270	-	-	20-30m	3 - 4 m	180
Tie lines (200m)	-	-	200m	000 - 180	20-30m	3 - 4 m	25
Tie lines (1000m)	-	-	1000m	000 - 180	20-30m	3 - 4 m	160
TOTAL							1657

The total number of line kilometres of survey data collected over the survey area(s) specified in the above table was 1923.

The specified sensor height for the magnetic samples is as stated in the above table. This sensor height may be varied where topographic relief or laws pertaining to built up areas do not allow this altitude to be maintained, or where the safety of the helicopter and equipment is endangered.

The coordinate boundaries and associated maps for the survey area(s) flown is detailed in Appendix B.

3 EQUIPMENT USED AND SPECIFICATIONS

The list of geophysical and navigation equipment used for the survey is as follows:

- UTS helicopter based stinger.
- Geometrics G-833 Metastable Helium Magnetometer
- Develco Vector Magnetometer.
- UTS data acquisition system, digital recording and output system.
- RMS Aeromagnetic Automatic Digital Compensator (AADC II).
- UTS navigation and acquisition software.
- Bendix King KRA-10 Radar Altimeter.
- Magnavox MX-9212 Navigation GPS.
- Magnavox MX-9012 Differential GPS.
- UTS LCD pilot navigation display.
- UTS Radios and radio modem communication system.
- Diurnal monitoring magnetometer (Geometrics G-856)

3.1 Aircraft Used

- Model: Aerospatiale Squirrel AS 350B
- Registration: VH-HBA
- Operator: Helicopter Resources Pty Ltd

3.2 UTS Helicopter Based Stinger System

The platform used for data acquisition was the UTS developed, helicopter stinger. The stinger is a carbon fibre, forward mounted boom, fixed beneath the helicopter and extending beyond the front of the aircraft cabin.

All magnetic and positional sensors are mounted within the stinger.

3.3 Magnetics

Total magnetic field data readings for the survey were made using a Geometrics G-833 Helium Magnetometer. This precision sensor has the following specifications:

- Model Geometrics G-833 Metastable Helium Magnetometer
- Sample Rate 0.1 Seconds (10Hz)
- Sensitivity 0.01nT
- Operating Range 20,000nT to 95,000nT
- Temperature Range -20°C to +50°C

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3.4 Data Positioning and Flight Navigation

Data positioning and navigation was derived using differential, real-time GPS (Global Positioning System).

A Differential GPS receiver and associated radio data communications were established in the vicinity of the survey area by UTS. Positional corrections from a base reference GPS were transmitted to the aircraft GPS for real-time corrections to the aircraft's GPS derived position.

Differential corrections were recorded at the base station GPS site to allow for post flight correcting of the positions recorded by the aircraft.

The GPS systems used for the survey were:

- | | |
|---|----------------------------------|
| • Aircraft Navigation GPS Model | Magnavox MX9212 |
| • Satellite Channels Available | 12 |
| • Differential Reference GPS Model | Magnavox MX9012 |
| • Satellite Channels Available | 12 |
| • Typical Differentially Corrected Accuracy | 2-3 metres (horizontal accuracy) |

3.5 UTS Data Acquisition System, Digital Recording and Output System

All geophysical and positional information for the survey was recorded using a UTS developed, high speed, precision computer data acquisition system.

Instrument synchronisation, recording and parallax were measured and removed in real-time using the UTS data acquisition system.

The information recorded for each one tenth of a second (0.1 second) interval was:

- scan time (Local and UTC time)
- one total field magnetometer reading
- one vector magnetometer reading (X,Y,Z)
- one radar altimeter reading
- one WGS84 GPS position
- one AMG84 metric grid coordinate
- one GPS geodetic height reading
- other GPS information including dilution of position, signal information, satellites tracked and pseudo-range information

Survey flight data was down loaded onto magnetic tape.

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3.6 Aircraft Compensation

At the start of the survey, the system was calibrated for reduction of heading error.

The heading and manoeuvre effect of the aircraft on the magnetic data was removed using an RMS Automatic Airborne Digital Compensator (AADC). UTS static proprietary compensation techniques were also employed to further refine the removal of the heading effect of the aircraft

A three axis fluxgate magnetometer was used to record the magnetic field in the X,Y and Z directions. These recorded values were used by the RMS AADC compensator to remove the heading effect of the helicopter.

3.7 UTS Navigation System

All data positioning and pilot navigation was controlled through advanced UTS navigation software.

Accurate pilot navigation was achieved through computer controlled aircraft flight instruments and guidance displays located in the cockpit of the aircraft.

GPS derived positions were used to provide aircraft navigation and position information.

3.8 Altitude Readings

Accurate height above the terrain was measured using a Bendix King radar altimeter installed in the aircraft. The height of each magnetic reading was taken from the radar altimeter and stored by the acquisition system.

- Model Bendix King KRA-10 radar altimeter
- Sample Rate 0.1 Seconds (10Hz)

323159

3.9 Diurnal Monitoring Magnetometer

A base station magnetometer was located in a low gradient area beyond the region of influence by any man made interference to monitor diurnal variations during the survey.

The specifications for the magnetometer used are as follows:

- Model Geometrics G-856
- Resolution 0.1 nT
- Sample Interval 10 seconds (0.1Hz)
- Operating Range 20,000nT to 90,000nT
- Temperature -20°C to +50°C

323160

4 SURVEY LOGISTICS

The base location used for operating the aircraft and in-field processing of the survey data was Queenstown, Tasmania.

4.1 Survey Flight Summary

The following table summarises the flight logs provided by the operator for the survey areas flown.

Flight Date	Area No	Flight No	Area Name	Line Km Flown	Lines Flown	Weather Conditions
29 Jan 95	-	-				Mobilisation & Setup
30 Jan 95	4	1	Miners Ridge	103	18	Survey Production & Setup
31 Jan 95	1	1	Basin Lake	226	51	Survey Production
	4	2	Miners Ridge	224	35	Survey Production
1 Feb 95	2	1	Garfield	206	51	Survey Production
	2	2	Garfield	170	40	Survey Production
2 Feb 95	5	1	Conglomerate	47	12	Survey Production
	1	2	Basin Lake	174	51	Survey Production
3 Feb 95	-	-				Bad weather / Standby
4 Feb 95	5	2	Conglomerate	64	28	Survey Production
	6	1	Mt Jukes	68	13	Survey Production
	6	2	Mt Jukes	12	3	Survey Production
	6	3	Mt Jukes	26	5	Survey Production
	T1	1	Tie Lines @ 1000m	166	7	Survey Production
5 Feb 95	-	-				Bad weather / Standby
6 Feb 95	6	4	Mt Jukes	-	-	No lines flown / bad weather
7 Feb 95	3	1	Renison	114	50	Survey Production
	3	T1	Rension	7	3	Survey Production
9 Feb 95	-	-				Bad weather / Standby
11 Feb 95	1	3	Basin Lake	112	72	Survey Production
20 Feb 95	T2	1	Tie lines @ 250m	204	21	Survey Production

4.2 Differential GPS Station Locations

The following table contains the locations used for the differential GPS reference station.

Area Name	Period	Trig Station Name	Latitude	Longitude
Renison	7 Feb 95	Dreadnaught Hill	S 41° 47' 53.9537"	E 145° 26' 10.8539"
All other areas	29 Jan - 20 Feb 95	Westcoaster Motor Inn	S 42° 04' 35.1522"	E 145° 33' 31.3950"

323162

5 Processed Products Supplied

5.1 Data Processing and Levelling

The raw survey data was loaded from the field tapes and levelled in the following manner to produce preliminary maps:

- Base station magnetometer diurnal levelling
- Tie line levelling

The preliminary levelled data was then plotted to produce the following verification maps:

- Total magnetic intensity contour maps
- Flight path maps

5.2 Final Geophysical Products

A levelled located data tape, containing all traverse lines and tie lines was recorded on the following media:

- EXABYTE TAR format tape

The format for the located data tape is described in Appendix A.

The following geophysical maps and images were supplied:

- None supplied

323163

For further information concerning the survey flown, please contact the following office:

Head Office Address:

UTS Geophysics Pty Ltd
Valentine Road
Perth Airport
REDCLIFFE WA 6104

Tel: +61 9 479 4232
Fax: +61 9 479 1008

Postal Address:

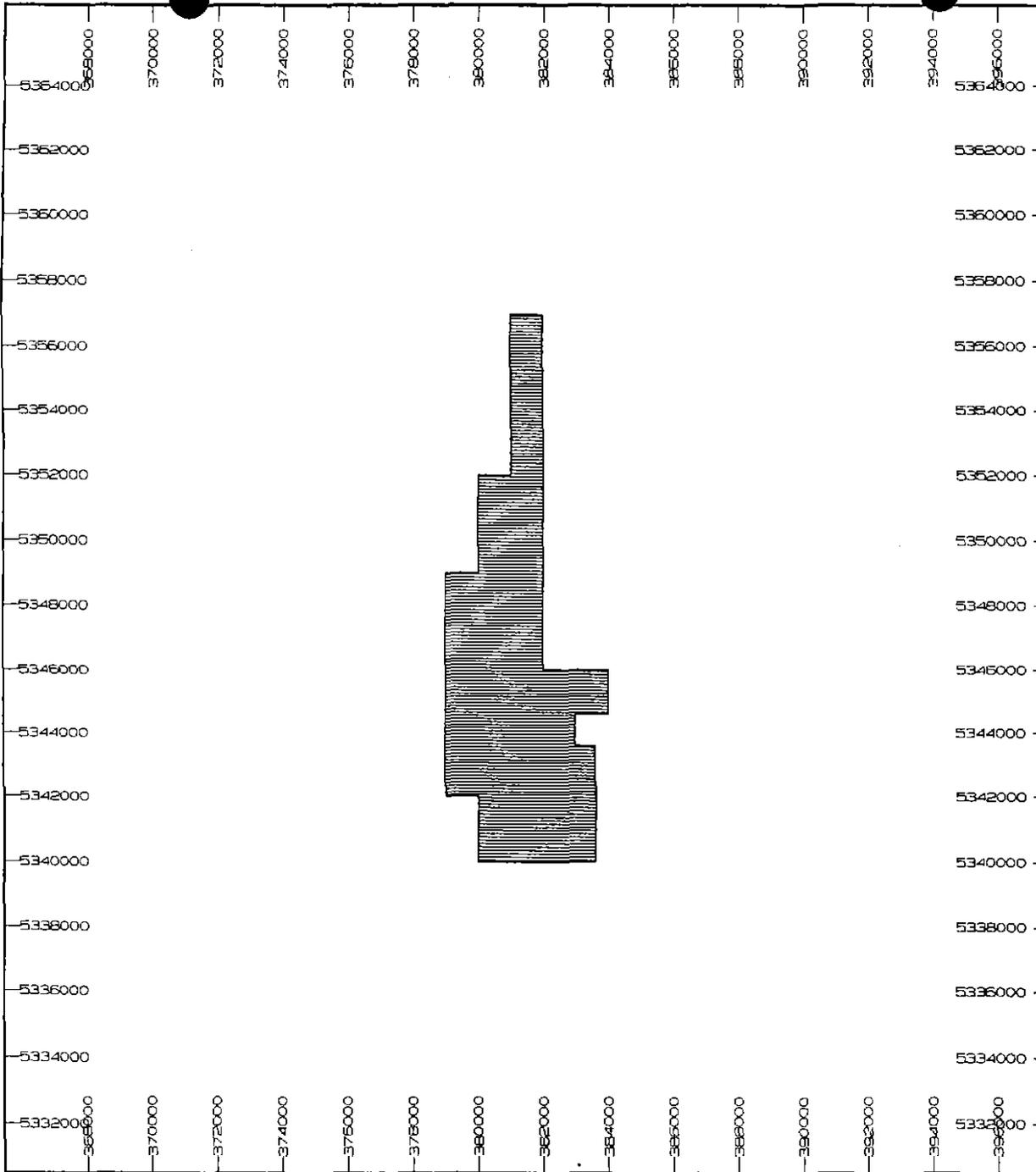
P.O. Box 126
BELMONT WA 6104

323164

APPENDIX A: LOCATED DATA TAPE FORMAT

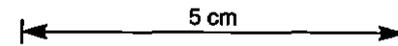
323165

APPENDIX B: SURVEY AREA MAPS



JOB DETAILS

Job Number: ---
 Product: Helimag Survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 100 m
 Line Direction: 090 - 270 deg



MAP DETAILS

Projection: AMGB4
 Sheet 1 of 1
 Scale 1: 200000

Grid North



Drawn: //
 Checked: //
 Approved: //

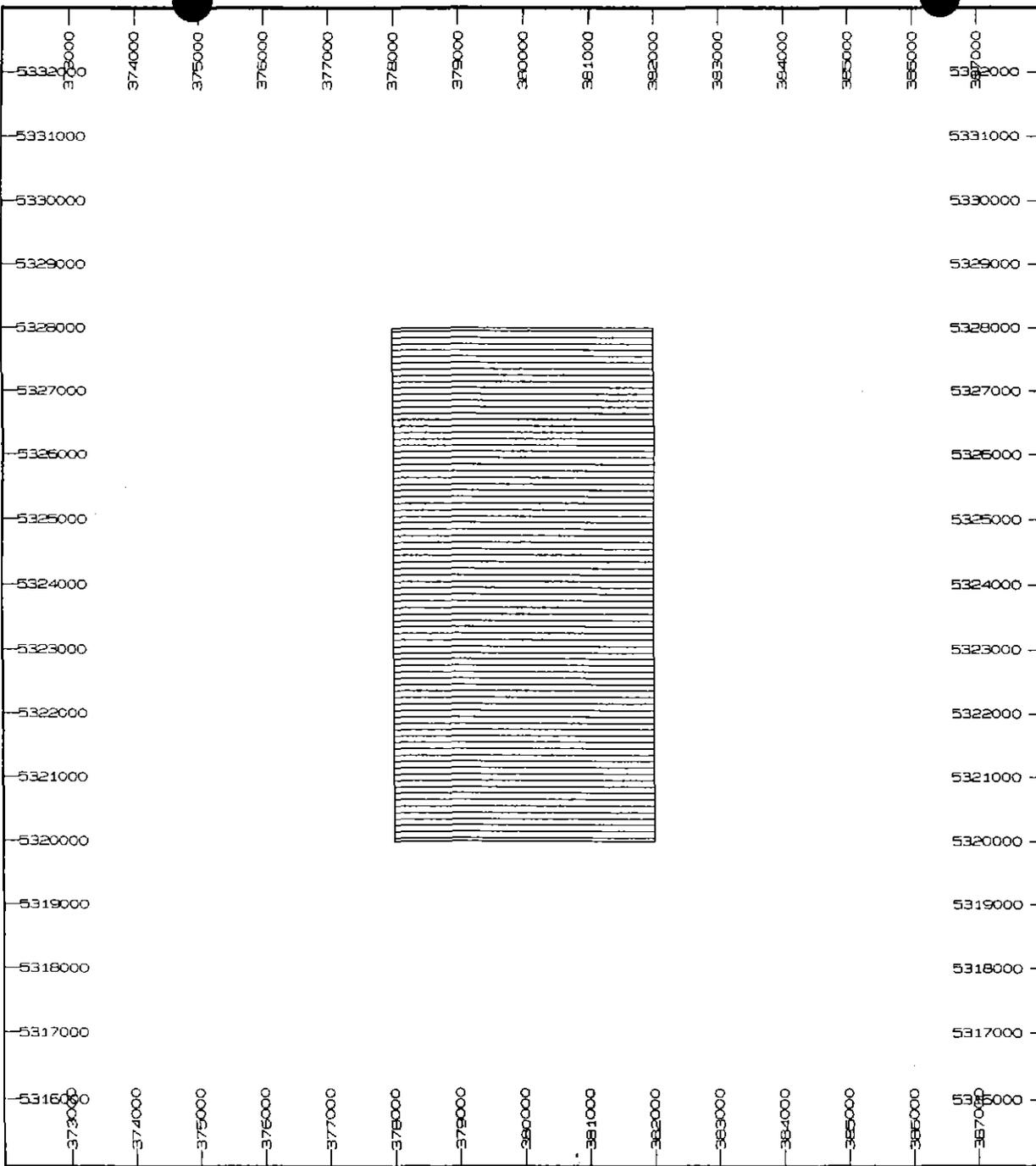
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

BASIN LAKE

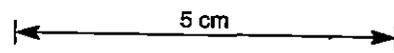
Flown by: U.T.S.
 Job: Basin Lake
 Flight Date:

323166



JOB DETAILS

Job Number: --
 Product: Helimag Survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 100 m
 Line Direction: 090 - 270 deg



MAP DETAILS

Projection: AMG84
 Sheet 1 of 1
 Scale 1: 100000



Drawn: //
 Checked: //
 Approved: //

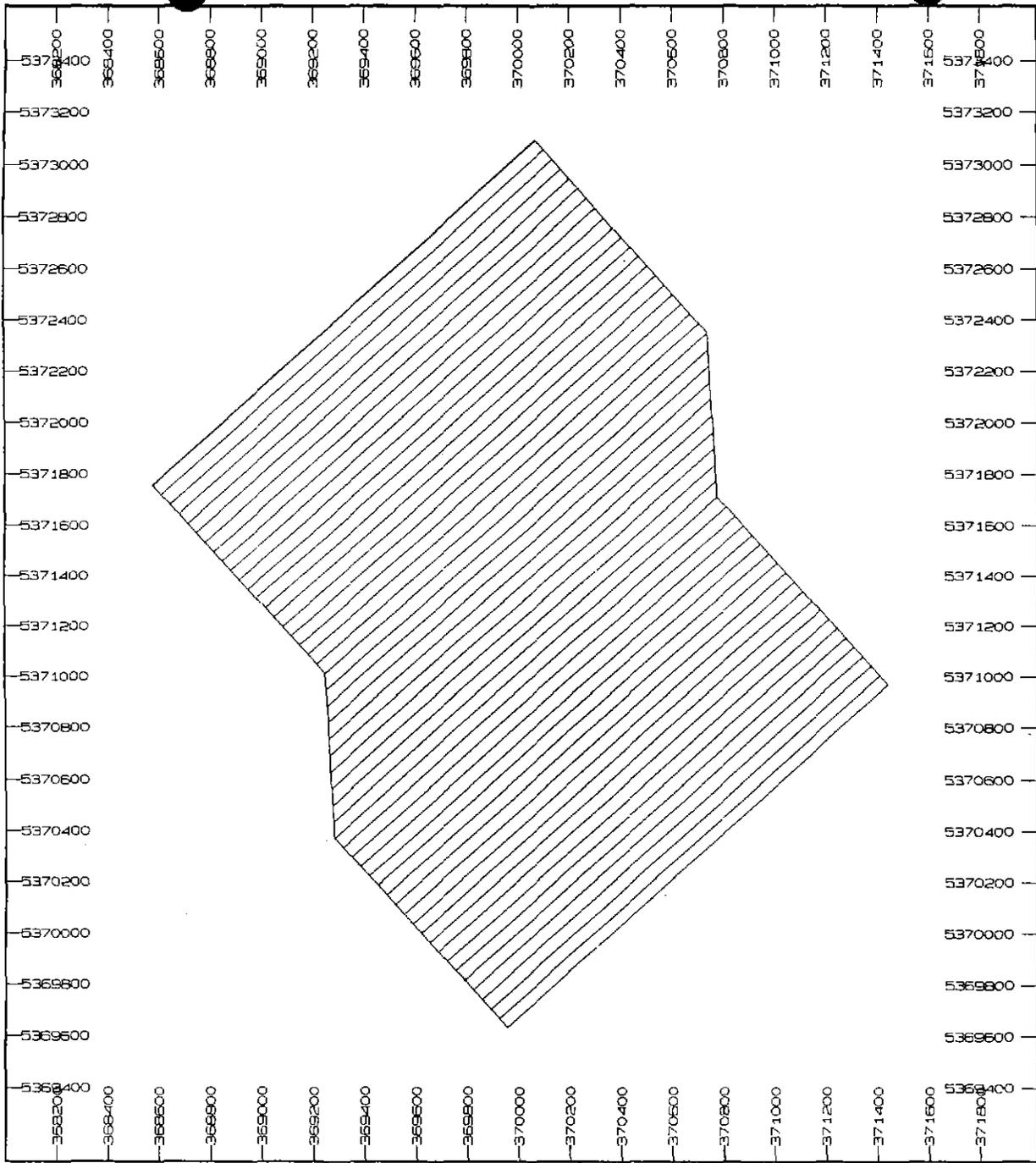
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

GARFIELD

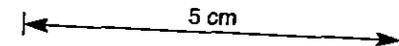
Flown by: U.T.S.
 Job: Garfield
 Flight Date:

323167



JOB DETAILS

Job Number: _____
 Product: Helimag Survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 50 m
 Line Direction: 048 - 228 deg



MAP DETAILS

Projection: AMG84
 Sheet 1 of 1
 Scale 1: 25000



Grid North



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 Approved: //

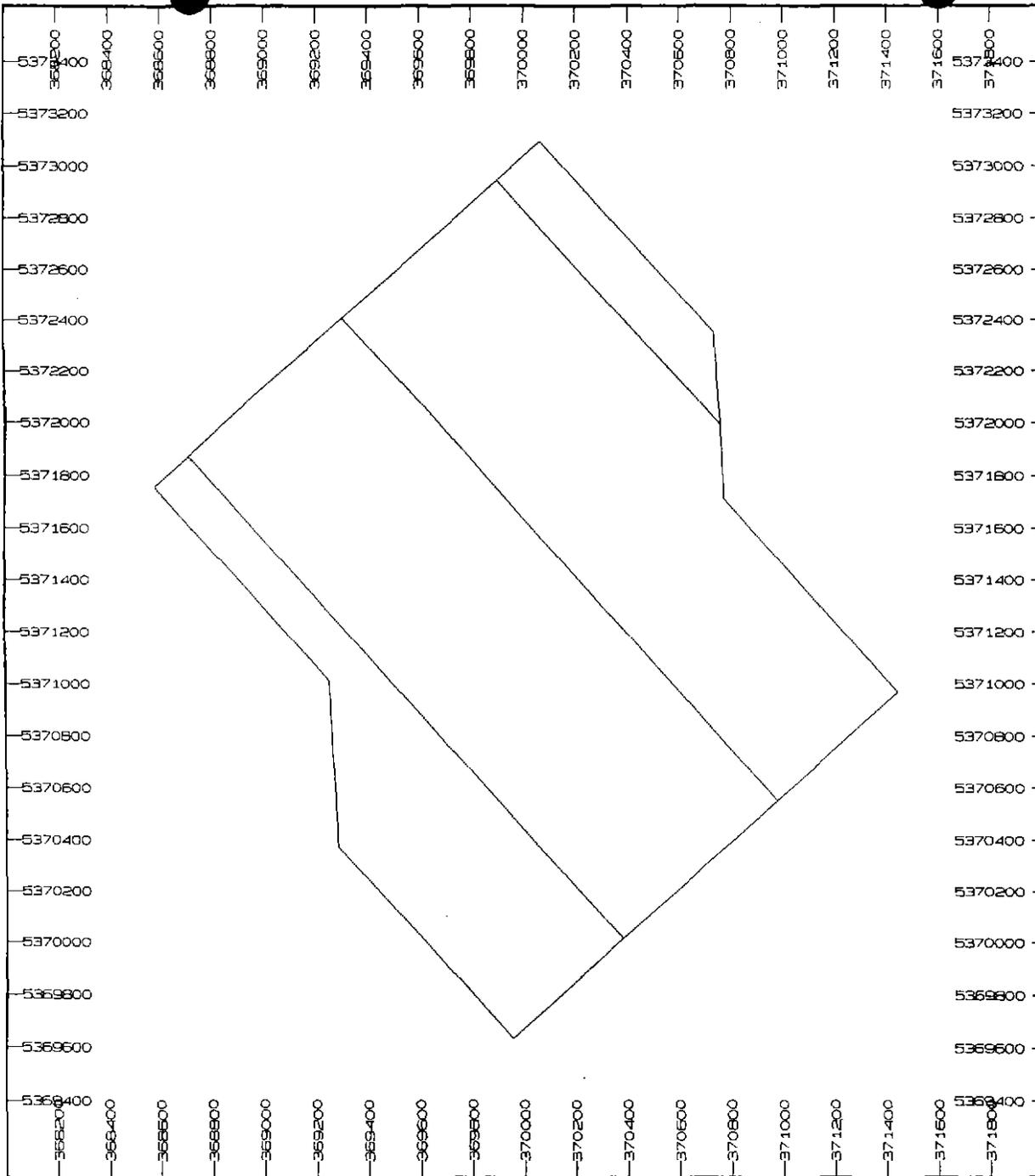
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

RENISON

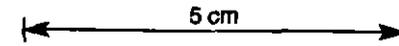
Flown by: U.T.S.
 Job: Renison
 Flight Date:

323168



JOB DETAILS

Job Number: -
 Product: Helimag Survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 800 m
 Line Direction: 138 - 318 deg



MAP DETAILS

Projection: AMGB4
 Sheet 1 of 1
 Scale 1: 25000

Grid North



Drawn: //
 Checked: //
 Approved: //

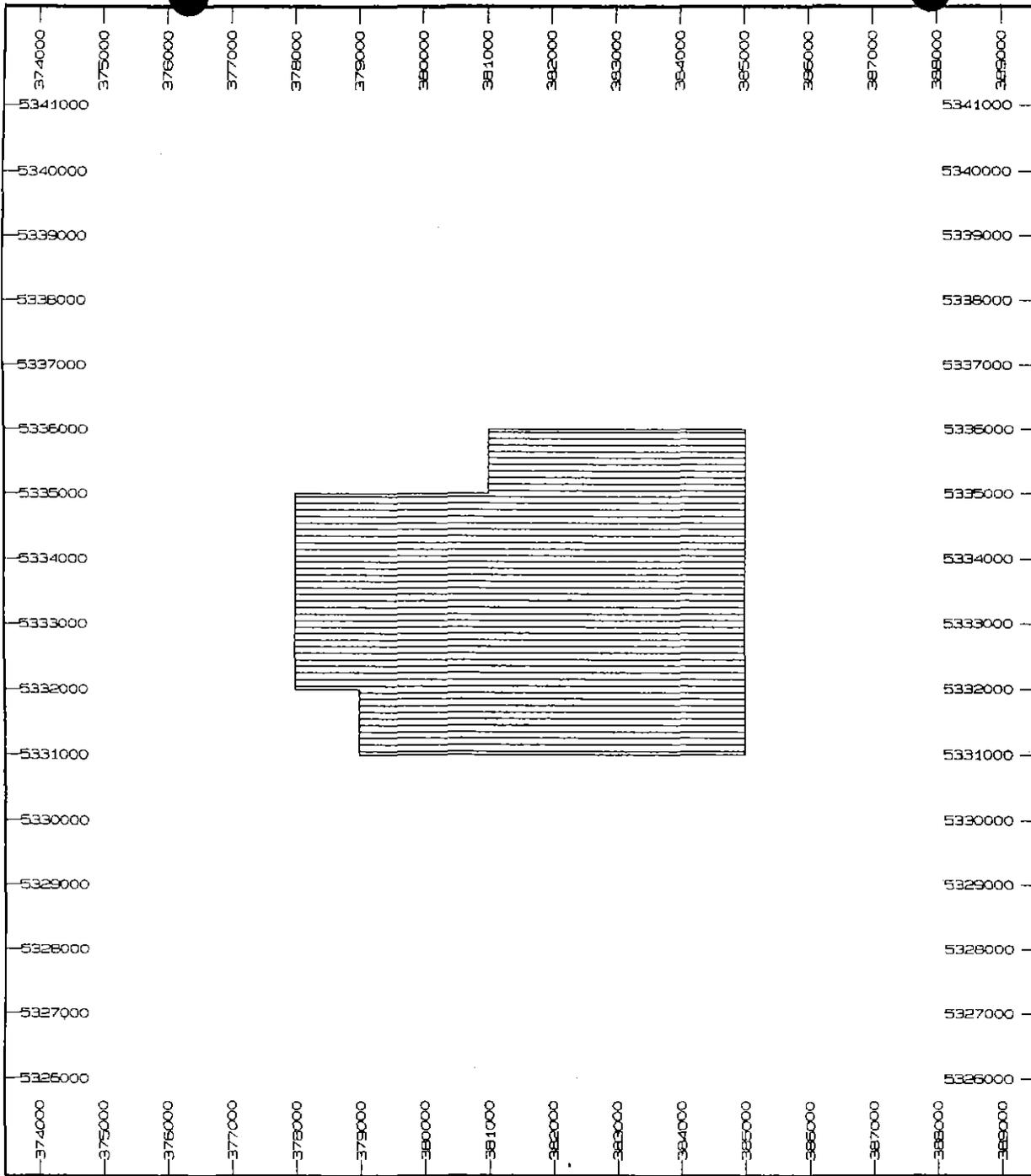
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

RENISON - TIE LINES

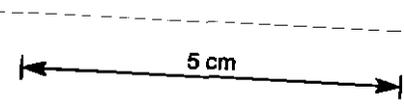
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 Job: Renison (Tie Lines)
 Flight Date:

691873



JOB DETAILS

Job Number: ---
 Product: ---
 Aircraft Type: ---
 Aircraft Rego: ---
 Pilot: ---
 Operator: UTS
 Line Spacing: 100 m
 Line Direction: 090 - 270 deg



MAP DETAILS

Projection: AMGB4
 Sheet 1 of 1
 Scale 1: 100000



Drawn: //
 Checked: //
 Approved: //

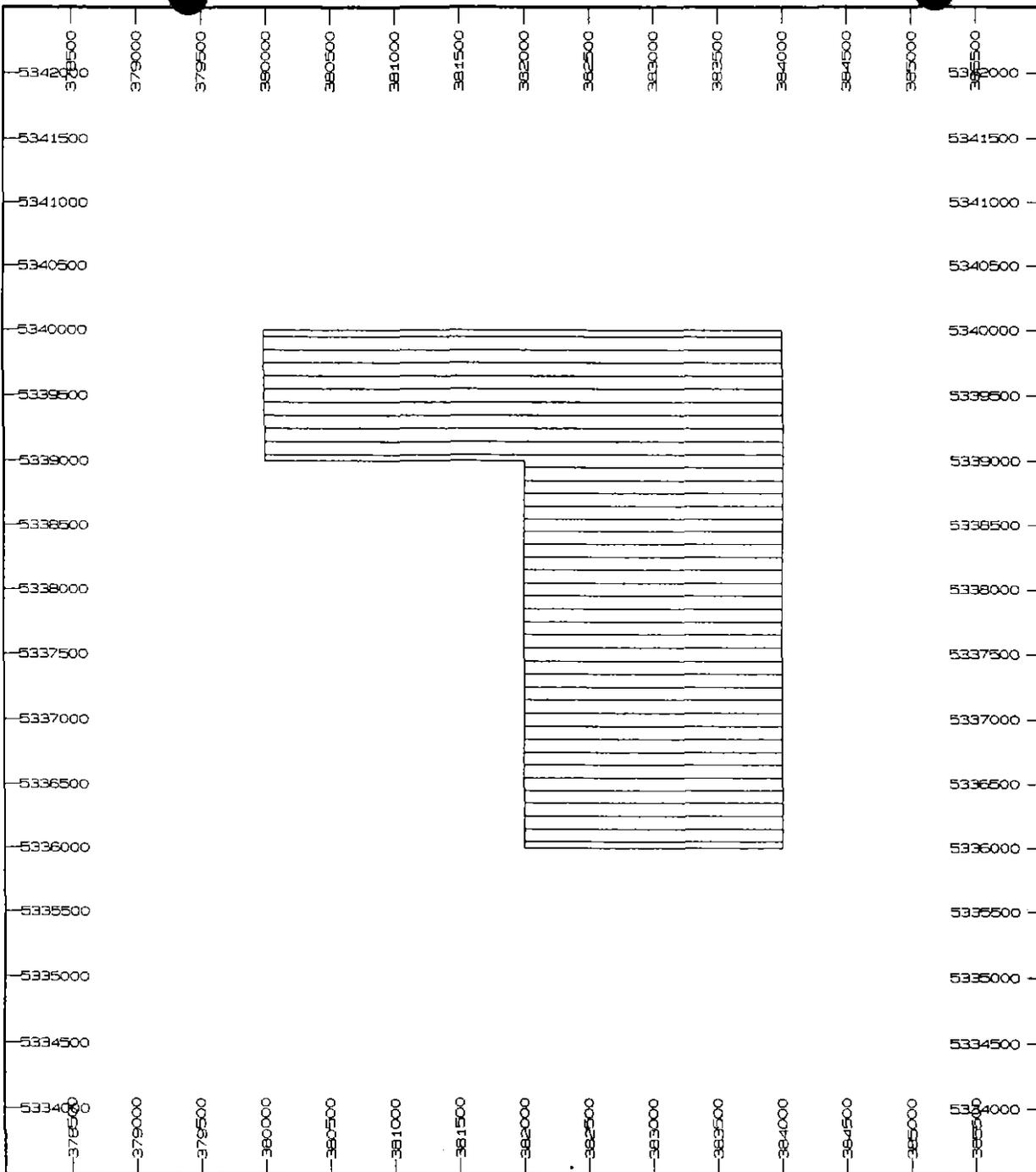
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

MINERS RIDGE

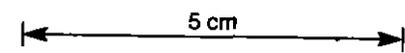
Flown by: U.T.S.
 Job: Miners Ridge
 Flight Date:

021000



JOB DETAILS

Job Number: --
 Product: Helimag Survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 100 m
 Line Direction: 090 - 270 deg



MAP DETAILS

Projection: AMGB4
 Sheet 1 of 1
 Scale 1: 50000



Drawn: //
 Checked: //
 Approved: //

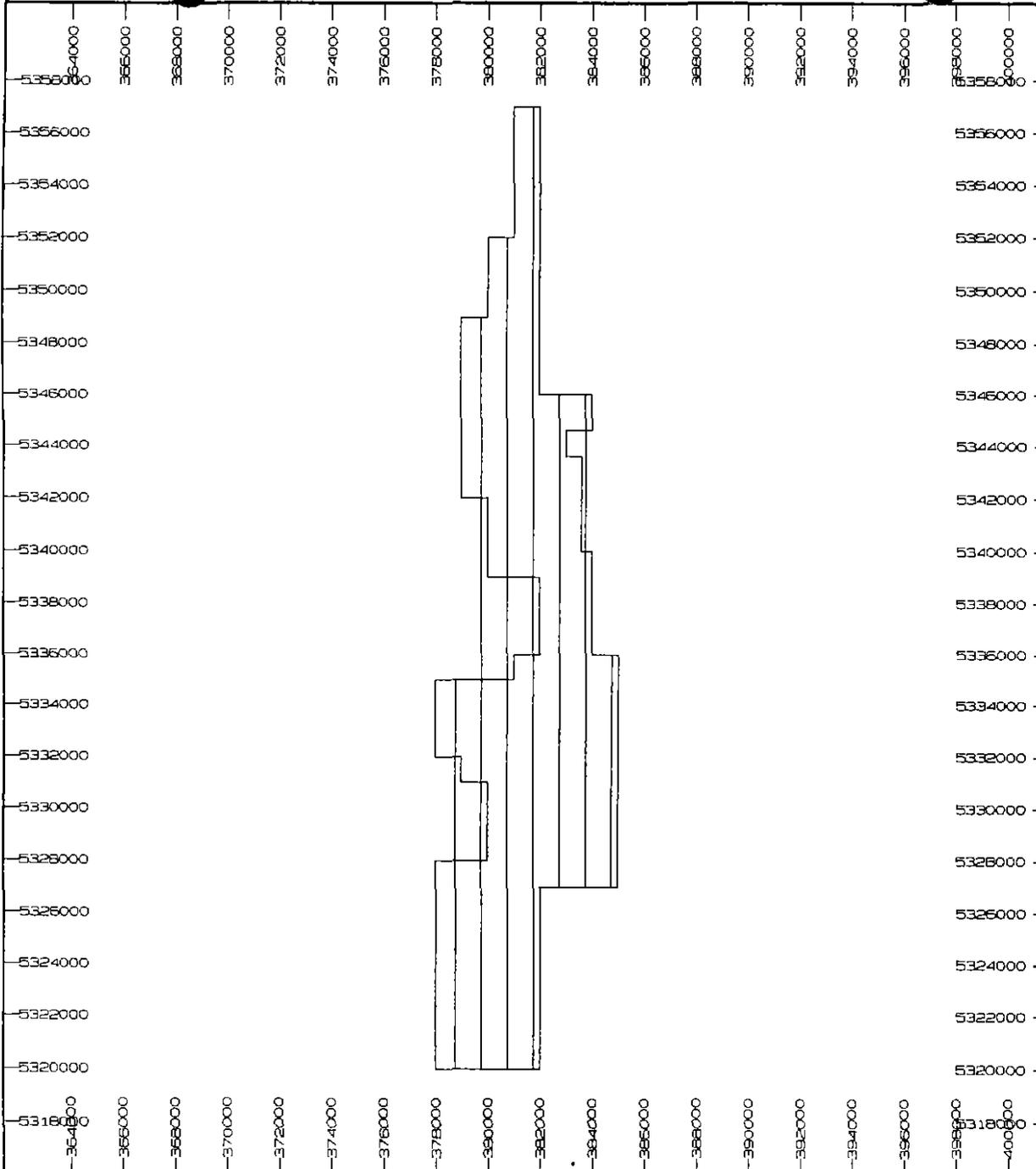
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

CONGLOMERATE *CRK*

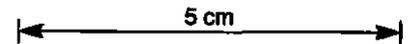
Flown by: U.T.S.
 Job: Conglomerate
 Flight Date:

328173



JOB DETAILS

Job Number: -
 Product: Helimag survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 1000 m
 Line Direction: 000 - 180 deg



MAP DETAILS

Projection: AMG84
 Sheet 1 of 1
 Scale 1: 250000



Drawn: //
 Checked: //
 Approved: //

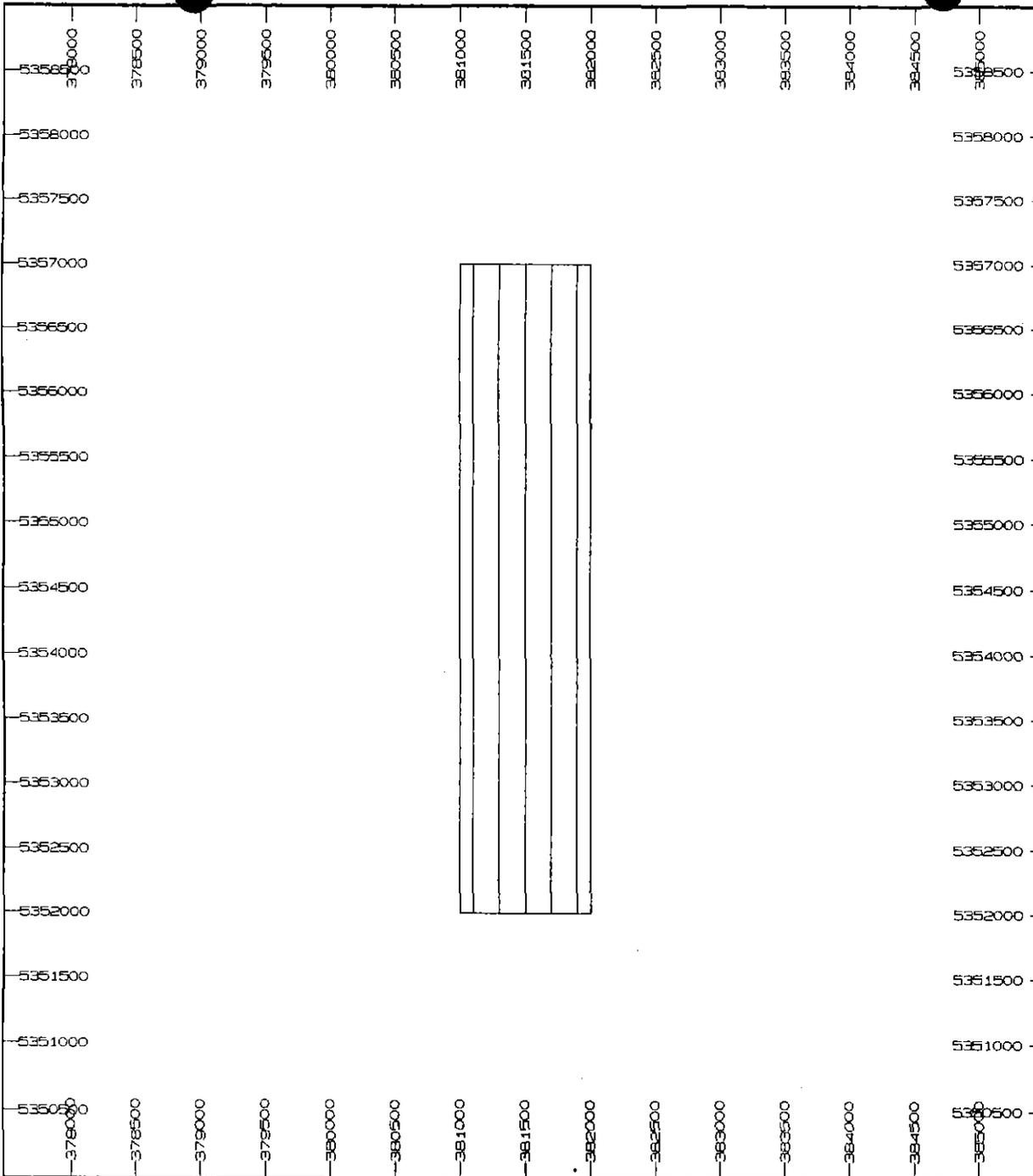
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

TIE LINES (AREAS 1 - 6)

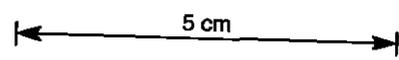
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 Flight Date:

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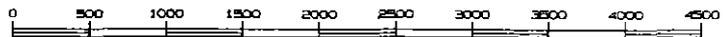
JOB DETAILS

Job Number: -
 Product: Helimag survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 200 m
 Line Direction: 180 - 000 deg



MAP DETAILS

Projection: AMG84
 Sheet 1 of 1
 Scale 1: 50000



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 Approved: // //

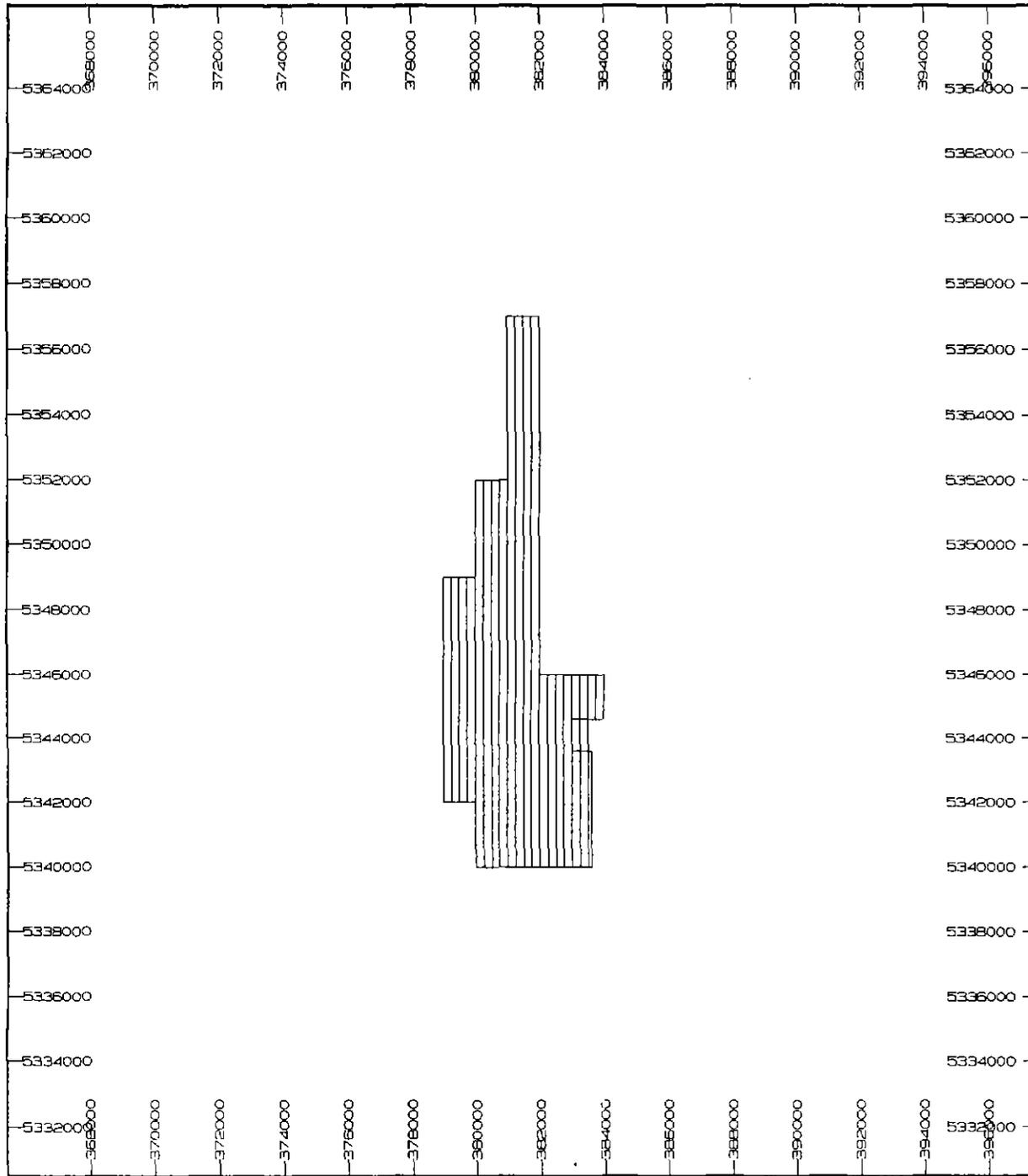
Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

TIE LINES (200 metres)

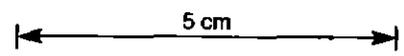
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 Job: Tie Lines (200 metres)
 Flight Date:

328174



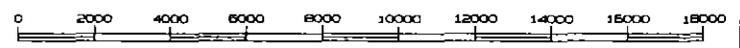
JOB DETAILS

Job Number: -
 Product: Helimag Survey
 Aircraft Type:
 Aircraft Rego:
 Pilot:
 Operator: UTS
 Line Spacing: 250 m
 Line Direction: 000 - 180 deg



MAP DETAILS

Projection: AMG84
 Sheet 1 of 1
 Scale 1:200000



Drawn: //
 Checked: //
 Approved: //

Plotted by Universal Tracking Systems Flight Block Planner

RGC EXPLORATION PTY LIMITED

TIE LINES

Flown by: U.T.S.
 Job: Tie Lines
 Flight Date:

APPENDIX 9

DHEM Survey



DOWNHOLE TEM SURVEYS

BASIN LAKE, PENGHANA

A REPORT ON

DOWNHOLE THREE COMPONENT TEM SURVEYS

CONDUCTED AT

BASIN LAKE AND PENGHANA

Vol 1 of 1

HELD BY:

MANAGER & OPERATOR:

AUTHOR(s): Sam Roberts

5 December, 1995

PROSPECTS: Basin Lake, Tyndall Range, Penghana

MAP SHEETS:

1:250,000:

1:100,000:

GEOGRAPHIC COORDS

Min East:

Max East:

Min North:

Max North:

COMMODITY(s):

KEY WORDS:

Distribution:

- o RGC Exploration Information Centre Reference:**
- o RGC Exploration Zeehan**
- o**

Introduction

323177

In October - November 1995 three component downhole transient electromagnetic (TEM) surveys were conducted at the Basin Lake and Penghana prospects. The prospects are located on the West coast of Tasmania. The Basin Lake prospect is located in the Tyndall range approximately fifteen kilometres north of Queenstown. The Penghana prospect is located approximately five kilometres north west of Queenstown.

The surveys were conducted by Outer-Rim Exploration Services using a Crone Pulse EM system. Each drill hole was surveyed with a Z component and XY component probes. This system allows accurate directional information to be determined for a target with the use of only one transmitter loop and as such is ideal for Tasmania where loop set-up costs are high.

The probes measure the X, Y and Z components of the EM signal. The Z (axial) component is in the direction of the drill hole. The X and Y components are corrected for the rotation of the probe so that they are both orthogonal to the drill hole. The rotation correction was performed using an orientation device.

The downhole TEM system has the capability to detect targets as far away as 200 metres from the drill hole and to depths of 2500 metres.

Four holes were surveyed at Basin Lake and one hole was surveyed at Penghana. Each hole was surveyed using a single transmitter loop. X, Y and Z components were recorded at 10 metre intervals and 5 metre intervals over specific areas of interest. The transmitter loop locations were designed to use topography to maximise the amplitude of the coupling of the primary signal, down-hole, to a dipping conductor.

Hole TYN008 at Basin Lake was found to be blocked at 30 metres depth and consequently was not surveyed.

Plots of all results at a variety of scales are provided.

Results

No anomalies of interest were detected. The data was affected by power line noise which expressed itself in the late time channels as random noise fluctuations.

Hole TYN009

Collar : 381153E 5356651N

Loop : 400m X 400m : 380900E - 381300E , 5355400N - 5355800N

The hole was surveyed to a depth of 470 metres. A 400 X 400 metre transmitter loop was used. Two power lines traverse the loop in a north-south direction.

No anomalies were detected.

Hole TYN010

Collar : 380810E 5351947N

Loop : 400m X 360m : 380500E - 380900E , 5351700N - 5352060N

The hole was surveyed to a depth of 215 metres. A 400 X 360 metre transmitter loop was used. The loop is adjacent to power lines.

No anomalies were detected.

Hole TYN011

Collar : 381001E 5353347N

Loop : 400m X 500m : 380700E - 381100E , 5353200N - 5353700N

The hole was surveyed to a depth of 488 metres. A 400 X 500 metre transmitter loop was used. Three power lines traverse the loop in a north-south direction.

An anomaly was detected between 45 and 105 metres. It has been interpreted as an in-hole response and is attributed to black pyritic siltstone occurring at that depth. No other anomalies of interest were detected.

Hole TYN012

Collar : 380917E 5353320N

Loop : 400m X 400m : 380600E - 381000E , 5352060N - 5352460N

The hole was surveyed to a depth of 360 metres. A 400 X 400 metre transmitter loop was used. Three power lines traverse the loop in a north-south direction.

No anomalies were detected.

Hole PEN001

Collar : 379303E 5344222N

Loop : 400m X 400m : 379200E - 379600E , 5344000N - 5344400N

The hole was surveyed to a depth of 269 metres. A 400 X 400 metre transmitter loop was used. Four power lines traverse the loop in a east-west direction.

No anomalies were detected.

Conclusions

1. No anomalies of interest were detected in any of the Basin Lake drill holes or the Penghana drill hole.
2. All surveys were affected by power line noise which affected the late channels.
3. No follow-up TEM surveying is recommended.

References

Outer Rim Exploration Services, "Basin Lake and Penghana" December 1995. RGC Exploration Internal Report Vols 1&2.

PLOTS

CONTENTS

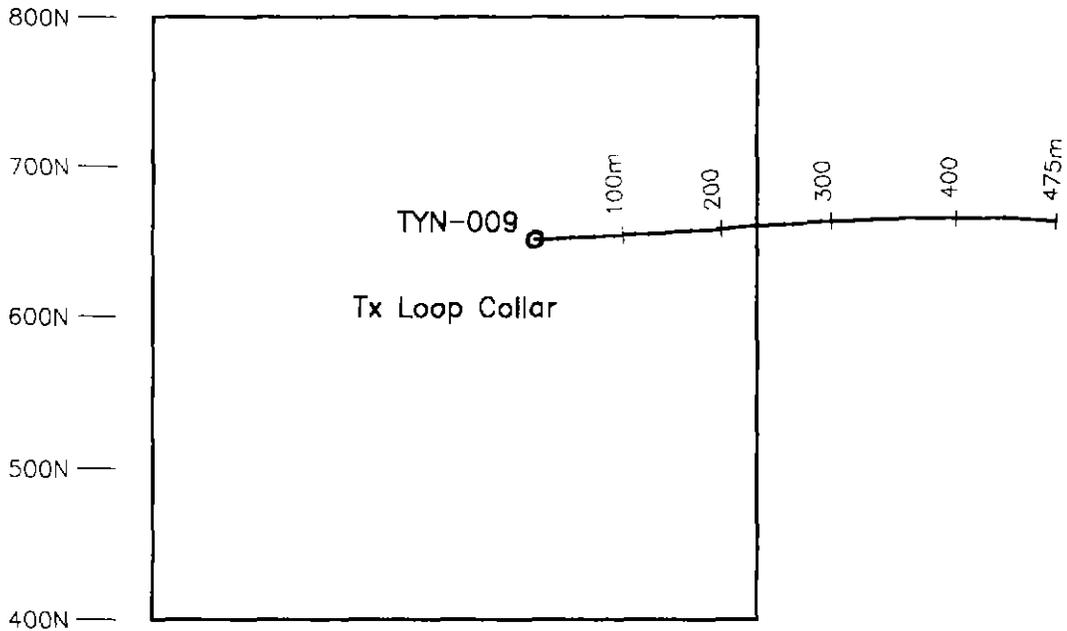
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8			X	- Log plot	1:2500
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10				- Linear, Ch10-15, 1:10	1:2500
11				- Linear, Ch15-20, 1:2	1:2500
12			Y	- Log plot	1:2500
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26				- Linear, Ch10-15, 1:10	1:2000
27				- Linear, Ch15-20, 1:2	1:2000
28			Y	- Log plot	1:2000
29				- Linear, Ch1-10, 1:500	1:2000
30				- Linear, Ch10-15, 1:10	1:2000
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38				- Linear, Ch10-15, 1:10	1:2500
39				- Linear, Ch15-20, 1:2	1:2500
40			X	- Log plot	1:2500
41				- Linear, Ch1-10, 1:500	1:2500
42				- Linear, Ch10-15, 1:10	1:2500
43				- Linear, Ch15-20, 1:2	1:2500
44			Y	- Log plot	1:2500
45				- Linear, Ch1-10, 1:500	1:2500

CONTENTS

Plan No.	Plan Type	ID.	Description	Scale	
46	Profile	TYN-011	- Linear, Ch10-15, 1:10	1:2500	
47			- Linear, Ch15-20, 1:2	1:2500	
48			Total Field plot	1:2500	
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54			- Linear, Ch10-15, 1:10	1:2000	
55			- Linear, Ch15-20, 1:2	1:2000	
56		X	- Log plot	1:2000	
57			- Linear, Ch1-10, 1:500	1:2000	
58			- Linear, Ch10-15, 1:10	1:2000	
59			- Linear, Ch15-20, 1:2	1:2000	
60		Y	- Log plot	1:2000	
61			- Linear, Ch1-10, 1:500	1:2000	
62			- Linear, Ch10-15, 1:10	1:2000	
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↑
OMITTED
↓

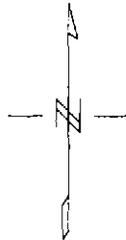
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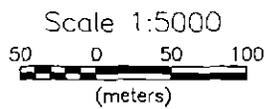
Tx Loop Collar

TYN-009

100m 200 300 400 475m

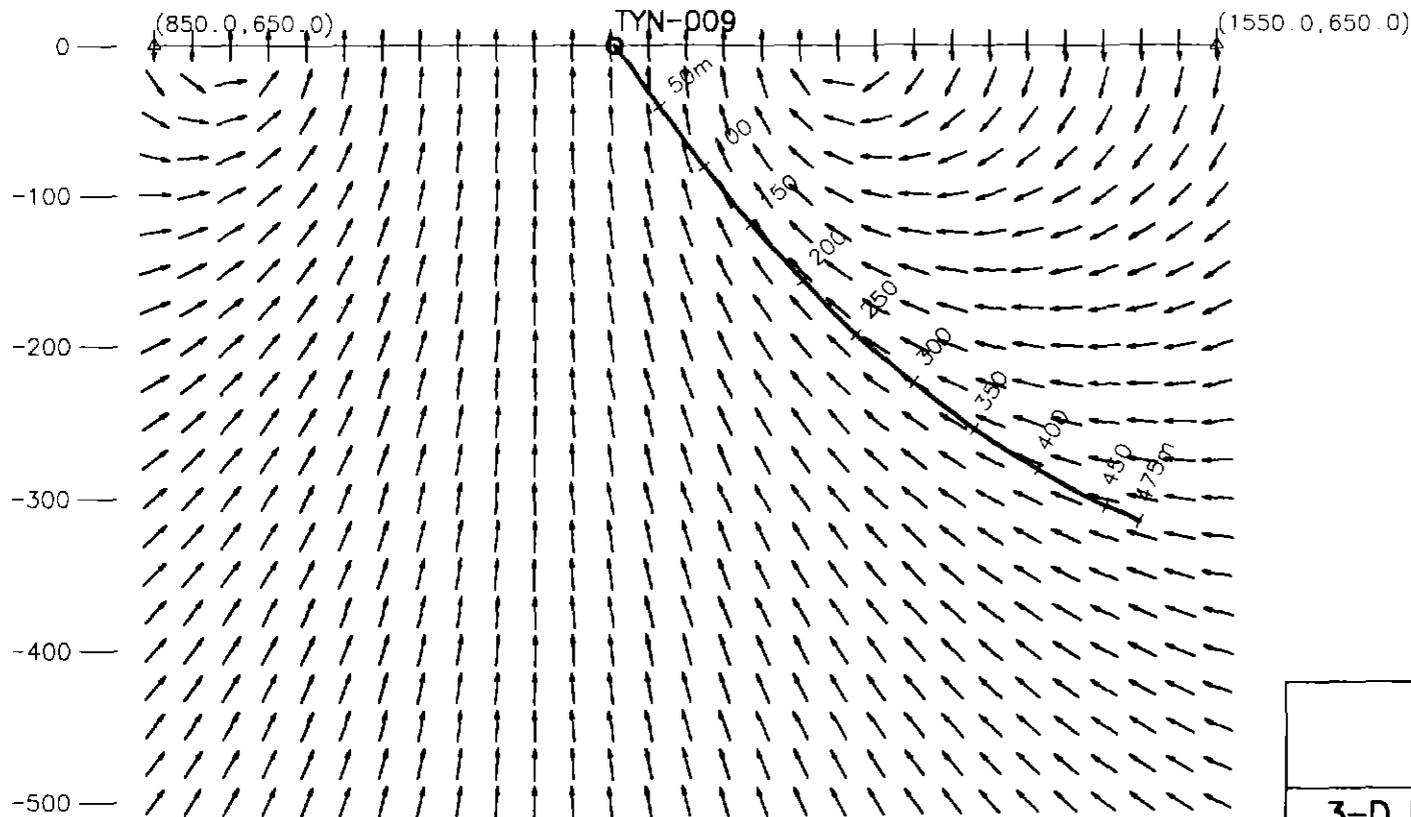


5 cm



<i>RGC Exploration</i> Basin Lake
3-D Borehole Pulse EM Survey Borehole & Loop Location Map
Hole: TYN-009 Survey Date: Nov 2, 1995
<i>Outer-Rim Exploration Services</i>

320100



<i>RGC Exploration</i> Basin Lake
3-D Borehole Pulse EM Survey Hole Section with Primary Field
Hole: TYN-009 Survey Date: Nov 2, 1995
Outer-Rim Exploration Services

323183

323185

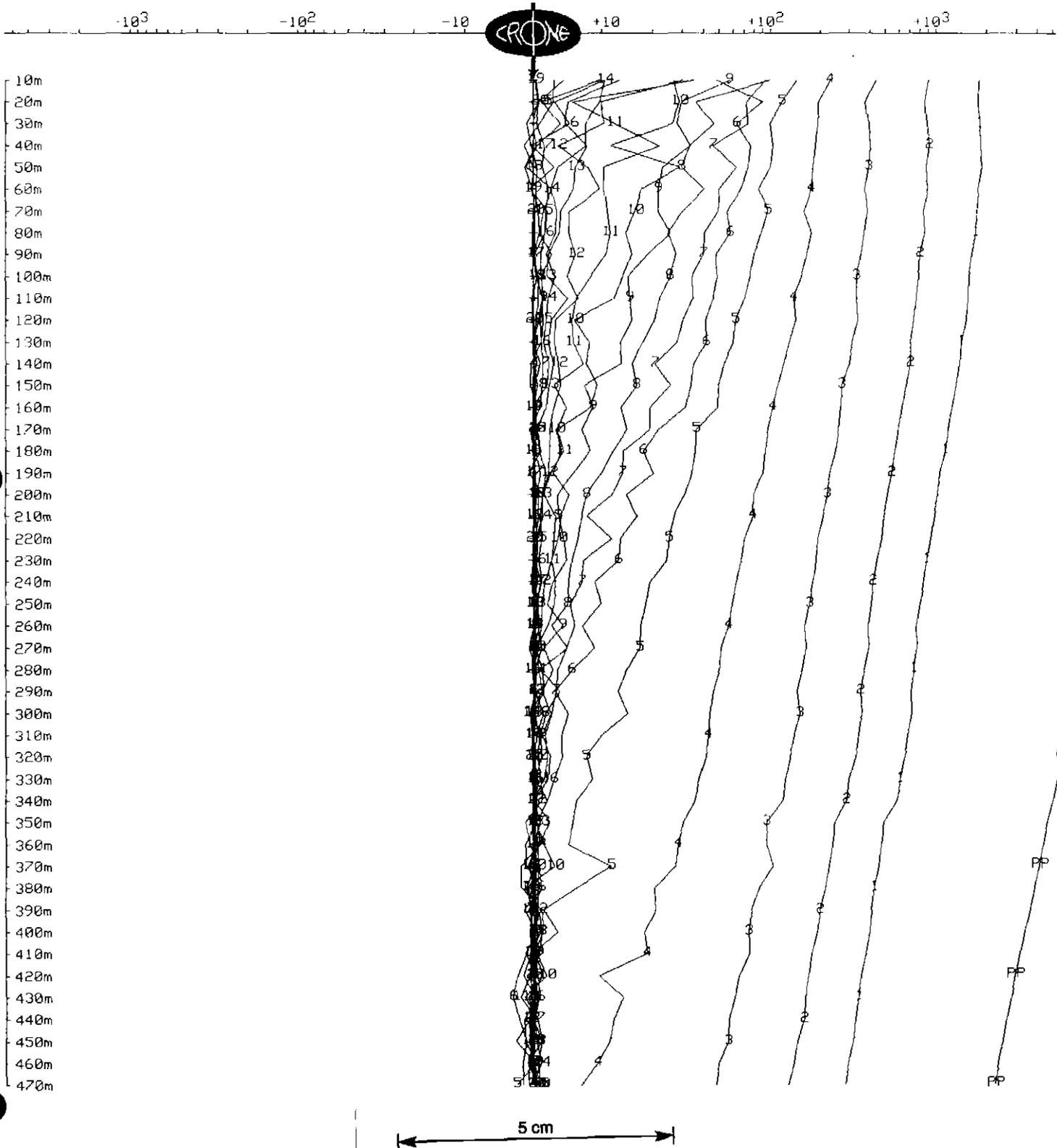
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500



323186

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

BOREHOLE PEM

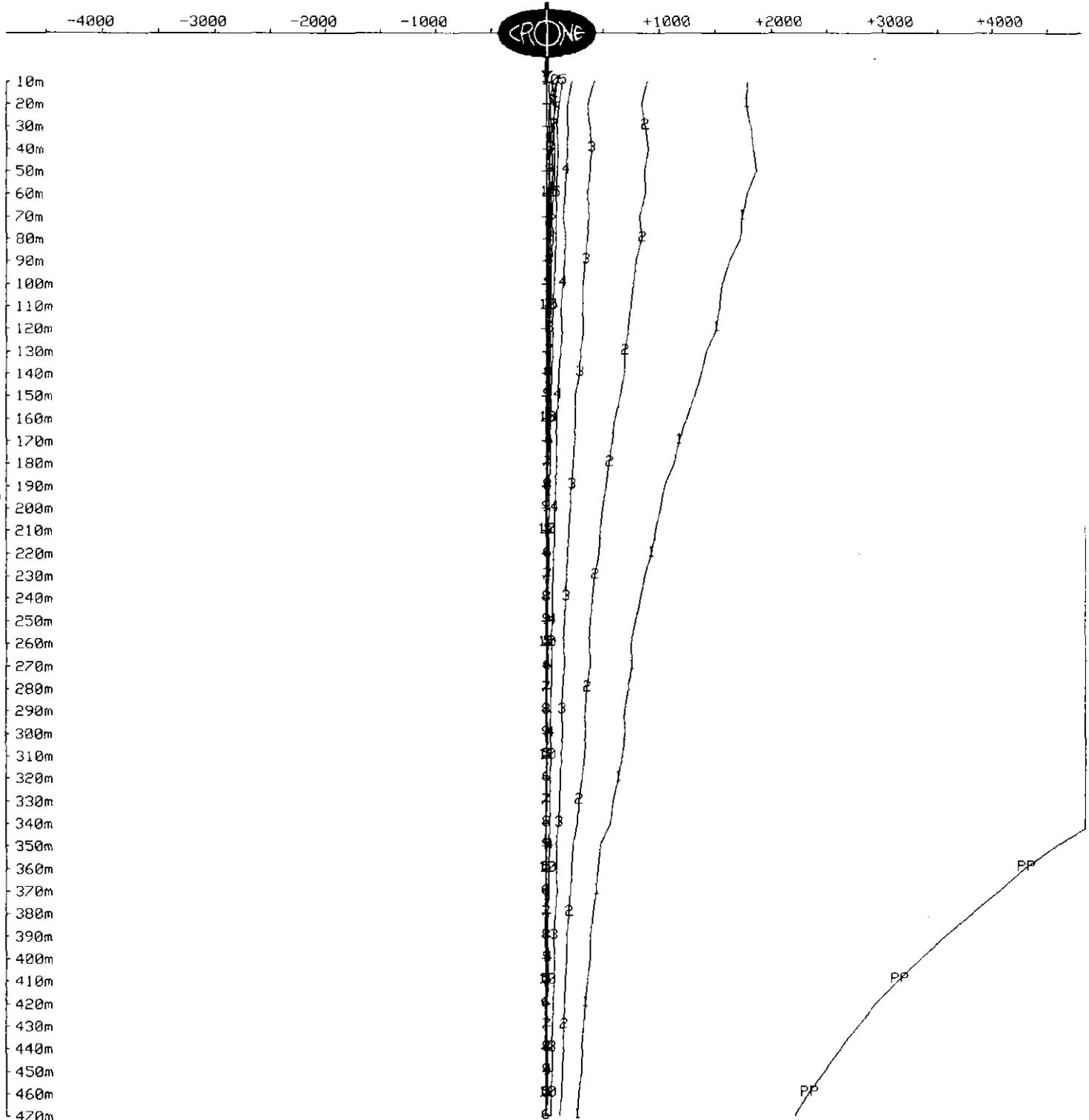
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

Unit Scale: 1cm = 500 nT/



5 cm

323187

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

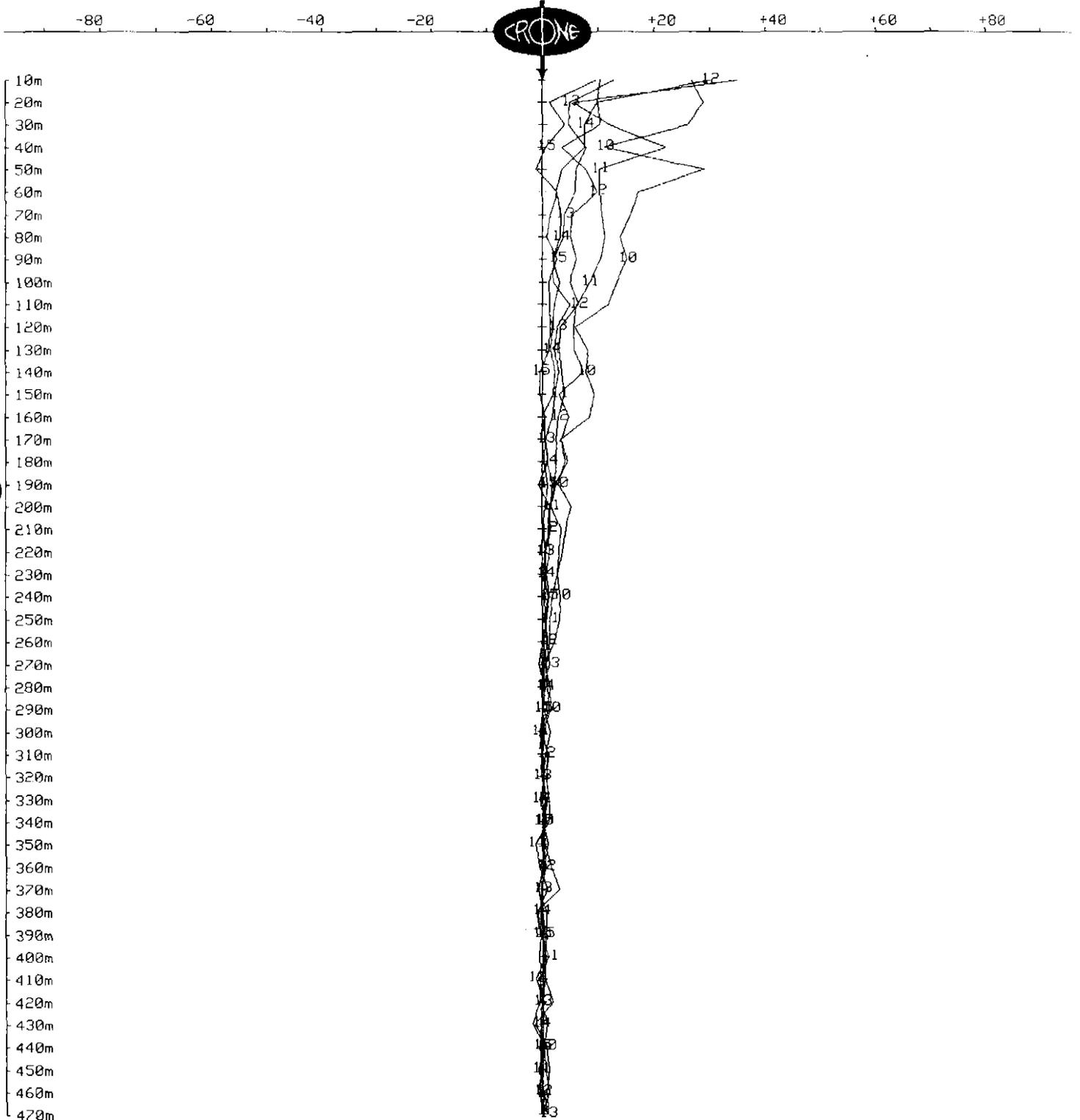
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 10 nT/



323188

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

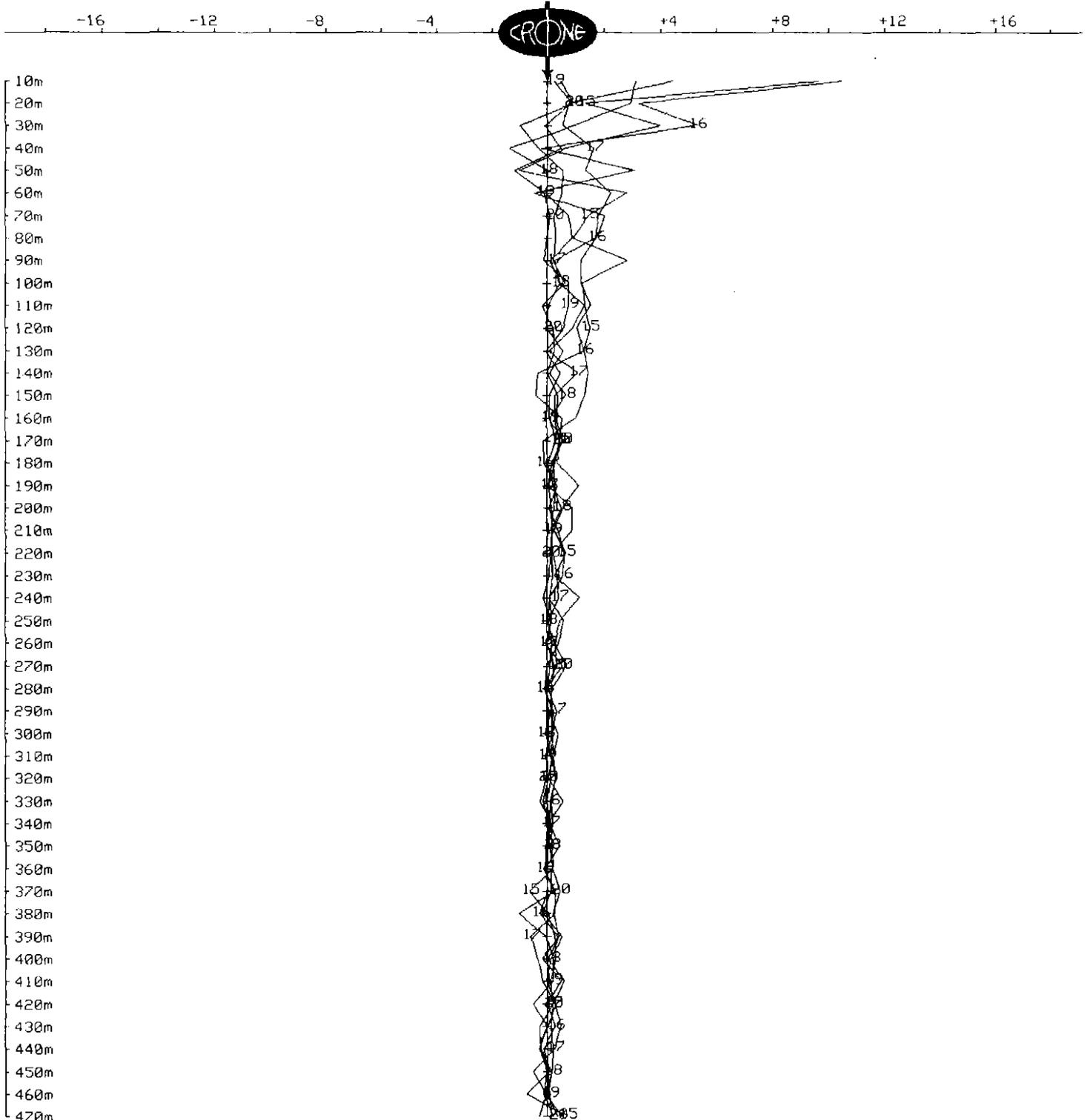
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 2 nT/



5 cm

323189

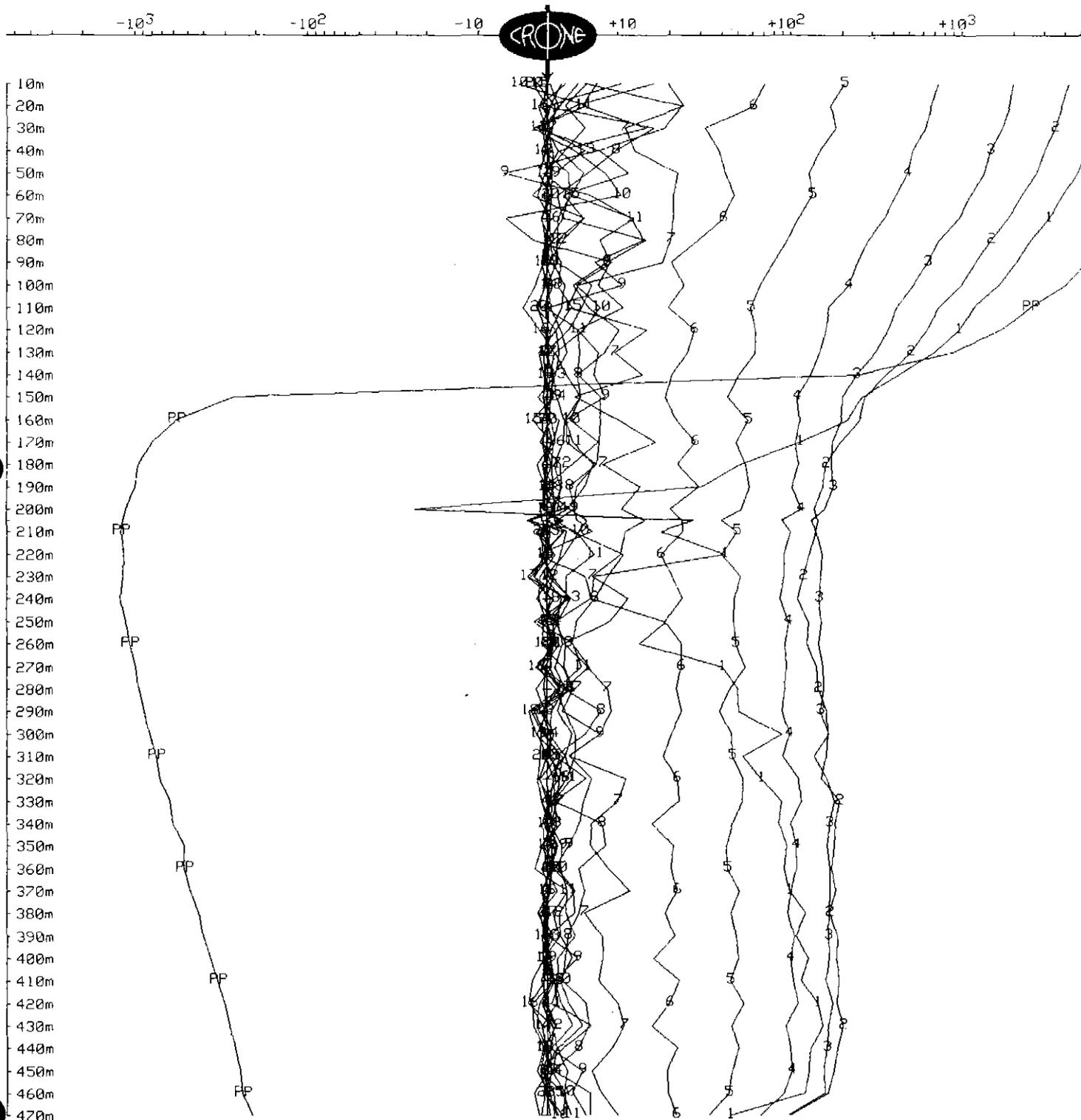
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500



323190

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

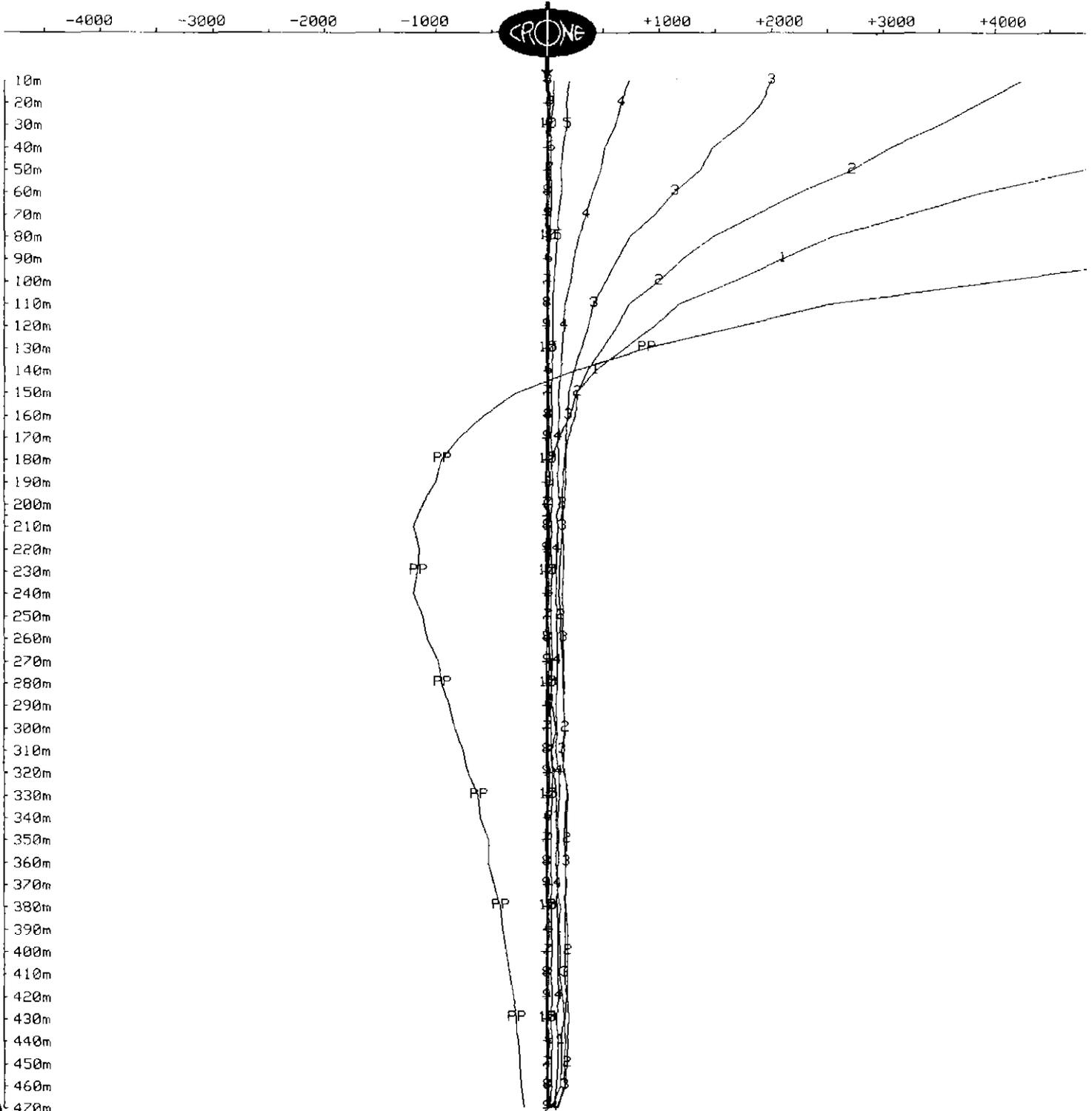
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

Unit Scale: 1cm = 500 nT/



OUTER-RIM EXPLORATION SERVICES
Operating Crane PEM System
BOREHOLE PEM

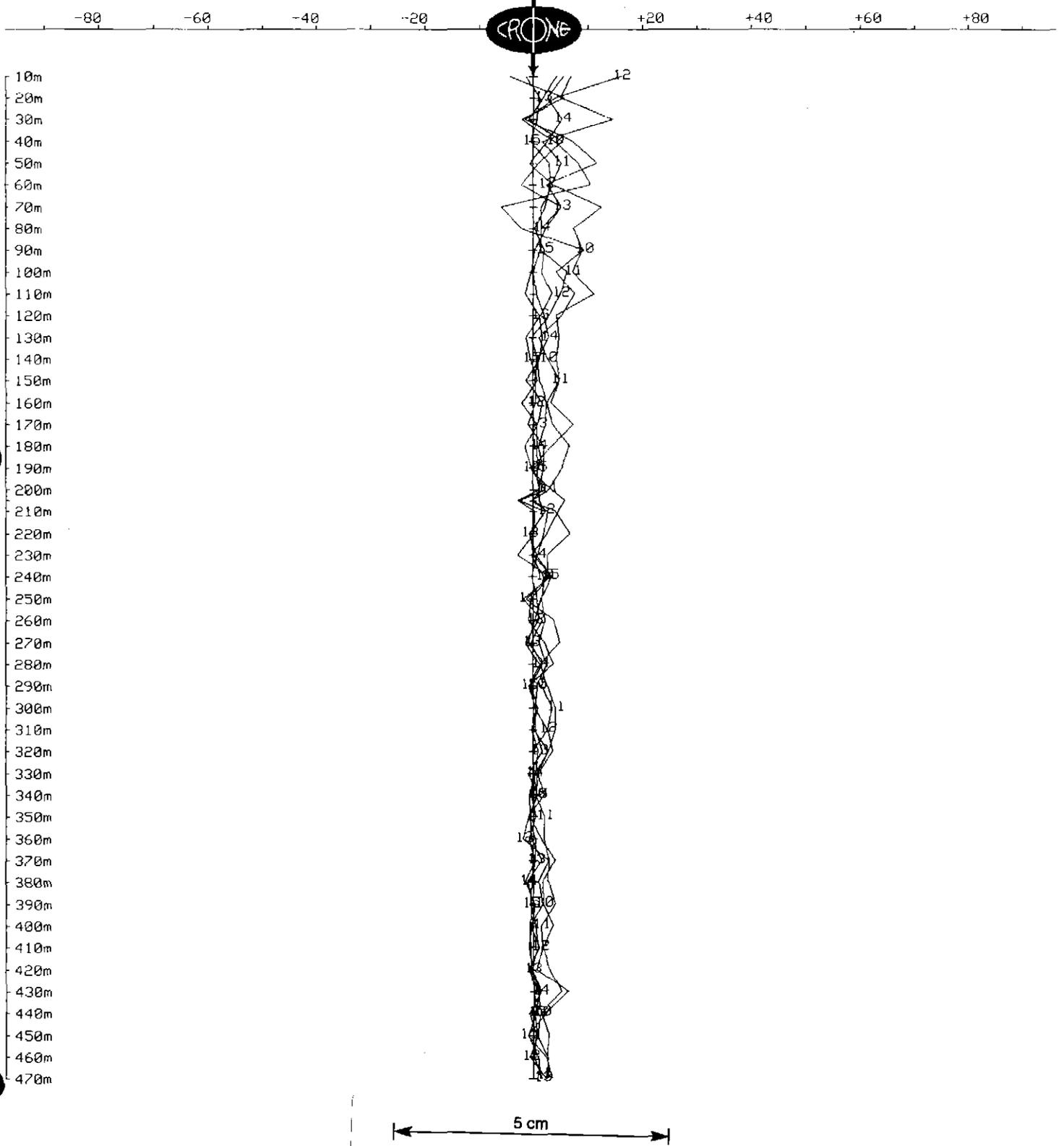
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 10 nT/



323192

OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

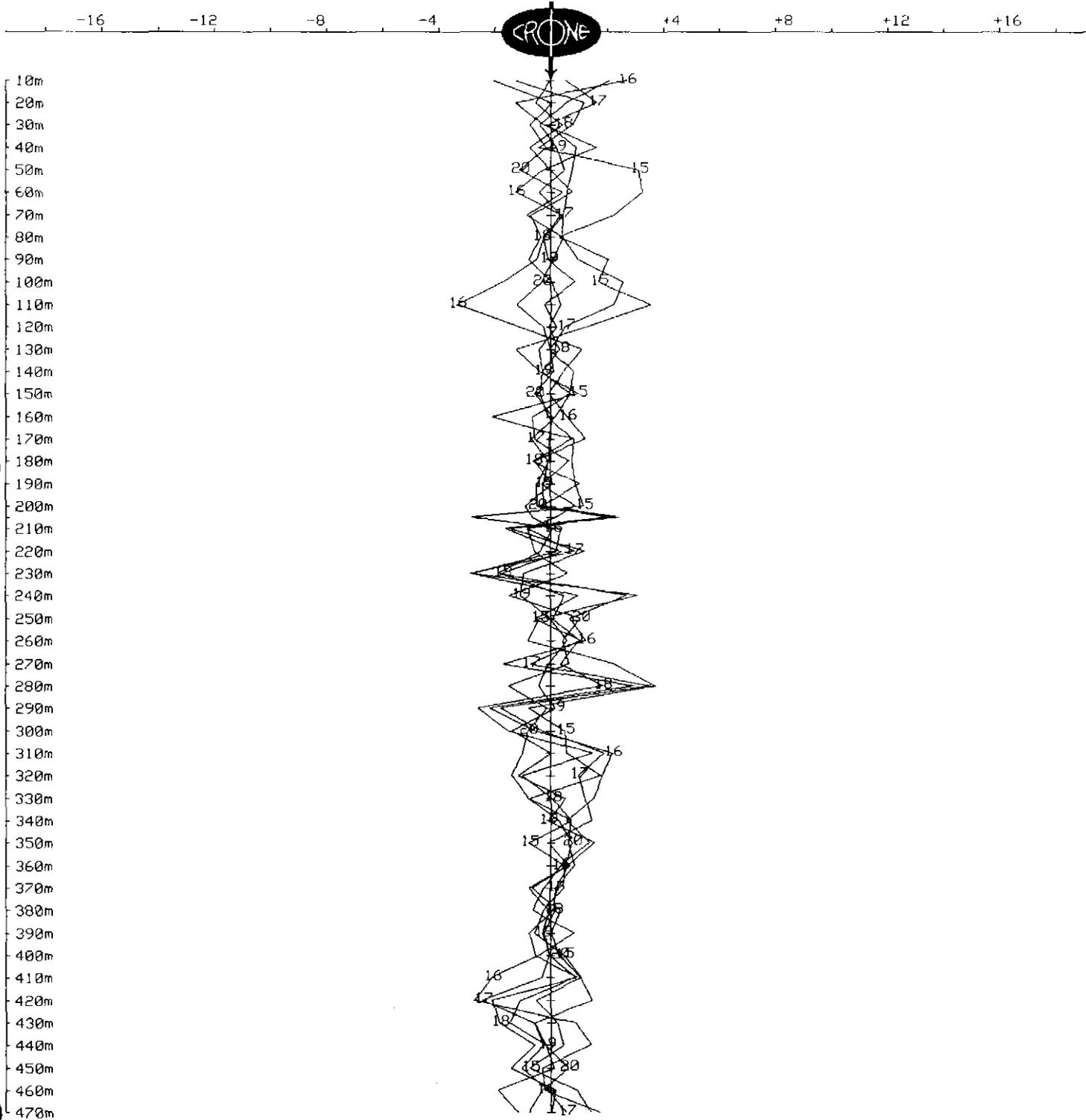
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 2 nT/



323193

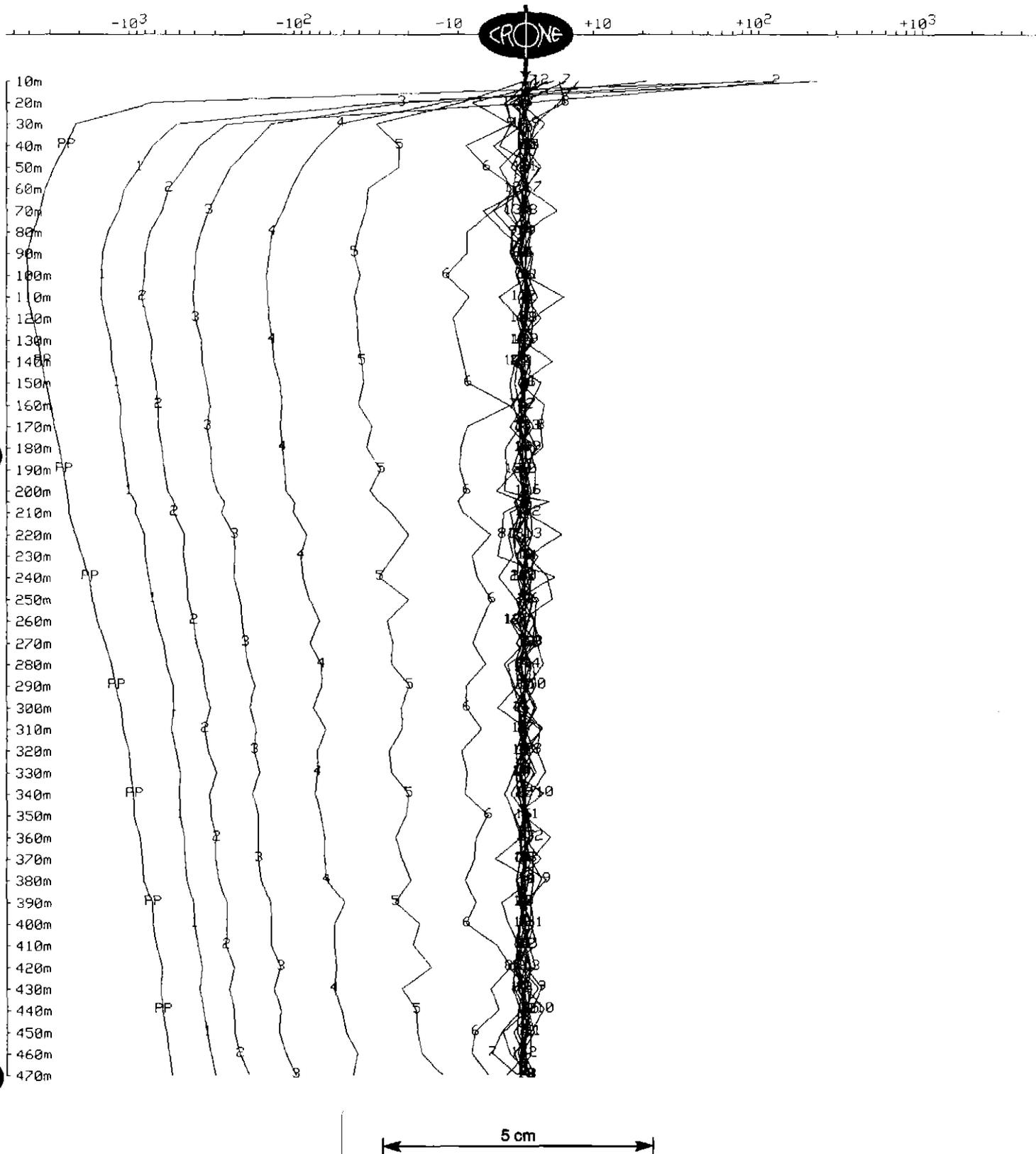
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500



323194

OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

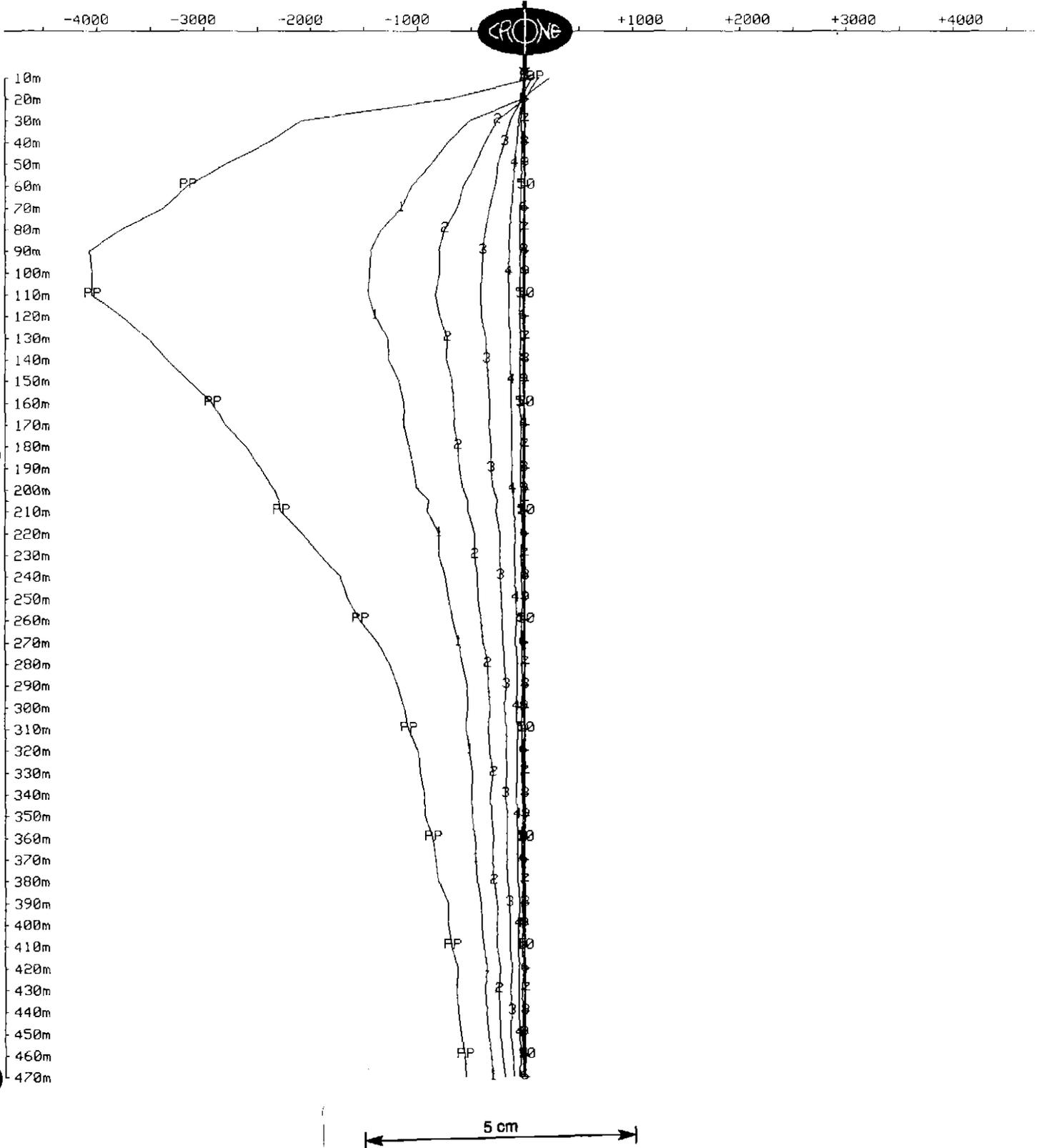
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

Unit Scale: 1cm = 500 nT/



323195

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

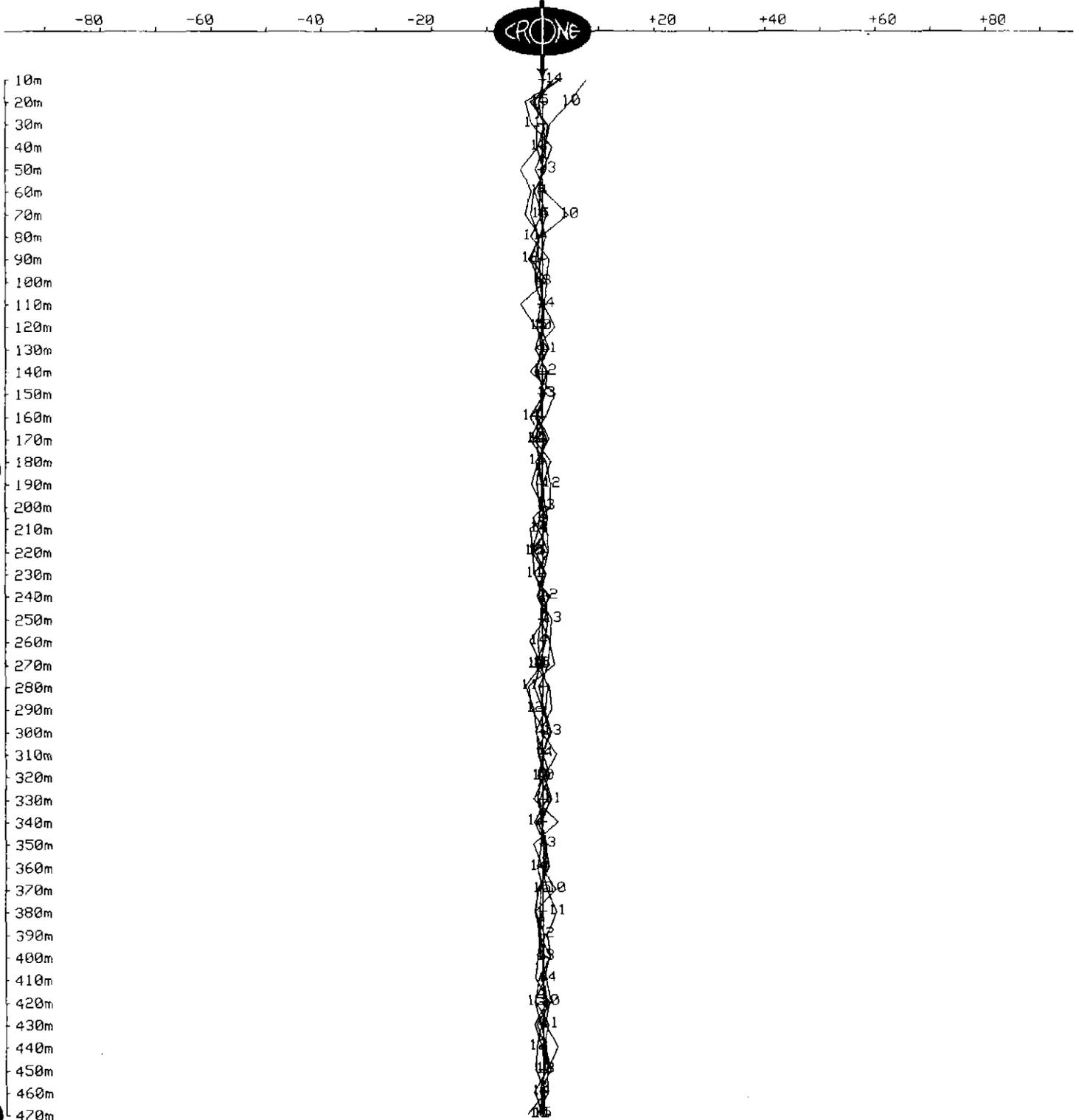
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 10 nT/



5 cm

323196

OUTER-RIM EXPLORATION SERVICES
Operating Crane PEM System
BOREHOLE PEM

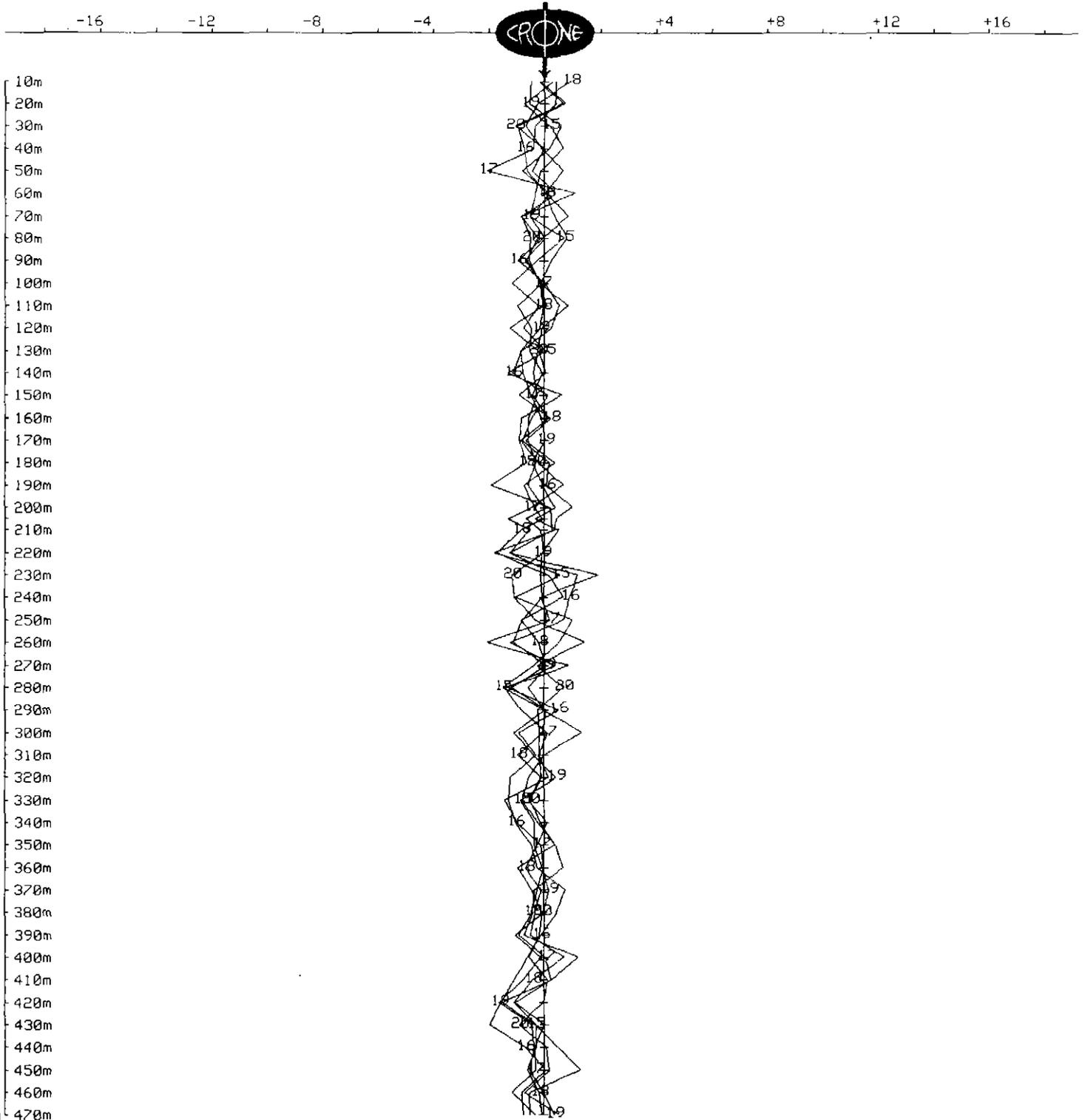
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

Hole : TYN-009
Tx Loop : Collar
File name : T9XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 2 nT/



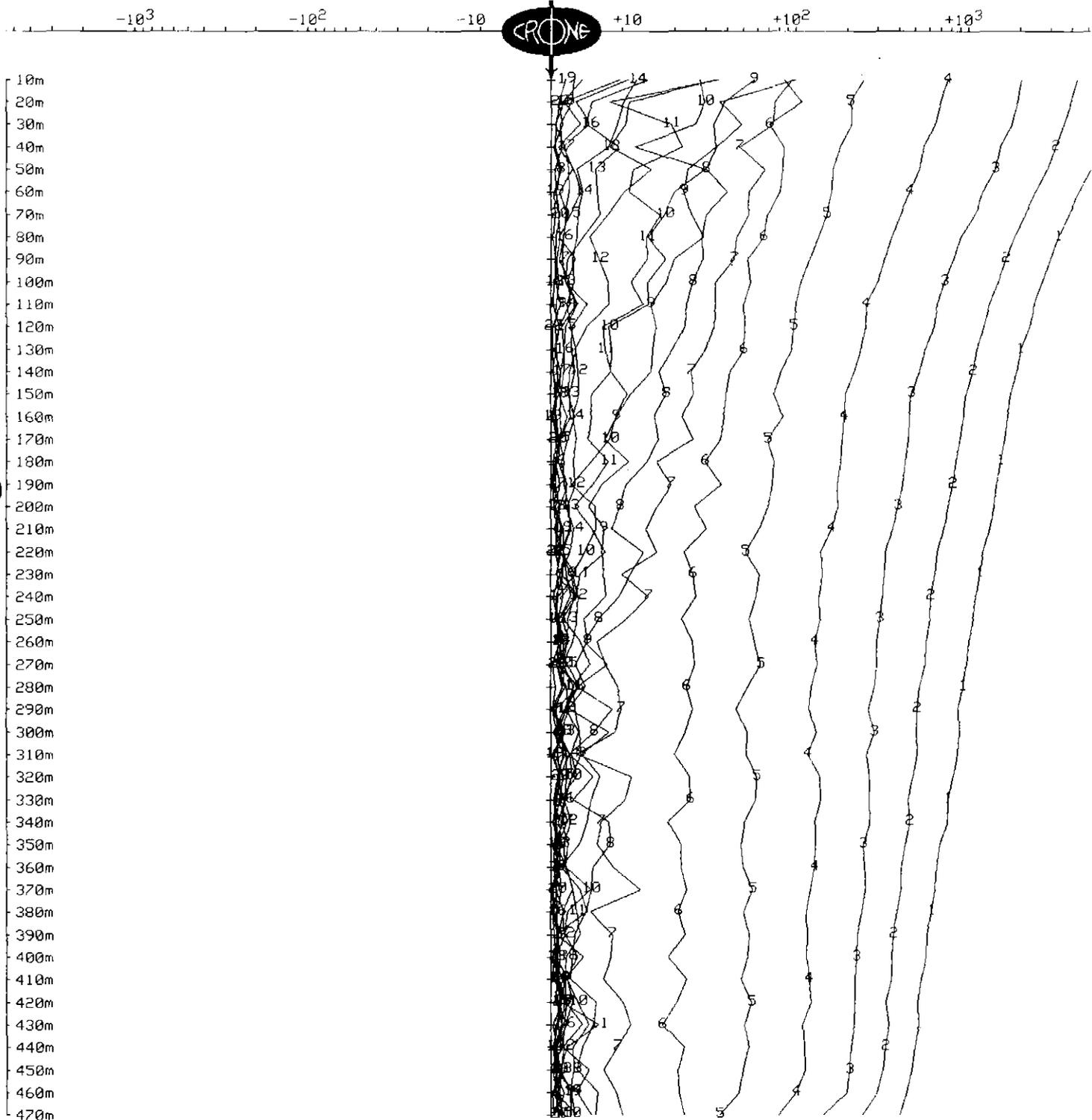
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 2, 1995

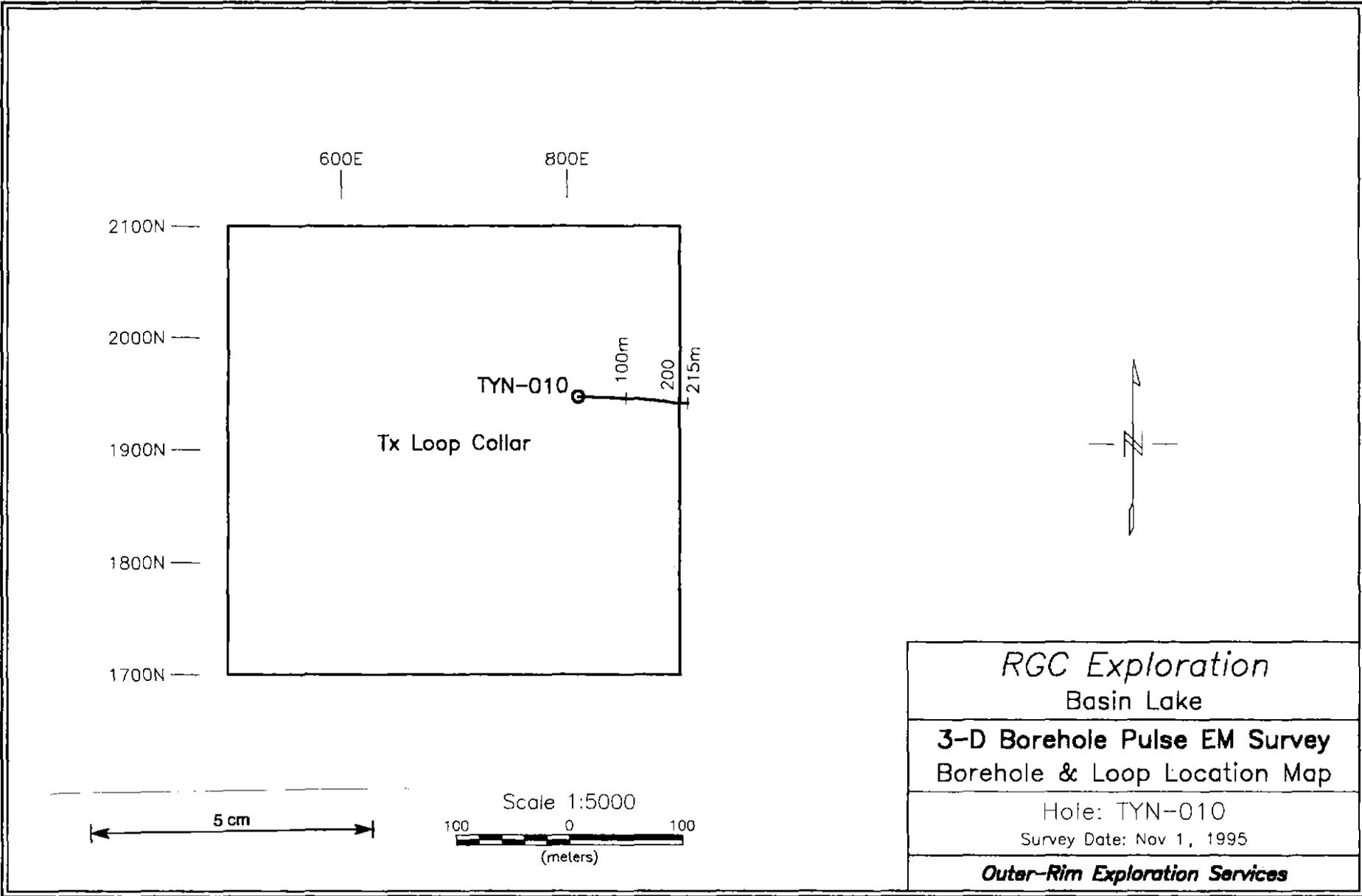
Hole : TYN-009
Tx Loop : Collar
File name : T9XYZ.PEM

TOTAL FIELD dBxyz/dt nanoTesla/sec - 20 channels

Scale: 1:2500

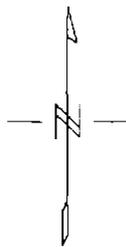


5 cm



5 cm

Scale 1:5000
100 0 100
(meters)



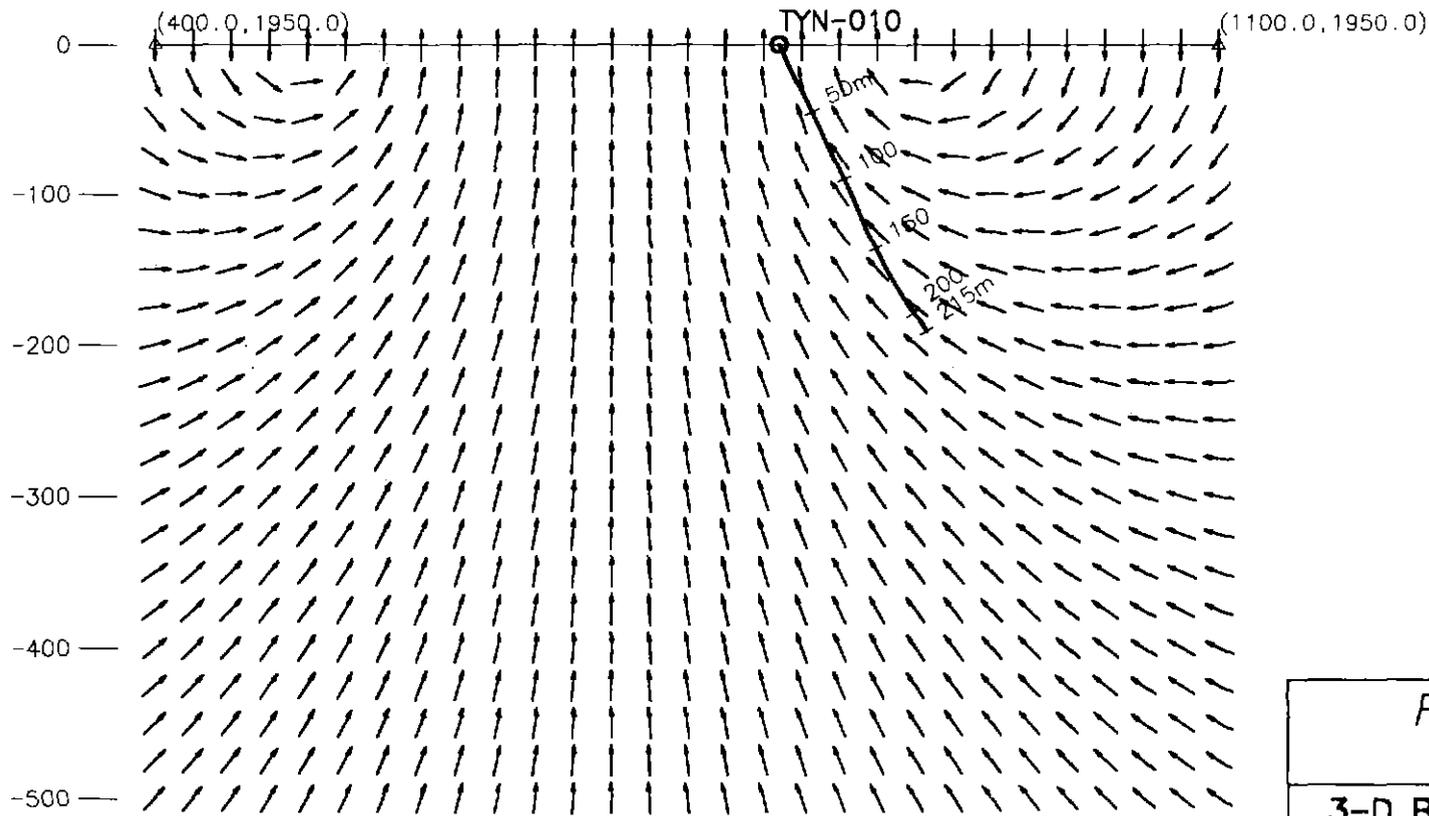
RGC Exploration
Basin Lake

3-D Borehole Pulse EM Survey
Borehole & Loop Location Map

Hole: TYN-010
Survey Date: Nov 1, 1995

Outer-Rim Exploration Services

323198



<i>RGC Exploration</i> Basin Lake
3-D Borehole Pulse EM Survey Hole Section with Primary Field
Hole: TYN-010 Survey Date: Nov 1, 1995
<i>Outer-Rim Exploration Services</i>

323199

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: RGC Exploration	Hole	: TYN-010
Grid	: Basin Lake	Tx Loop	: Collar
Date	: Nov 1, 1995	File name	: T10Z.PEM
Time Base	: 20.00 ms	# Readings	: 22
Ramp Time	: 1.00 ms	Stn Units	: Metric
# Channels	: 20	Coil Area	: 6500 sq m
Sync Type	: Cable	Polarity	: +
Loop Size	: 400m X 400m	Receiver	: Digital #108
Current	: 10 Amps	Operator	: Kent Honner

Loop Coordinates (X,Y,Z)

1. 500m, 1700m, 0m	2. 900m, 1700m, 0m
3. 900m, 2100m, 0m	4. 500m, 2100m, 0m

Hole Coordinates (X,Y,Z) or (Azimuth,Dip,Length)

1. 810m, 1947m, 0m	2. 90deg, 65deg, 15m
3. 92deg, 64deg, 30m	4. 94deg, 65deg, 30m
5. 91deg, 65deg, 30m	6. 94deg, 65.5deg, 30m
7. 94deg, 64deg, 30m	8. 98deg, 58deg, 30m
9. 91.5deg, 56.2deg, 20m	

Channel Times (usec)

Ch	Start	End	Center	Ch	Start	End	Center	Ch	Start	End	Center
PP	-198	-99	-149	1	76	104	90	2	104	131	117
3	131	171	151	4	171	225	198	5	225	292	259
6	292	378	335	7	378	490	434	8	490	639	565
9	639	828	733	10	828	1075	952	11	1075	1395	1235
12	1395	1809	1602	13	1809	2348	2078	14	2348	3046	2697
15	3046	3951	3498	16	3951	5121	4536	17	5121	6646	5884
18	6646	8617	7632	19	8617	11170	9894	20	11170	14490	12830

323201

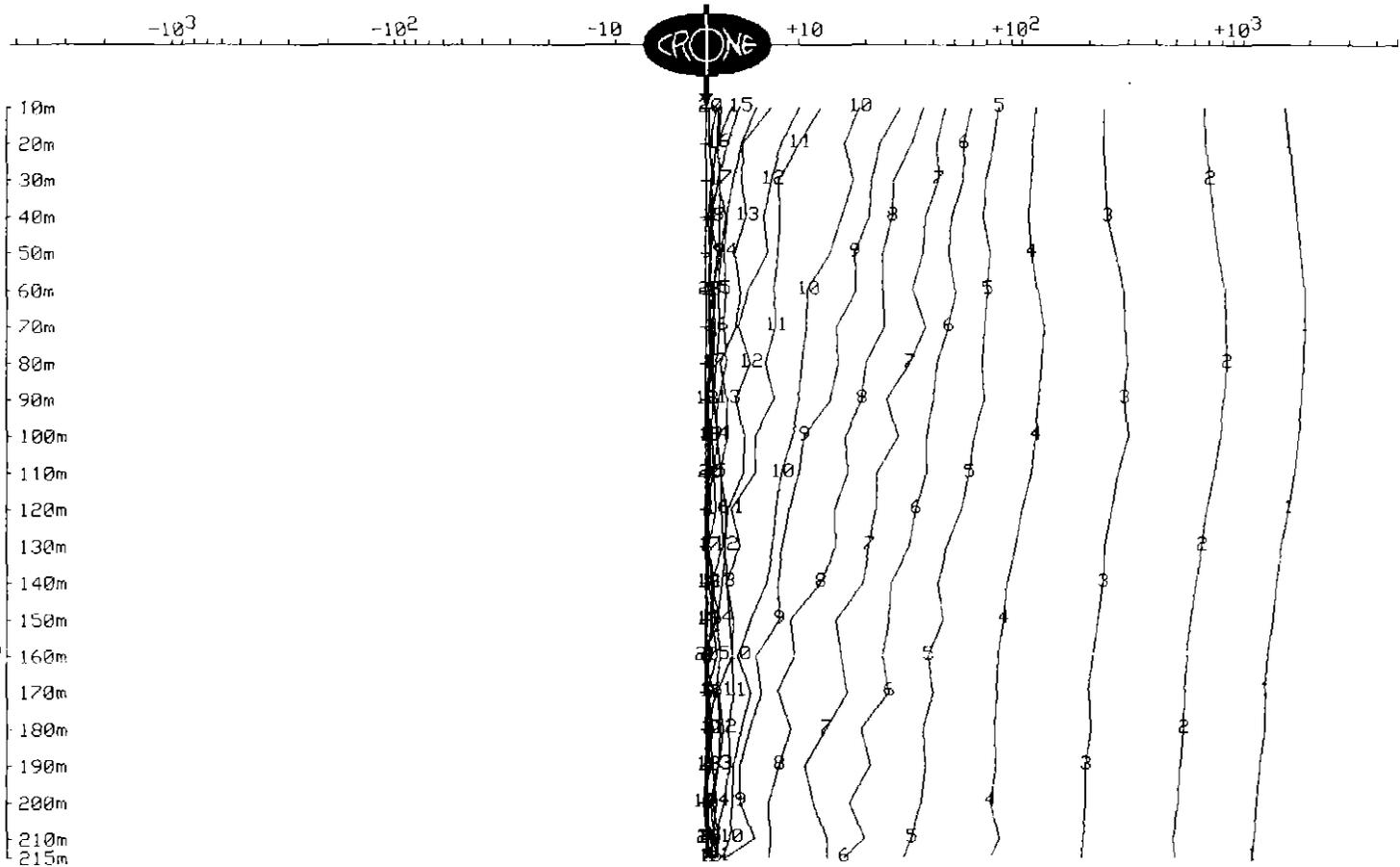
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



323202

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

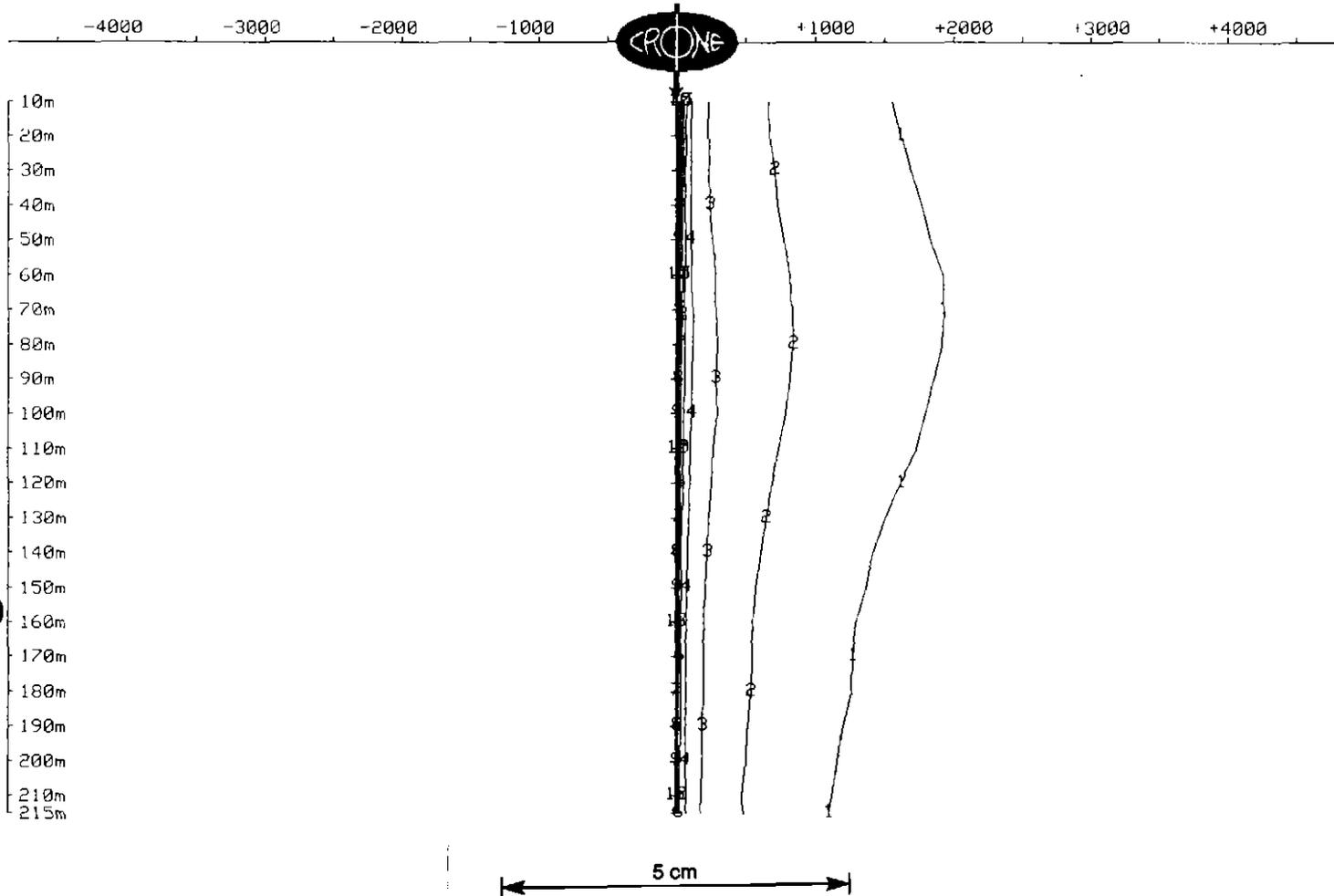
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000

Unit Scale: 1cm = 500 nT/



323203

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

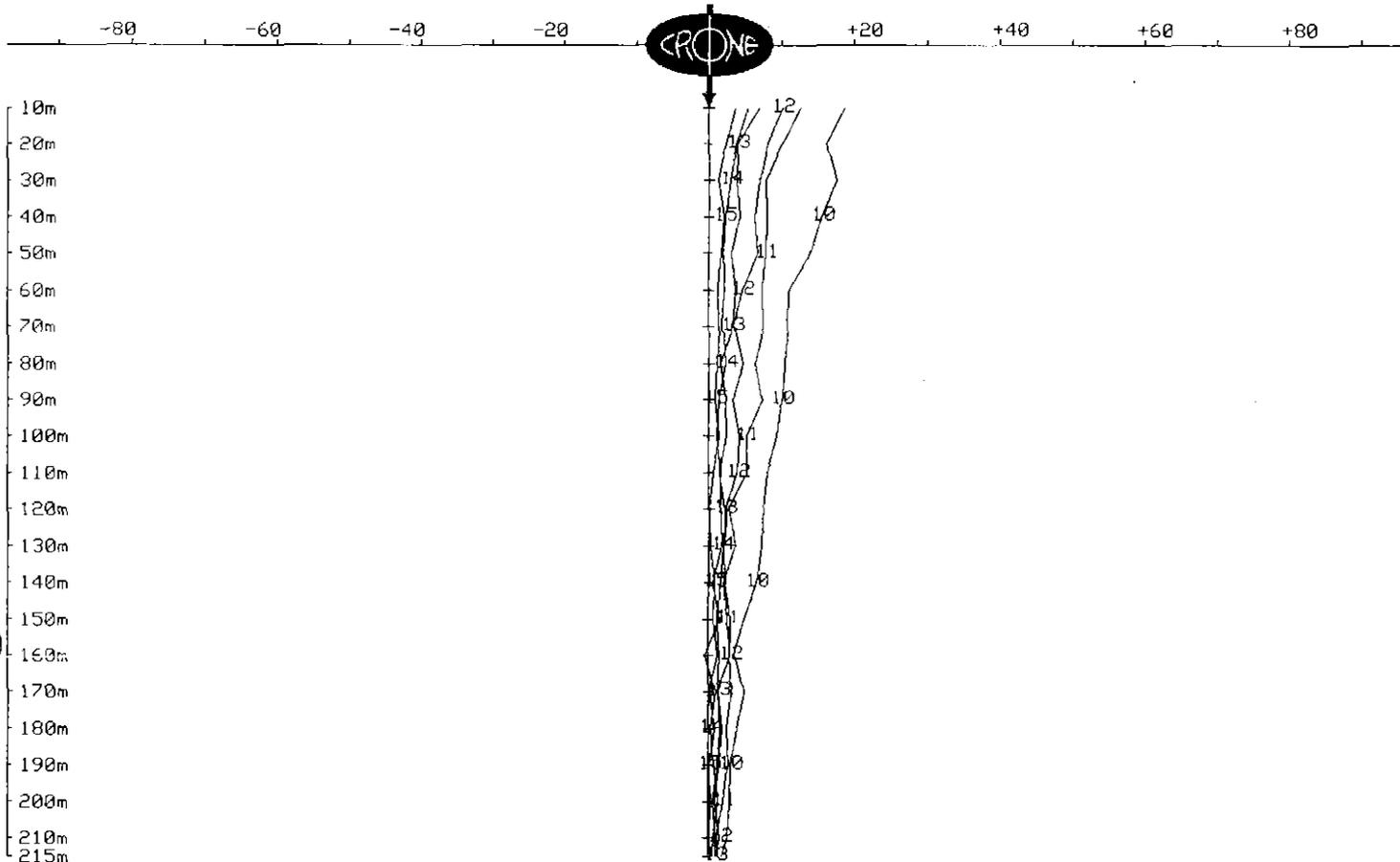
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 10 nT/



323204

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

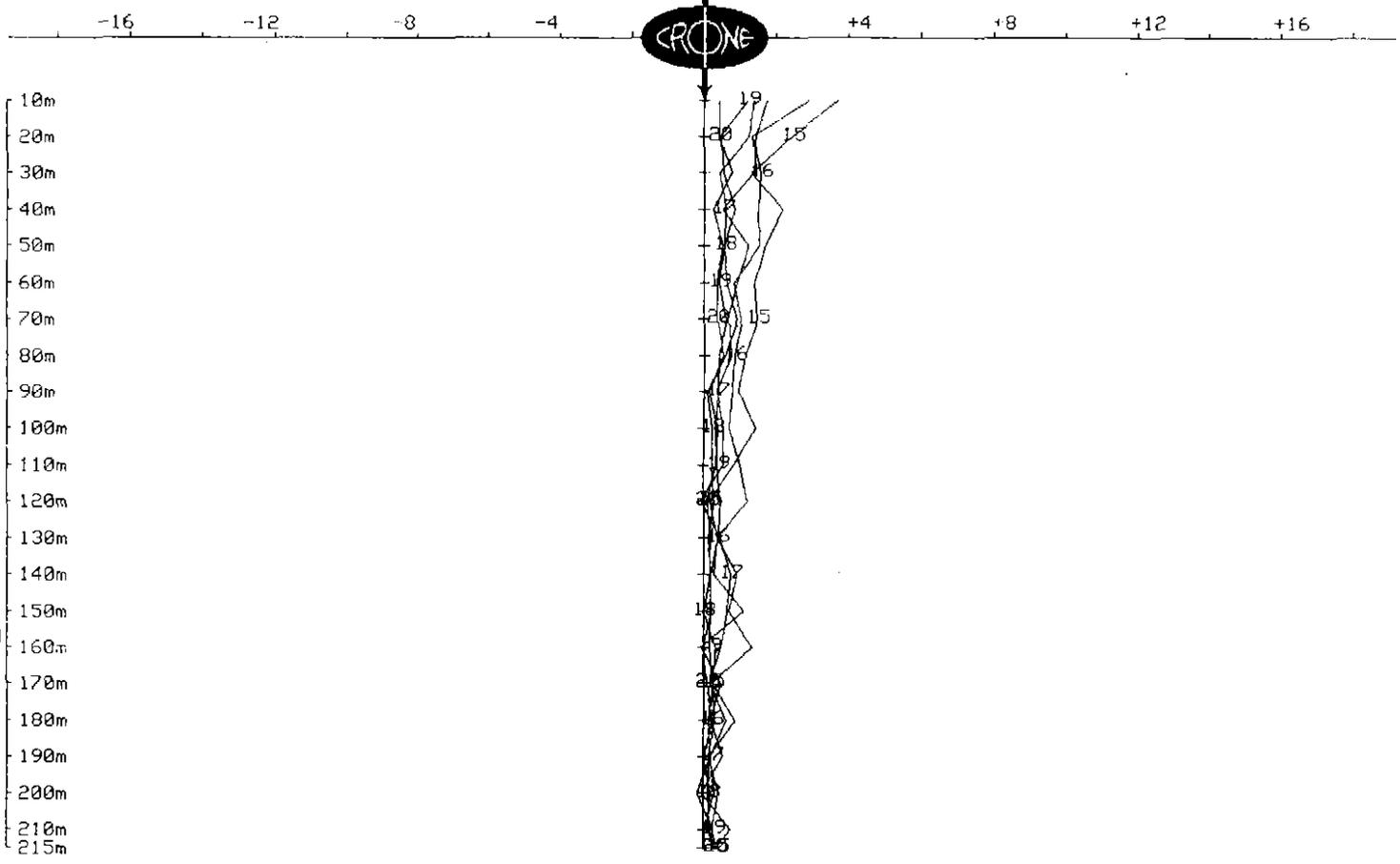
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 2 nT/



323205

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

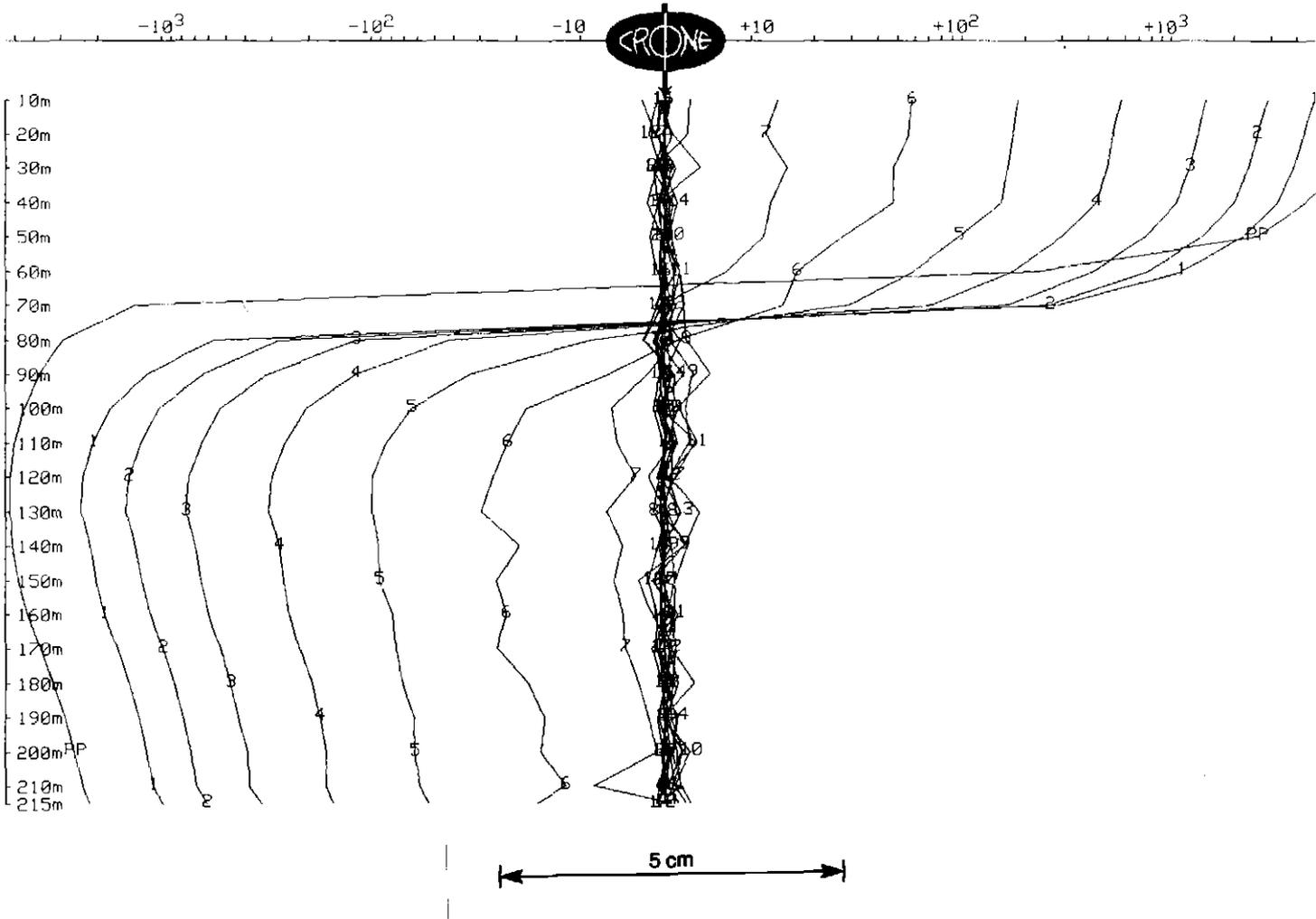
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



323206

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BORHOLE PEM

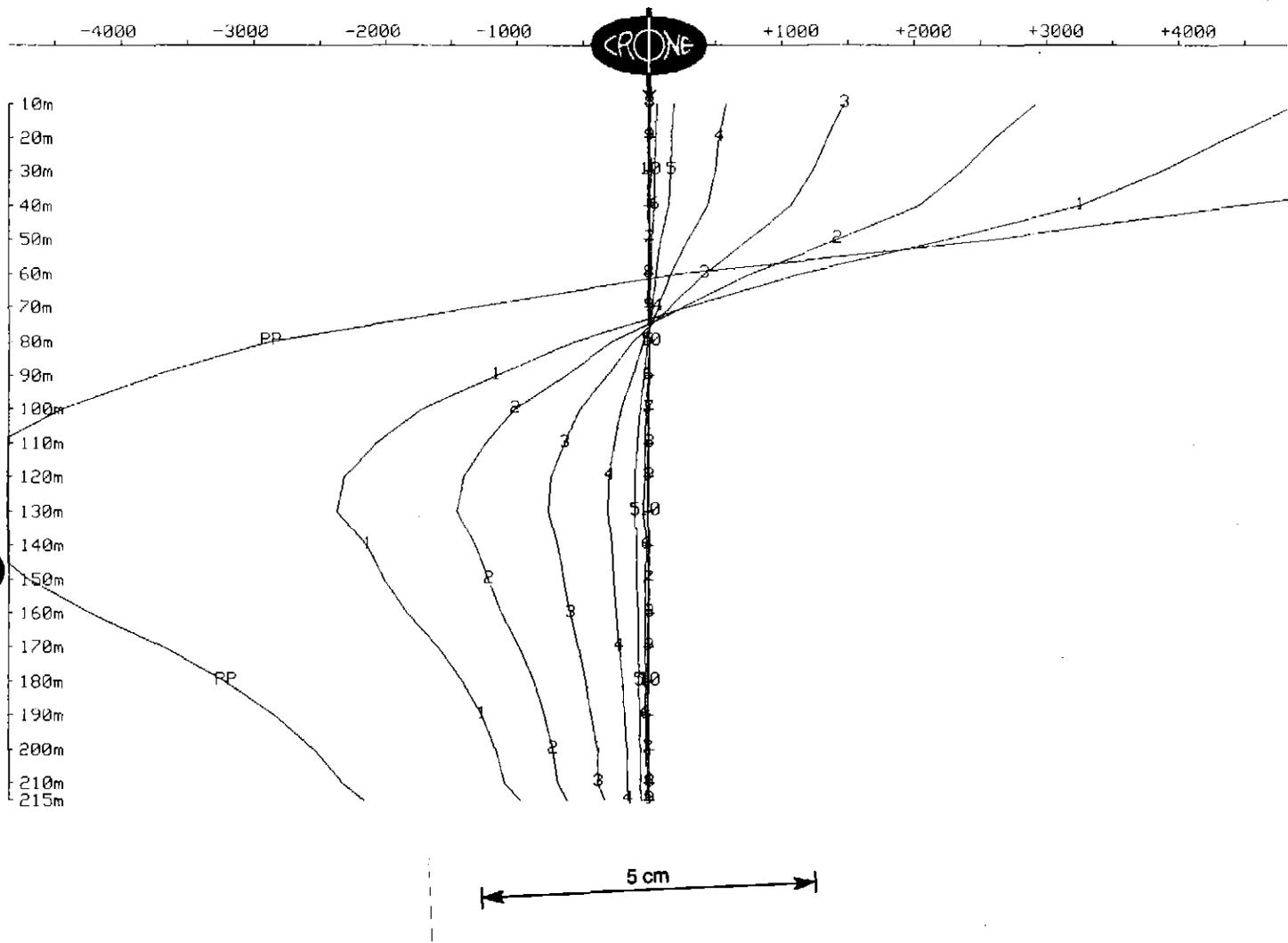
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000

Unit Scale: 1cm = 500 nT/s



323207

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

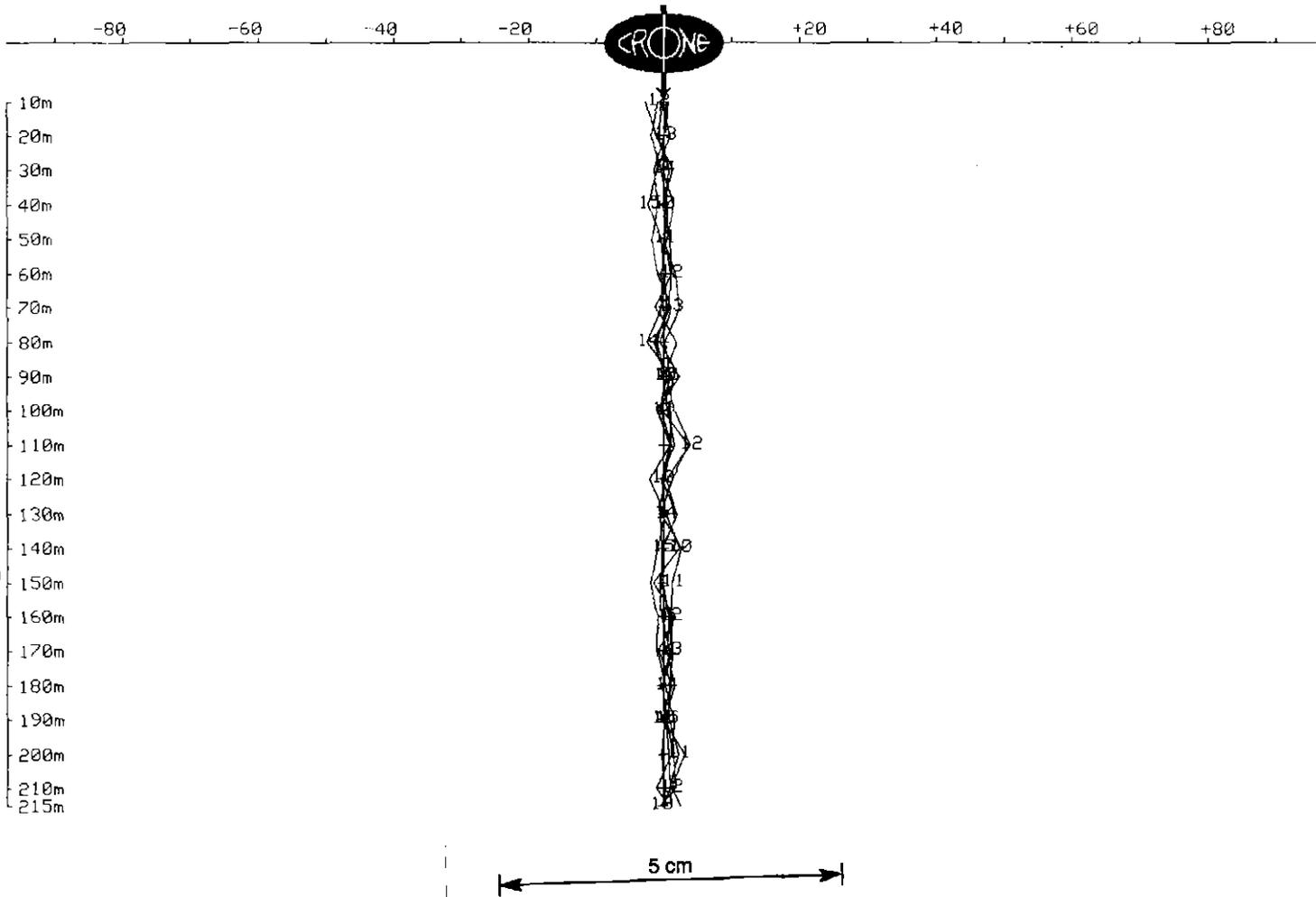
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 10 nT/



323208

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

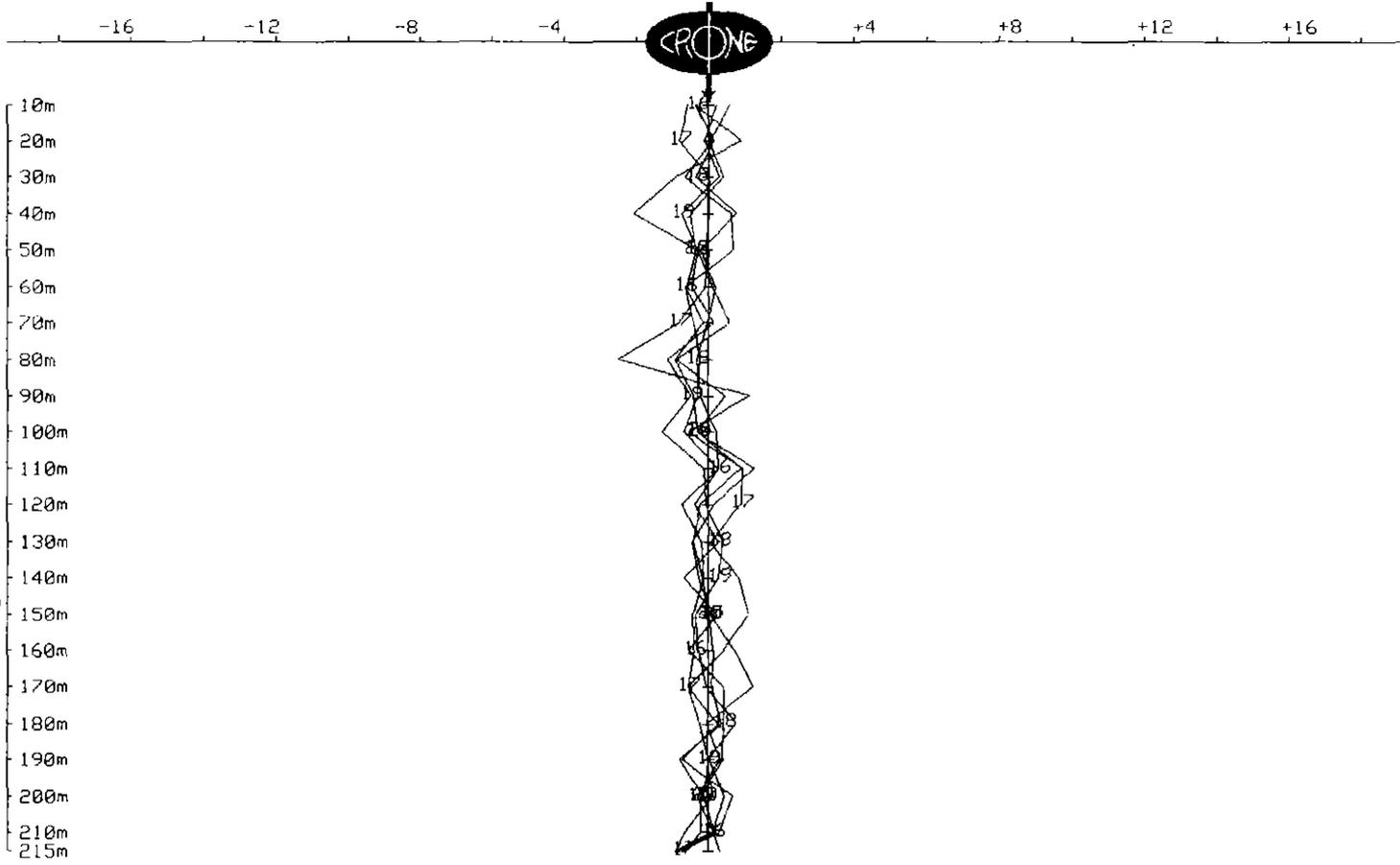
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 2 nT/



5 cm

323209

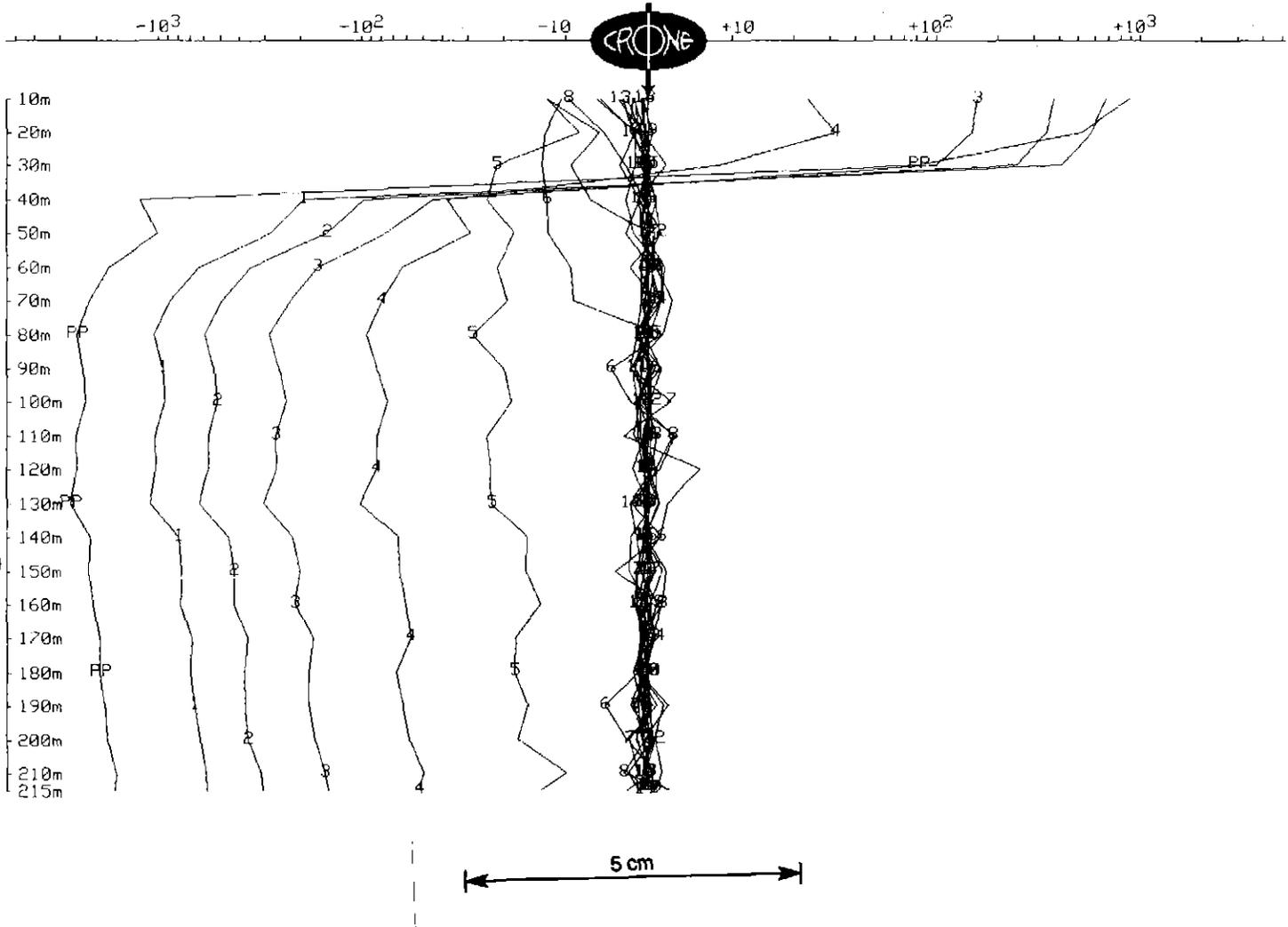
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



323210

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

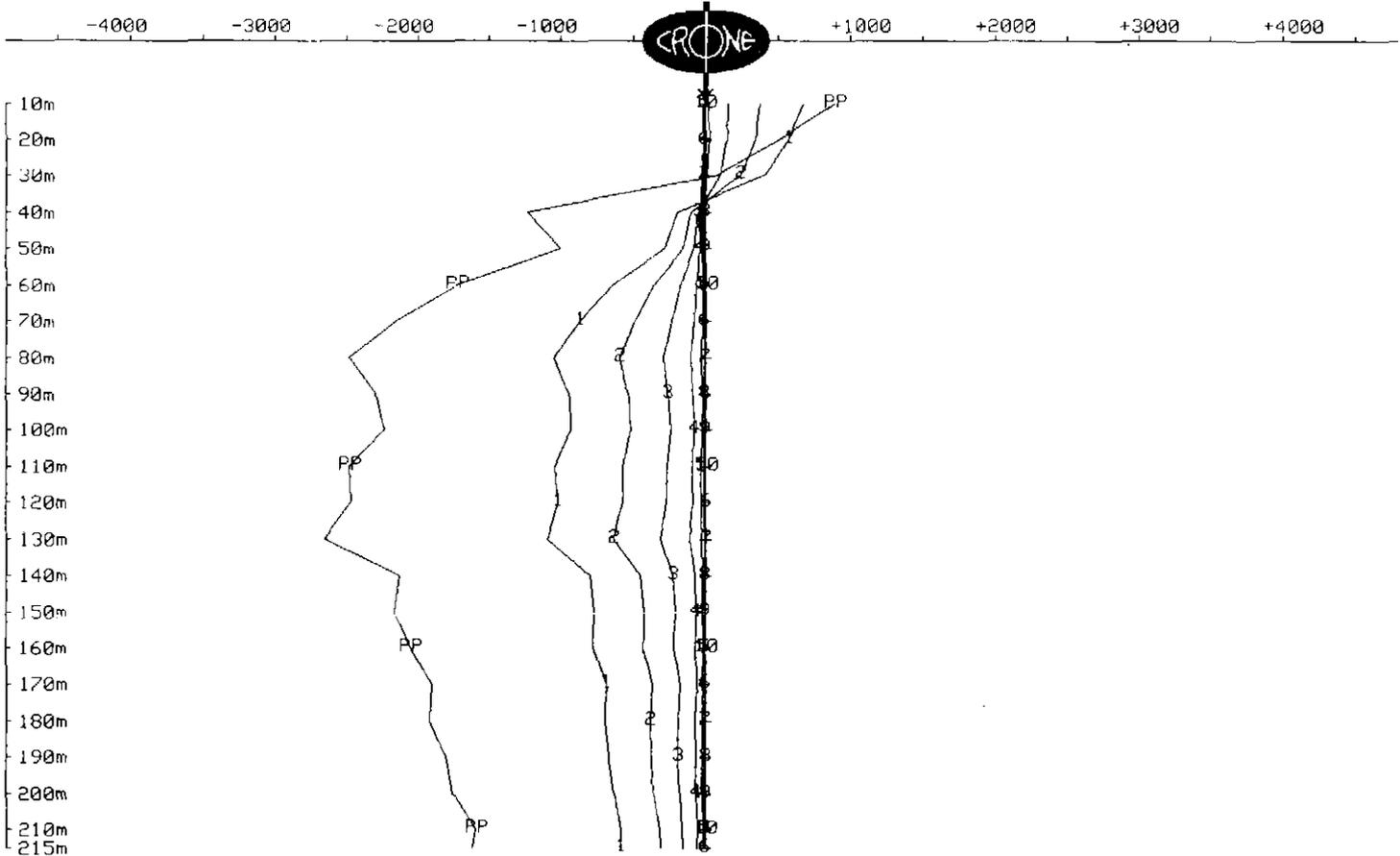
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000

Unit Scale: 1cm = 500 nT/



323211

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

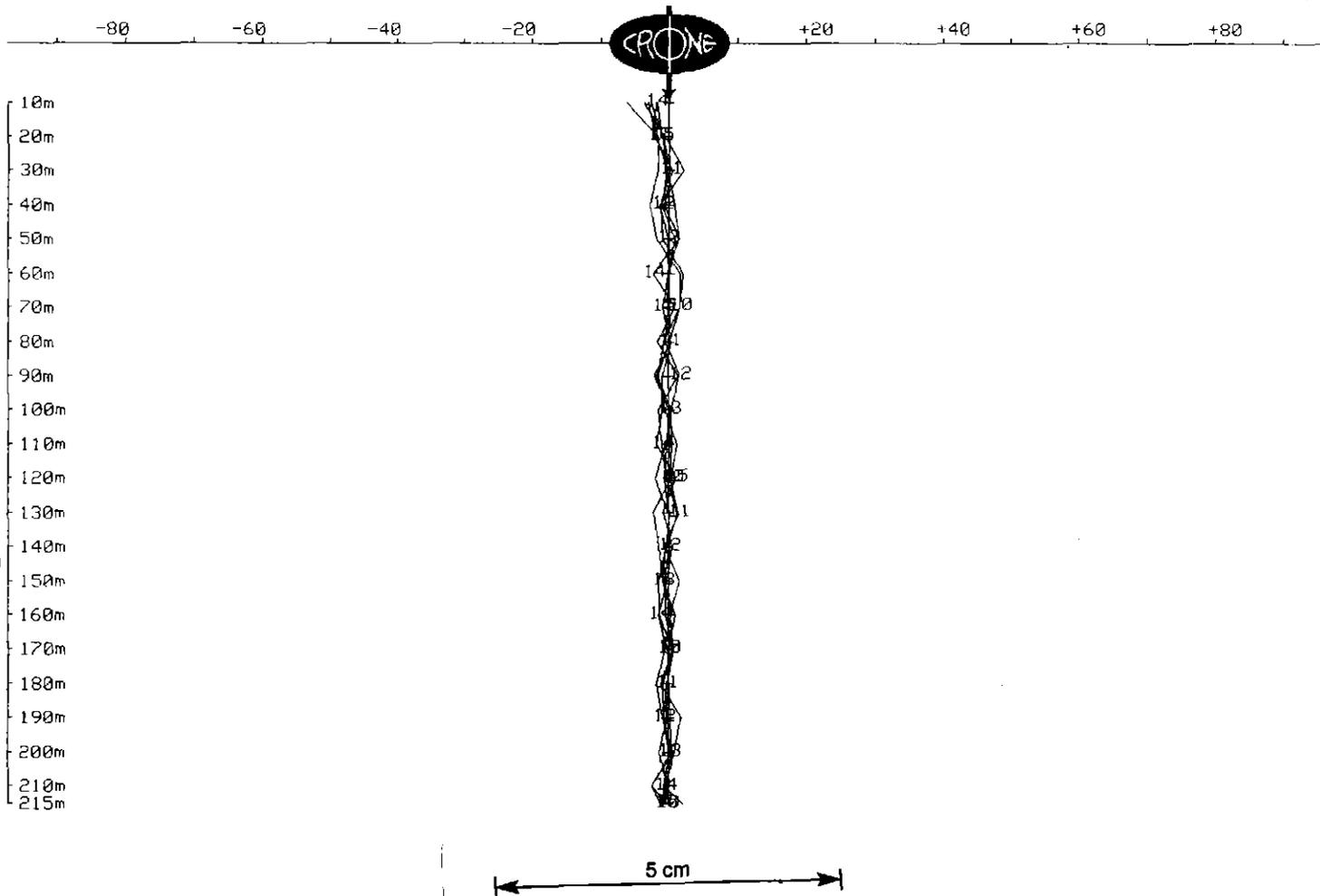
Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

Hole : TYN-010
Tx Loop : Collar
File name : T10XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 10 nT/



323213

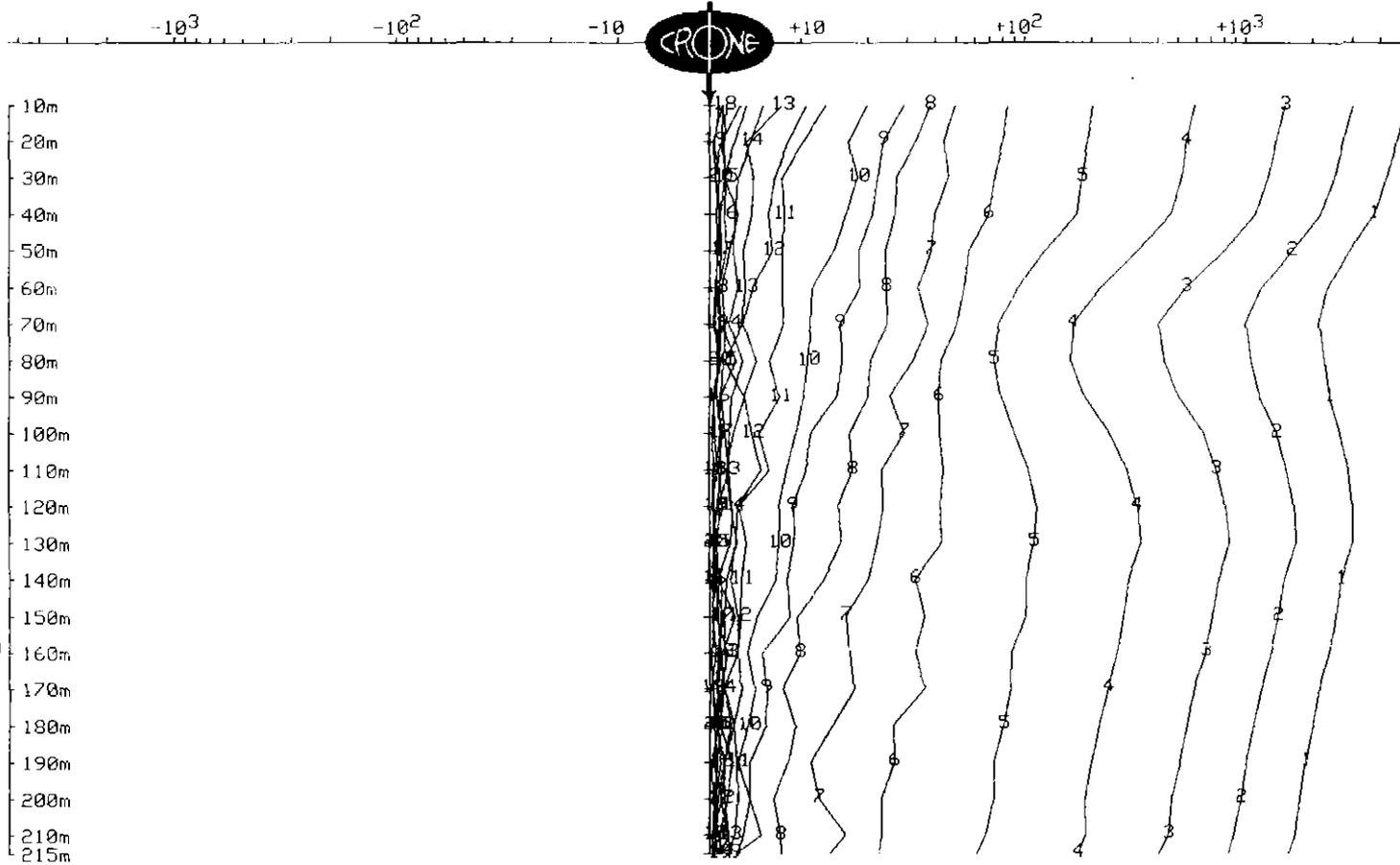
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Nov 1, 1995

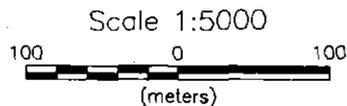
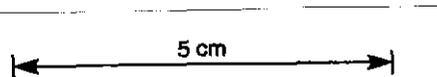
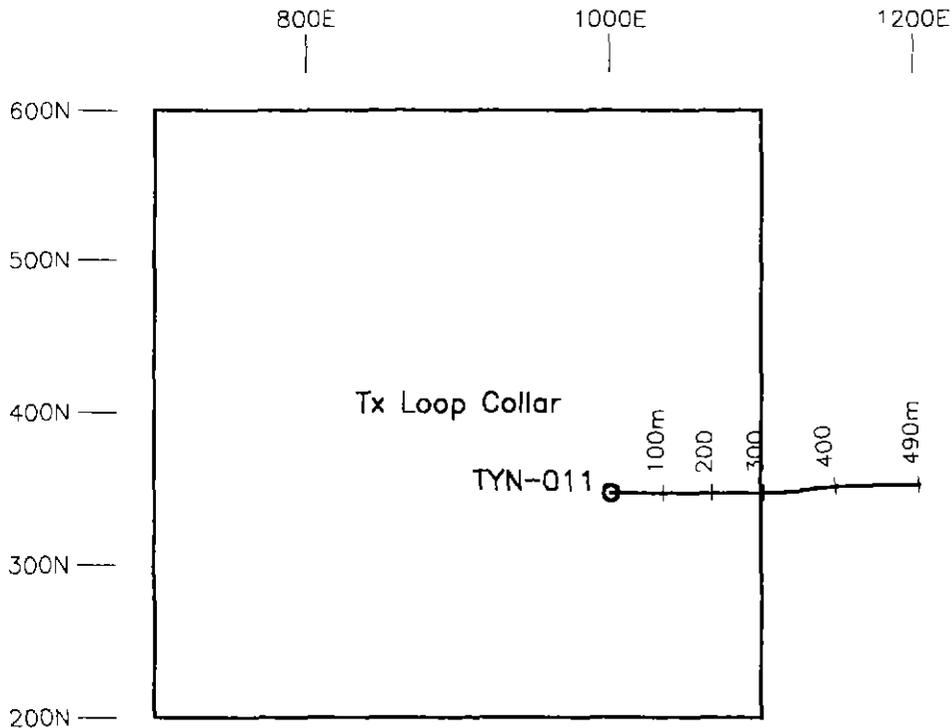
Hole : TYN-010
Tx Loop : Collar
File name : T10XYZ.PEM

TOTAL FIELD dBxyz/dt nanoTesla/sec - 20 channels

Scale: 1:2000

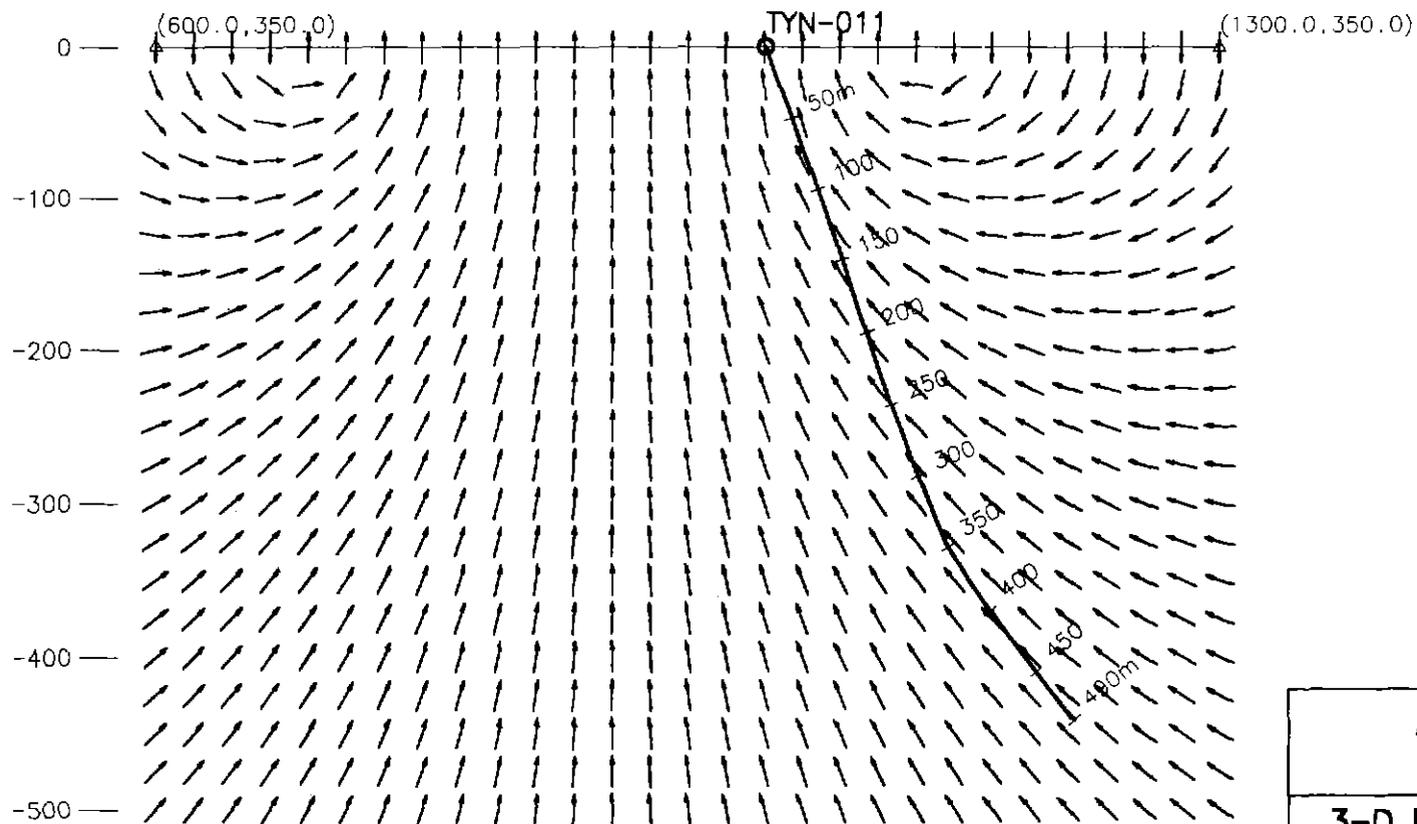


5 cm



<i>RGC Exploration</i> Basin Lake
3-D Borehole Pulse EM Survey Borehole & Loop Location Map
Hole: TYN-011 Survey Date: Oct 29, 1995
<i>Outer-Rim Exploration Services</i>

323214



5 cm

Scale 1:5000
 50 0 50 100
 (meters)

<i>RGC Exploration</i> Basin Lake
3-D Borehole Pulse EM Survey Hole Section with Primary Field
Hole: TYN-011 Survey Date: Oct 29, 1995
<i>Outer-Rim Exploration Services</i>

323215

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: RGC Exploration	Hole	: TYN-011
Grid	: Basin Lake	Tx Loop	: Collar
Date	: Oct 29, 1995	File name	: T11Z.PEM
Time Base	: 20.00 ms	# Readings	: 66
Ramp Time	: 1.00 ms	Stn Units	: Metric
# Channels	: 20	Coil Area	: 6500 sq m
Sync Type	: Cable	Polarity	: +
Loop Size	: 400m X 400m	Receiver	: Digital #108
Current	: 11 Amps	Operator	: Kent Honner

Loop Coordinates (X,Y,Z)

1. 700m, 200m, 0m	2. 1100m, 200m, 0m
3. 1100m, 600m, 0m	4. 700m, 600m, 0m

Hole Coordinates (X,Y,Z) or (Azimuth,Dip,Length)

1. 1001m, 347m, 0m	2. 90deg, 70deg, 105m
3. 90deg, 71deg, 30m	4. 90deg, 72deg, 30m
5. 90deg, 71deg, 60m	6. 89deg, 70deg, 30m
7. 90deg, 69.5deg, 30m	8. 89deg, 68.7deg, 30m
9. 87deg, 67.2deg, 30m	10. 86deg, 58.8deg, 30m
11. 84.5deg, 54deg, 30m	12. 87deg, 53deg, 30m
13. 88deg, 52deg, 30m	14. 89.5deg, 51deg, 25m

Channel Times (usec)

Ch	Start	End	Center	Ch	Start	End	Center	Ch	Start	End	Center	
PP	-198	-99	-149	1	76	104	90	2	104	131	117	
	3	131	171	151	4	171	225	198	5	225	292	259
	6	292	378	335	7	378	490	434	8	490	639	565
	9	639	828	733	10	828	1075	952	11	1075	1395	1235
	12	1395	1809	1602	13	1809	2348	2078	14	2348	3046	2697
	15	3046	3951	3498	16	3951	5121	4536	17	5121	6646	5884
	18	6646	8617	7632	19	8617	11170	9894	20	11170	14490	12830

General Comments

Three large powerlines run N-S through the loop.

323217

OUTER-RIM EXPLORATION SERVICES

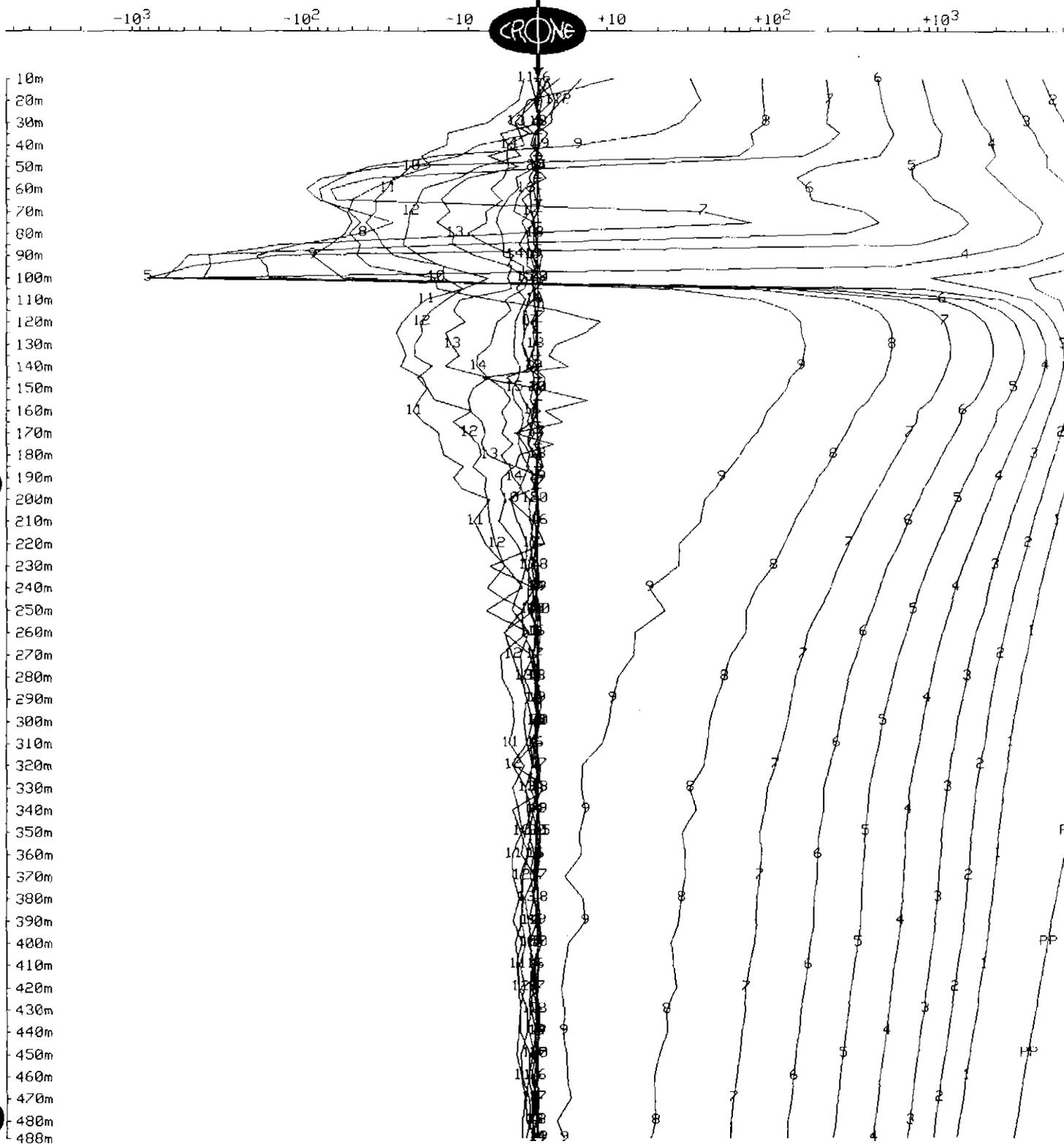
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : T11Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500



323218

OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

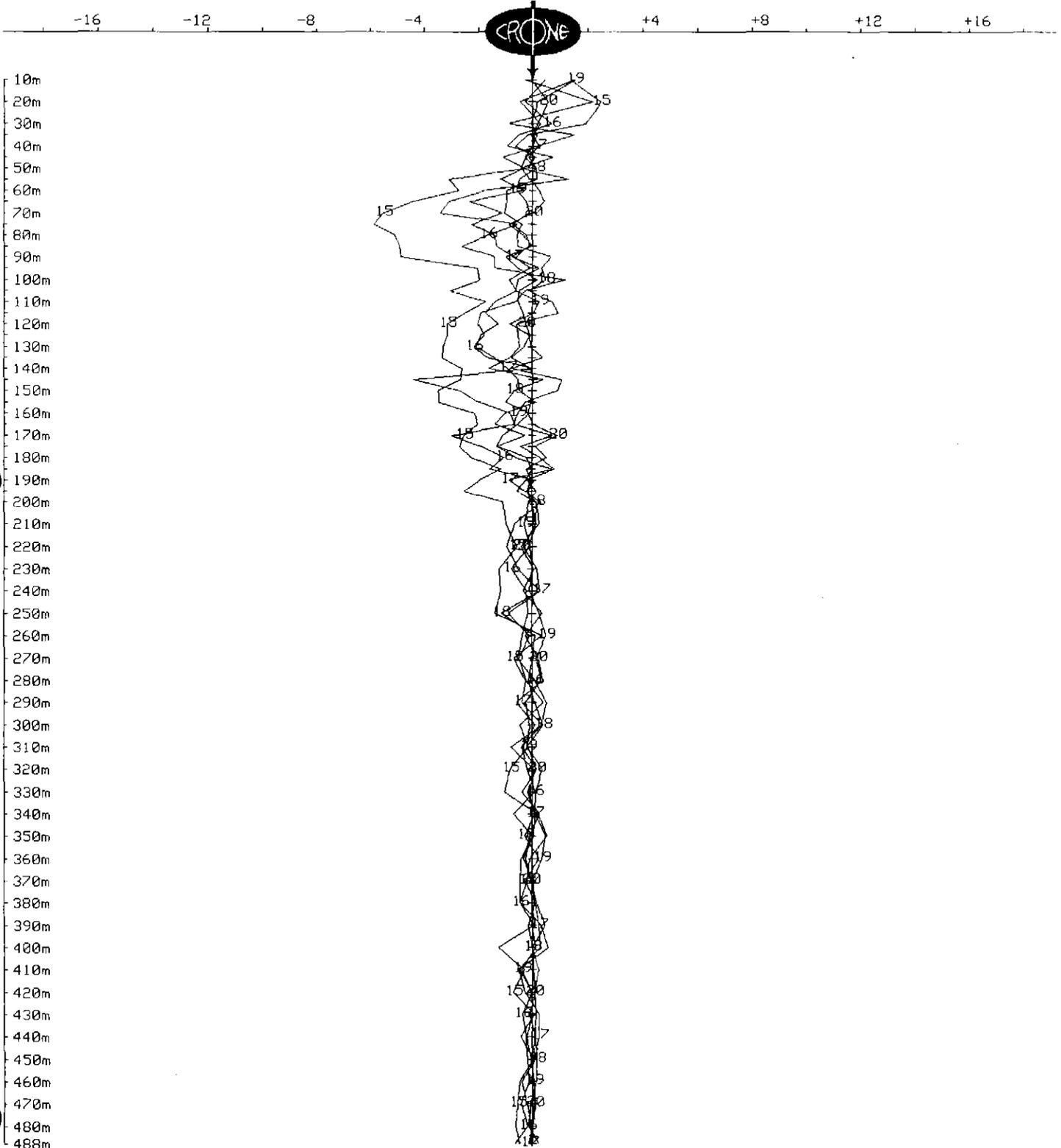
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : T11Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 2 nT/



323219

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

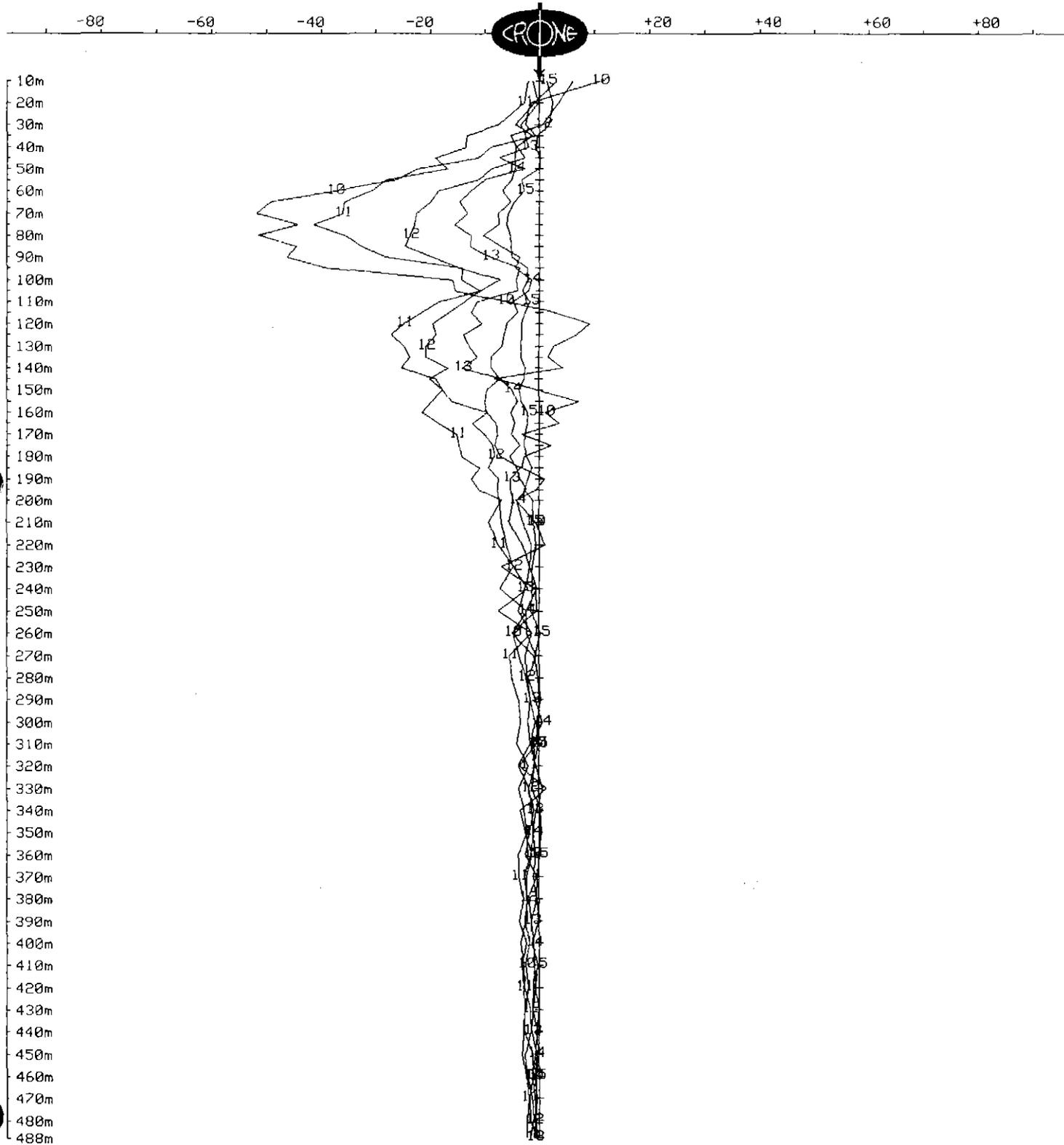
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : T11Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 10 nT/



323220

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System
BOREHOLE PEM

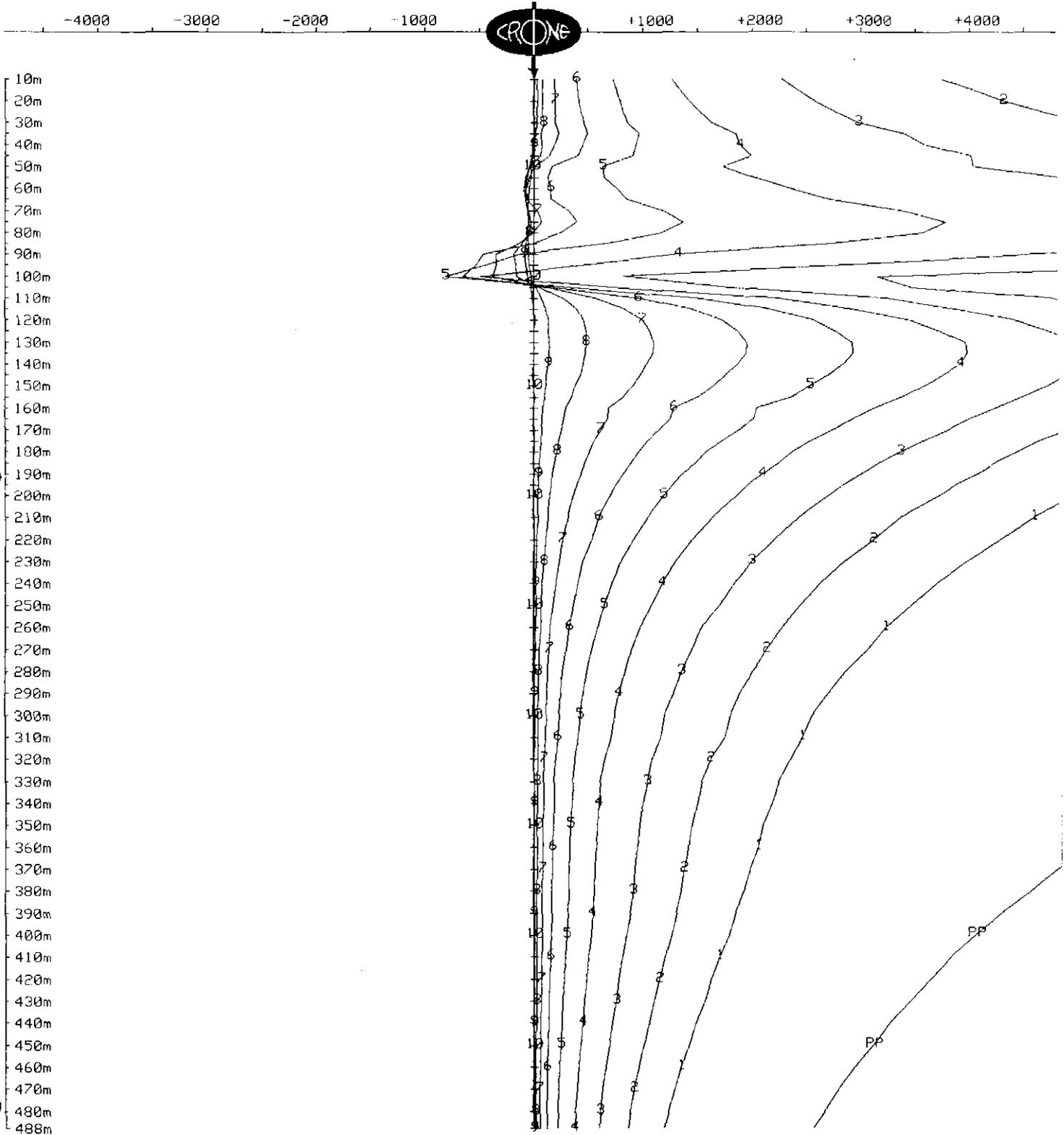
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : T11Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

Unit Scale: 1cm = 500 nT/



5 cm

323221

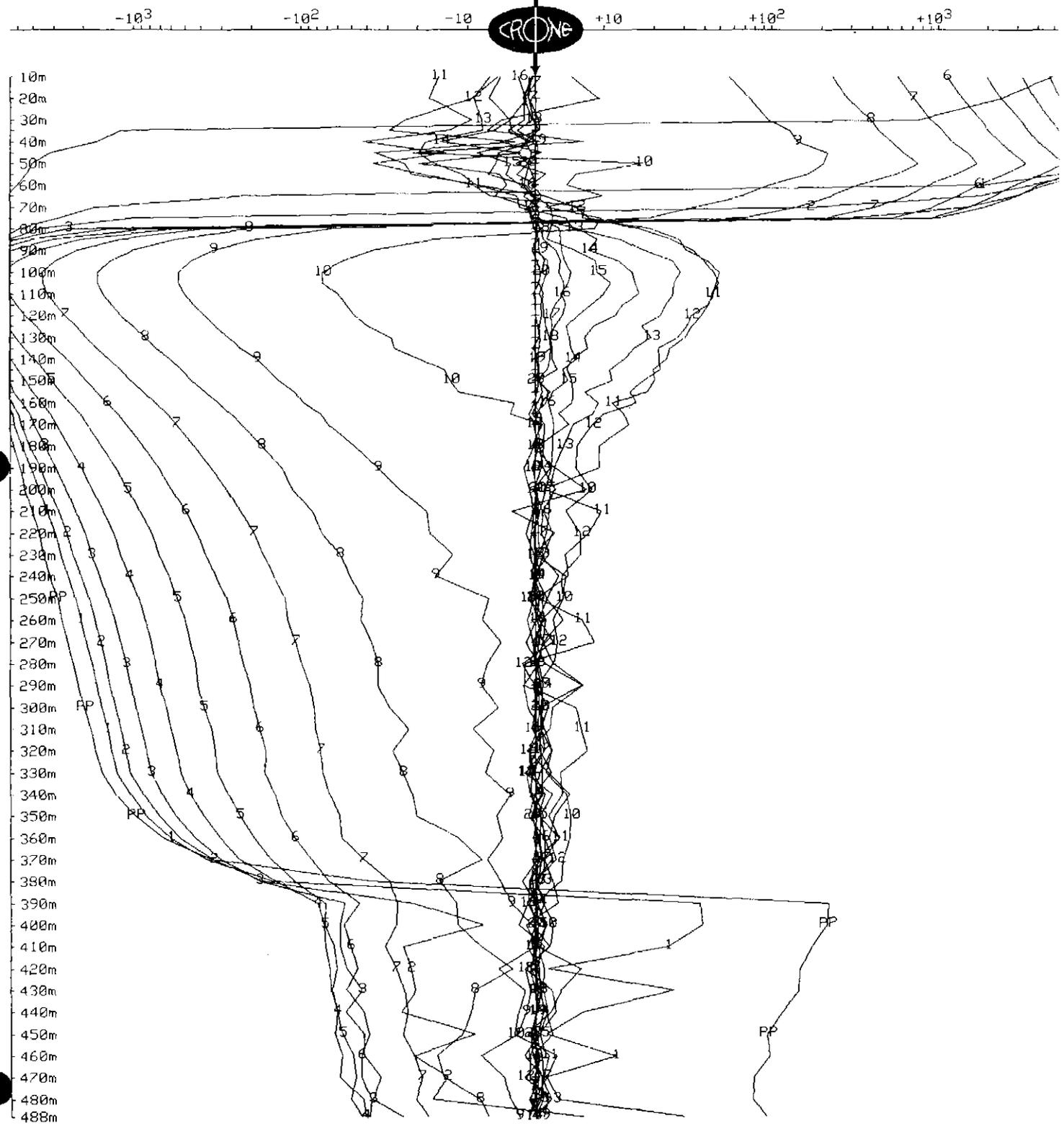
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500



5 cm

323222

OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

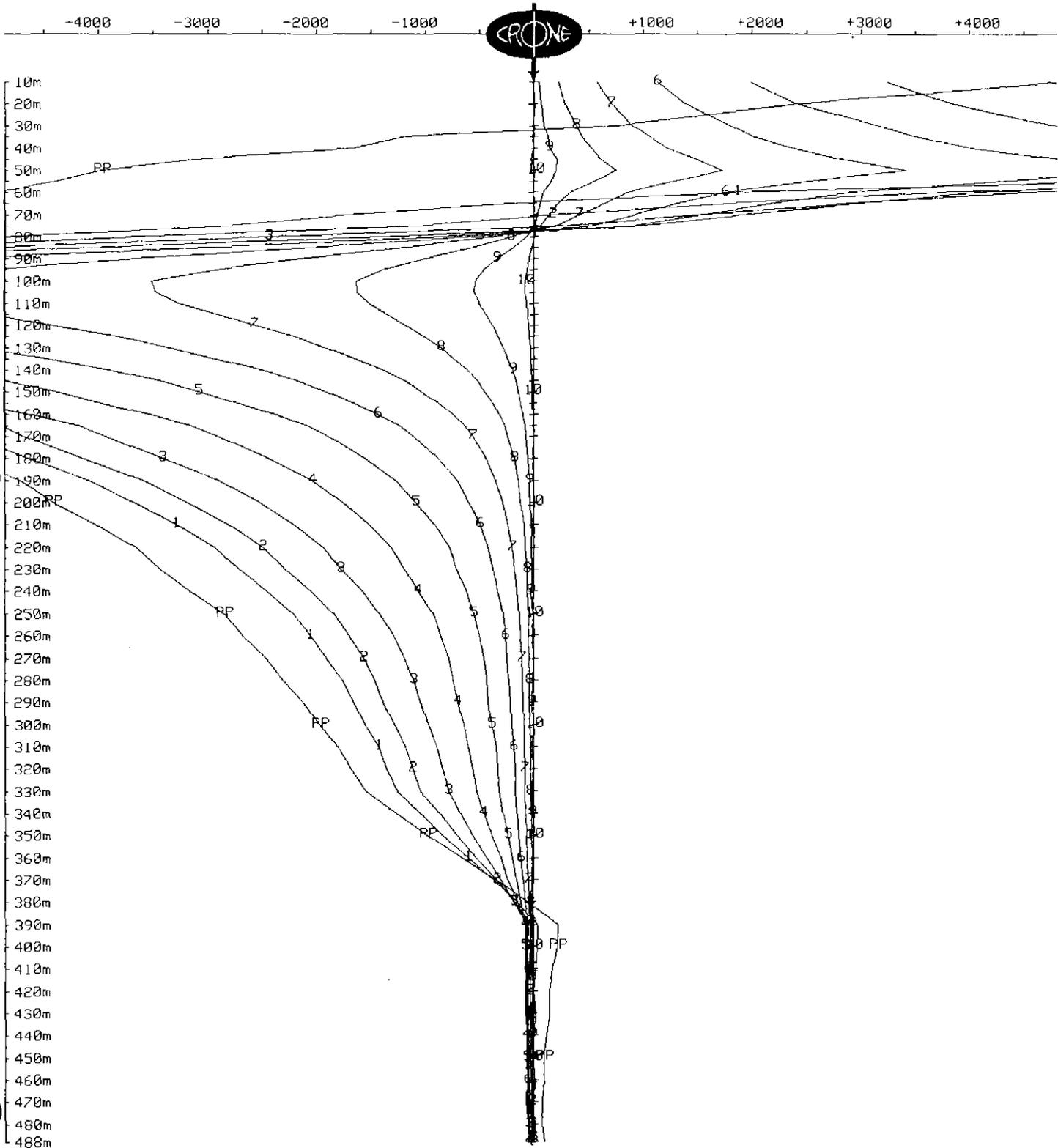
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

Unit Scale: 1cm = 500 nT/



323223

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

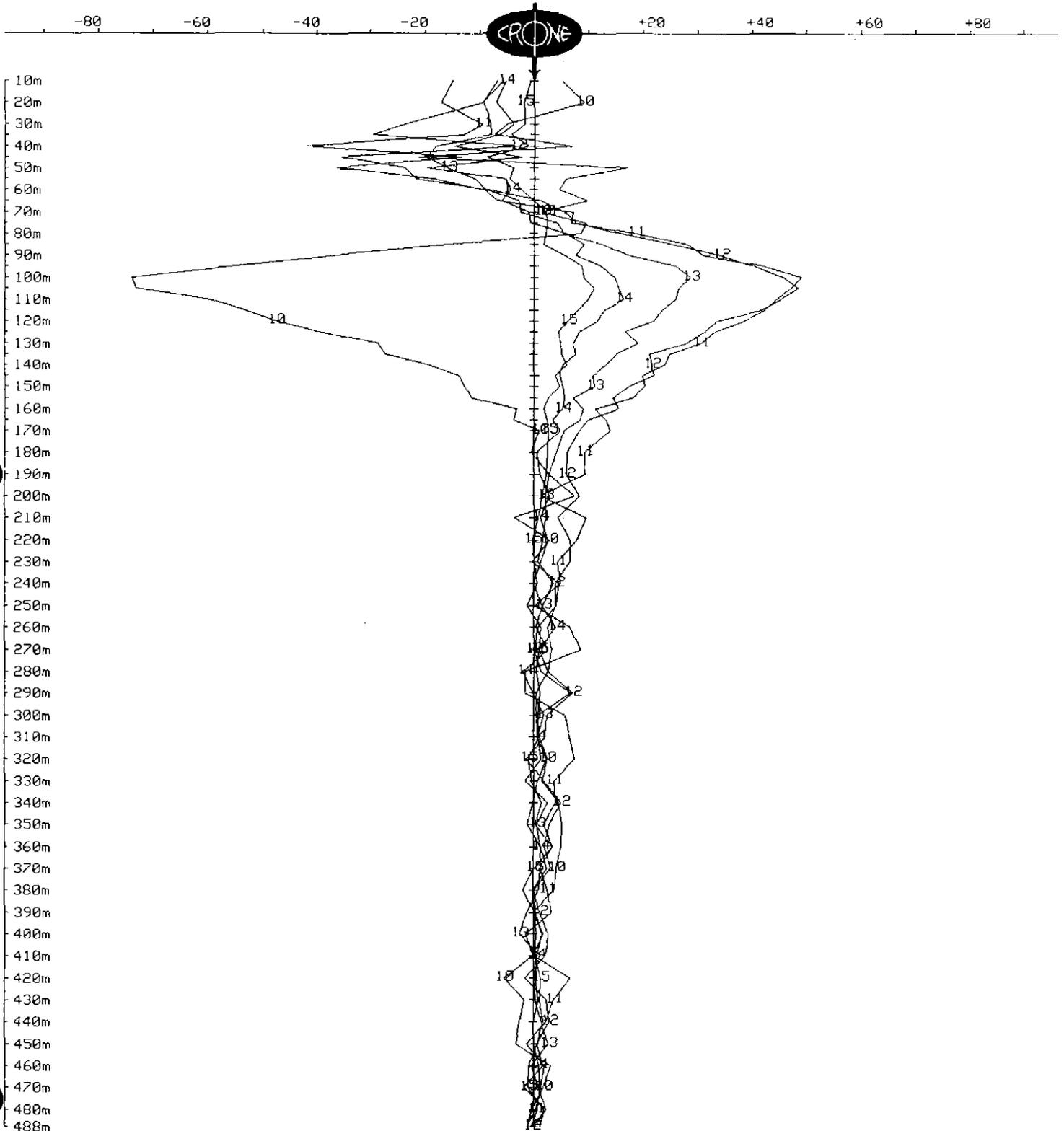
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 10 nT/:



323224

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

BOREHOLE PEM

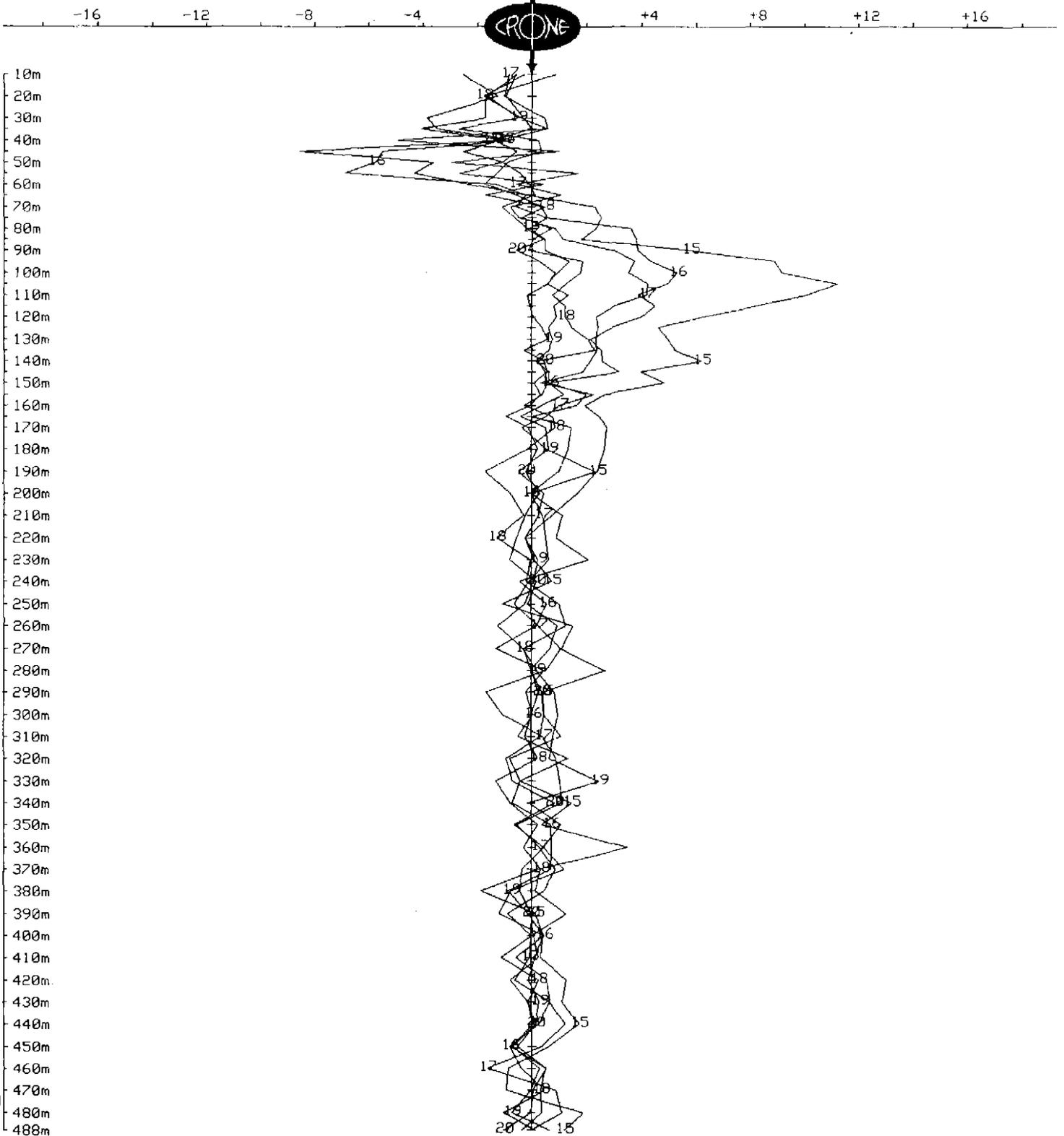
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Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 2 nT/



323225

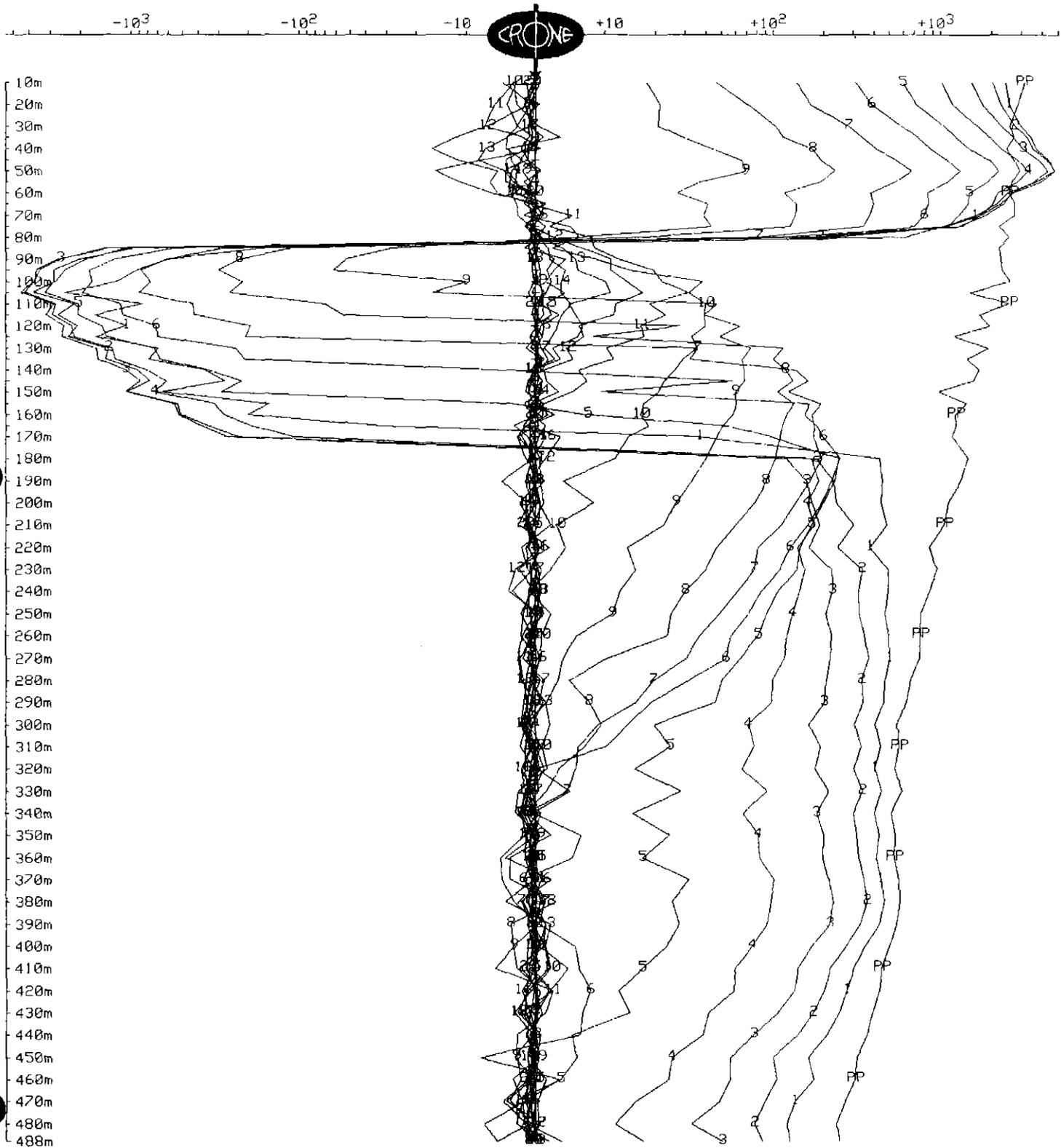
OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500



5 cm

323226

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

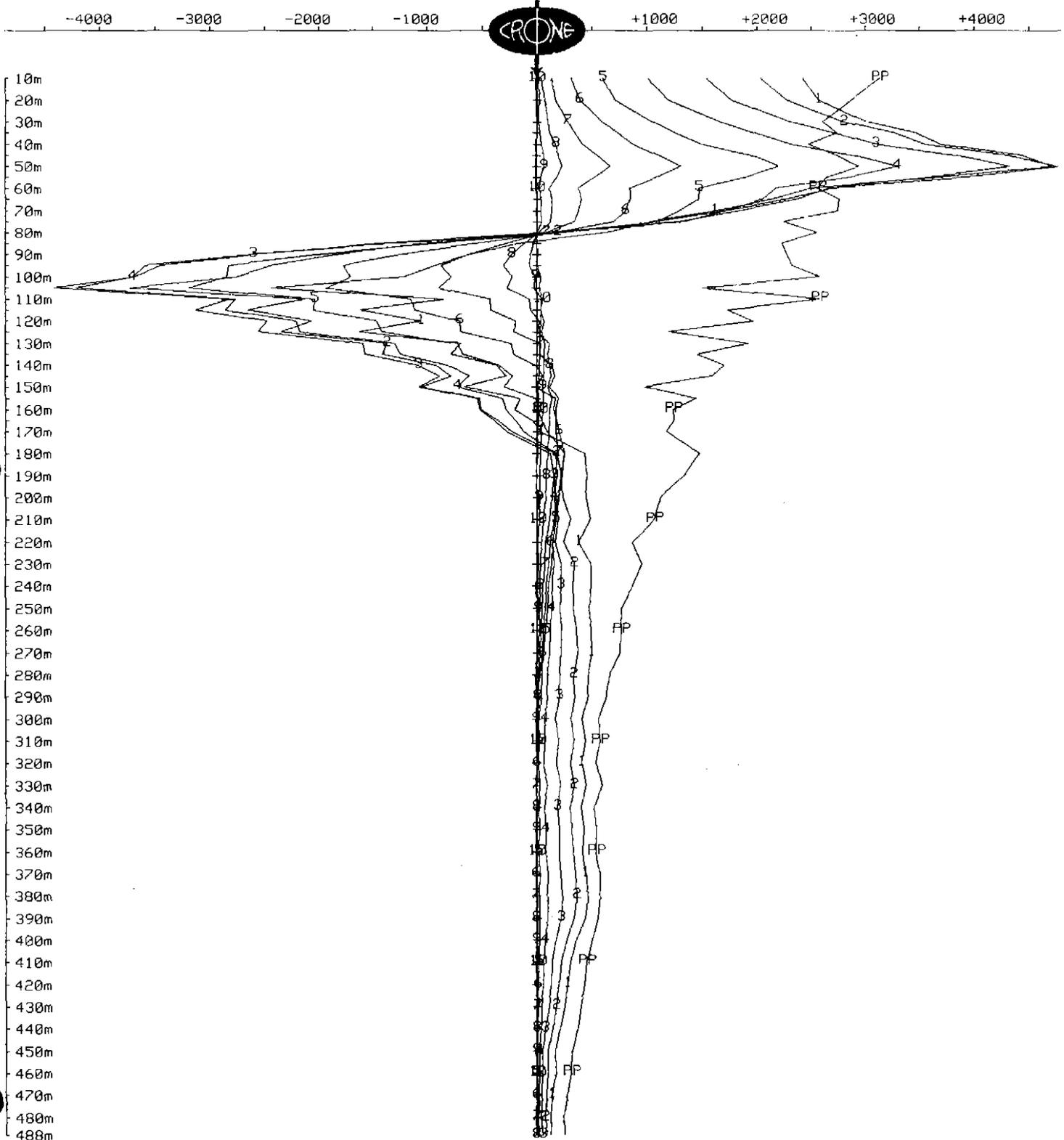
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

Unit Scale: 1cm = 500 nT/



5 cm

323227

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

BOREHOLE PEM

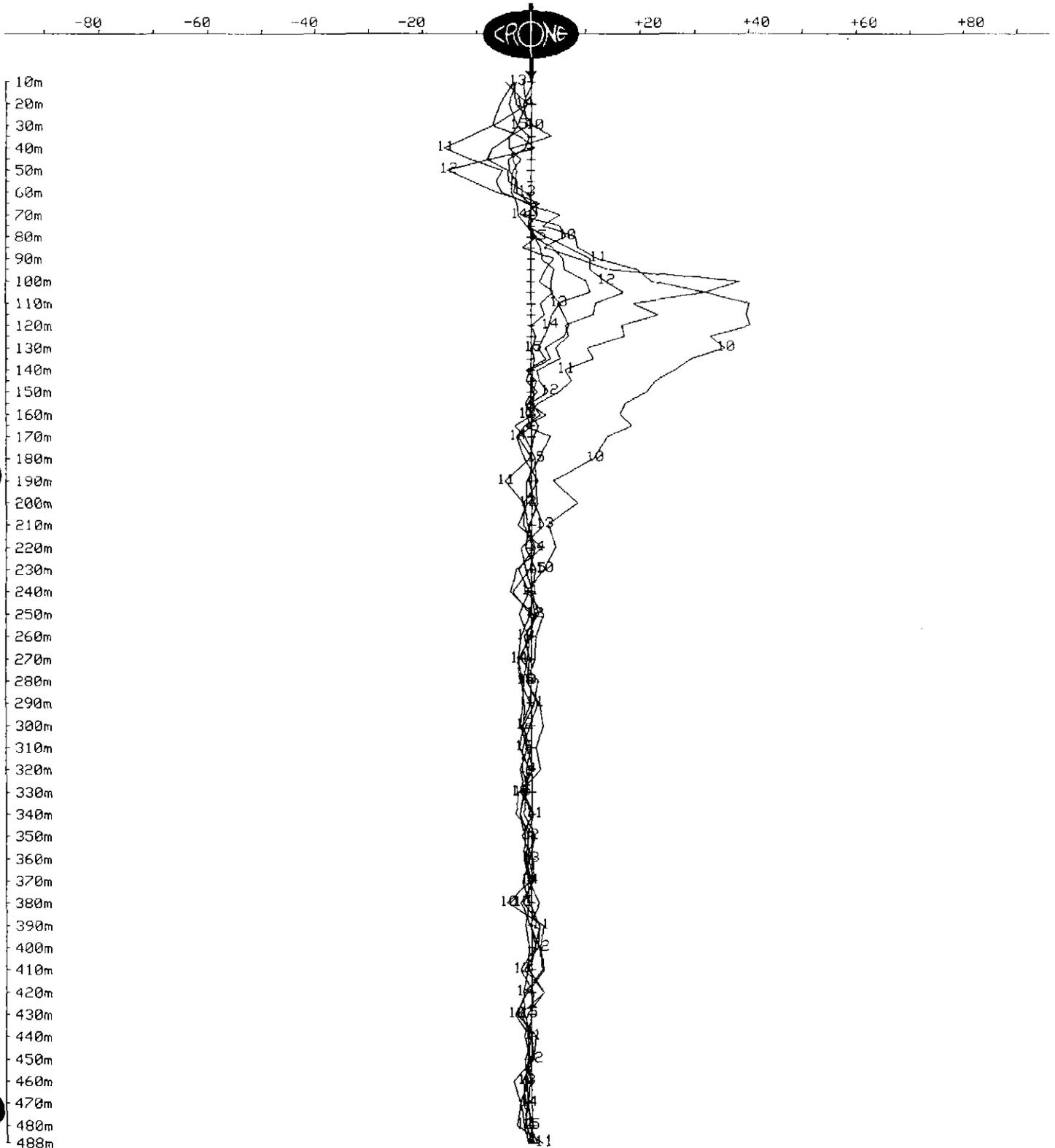
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 10 nT/



323223

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

BOREHOLE PEM

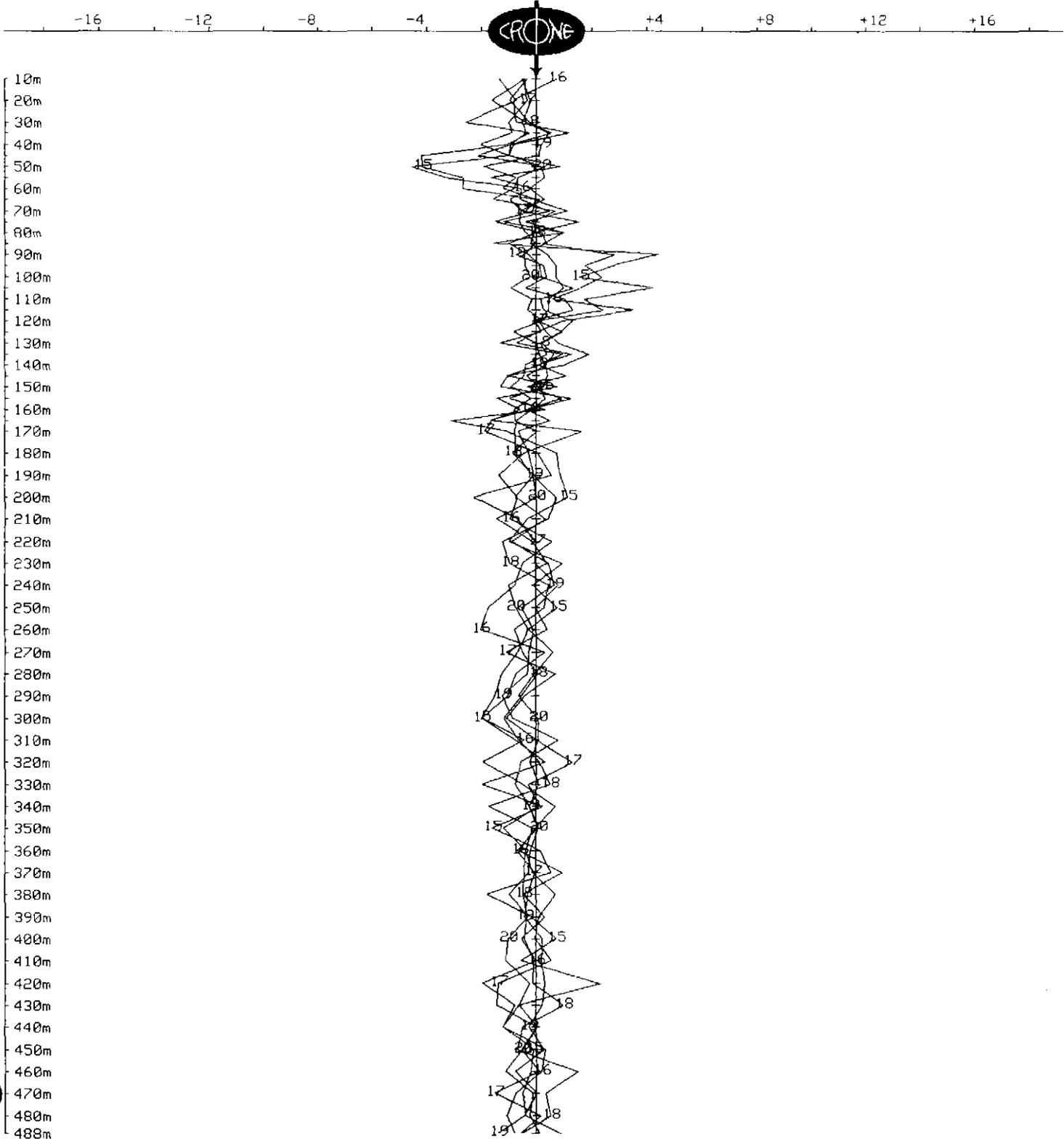
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Grid : Basin Lake
Date : Oct 29, 1995

Hole : TYN-011
Tx Loop : Collar
File name : TYN11XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #0
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:2500

Unit Scale: 1cm = 2 nT/



5 cm

323229

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

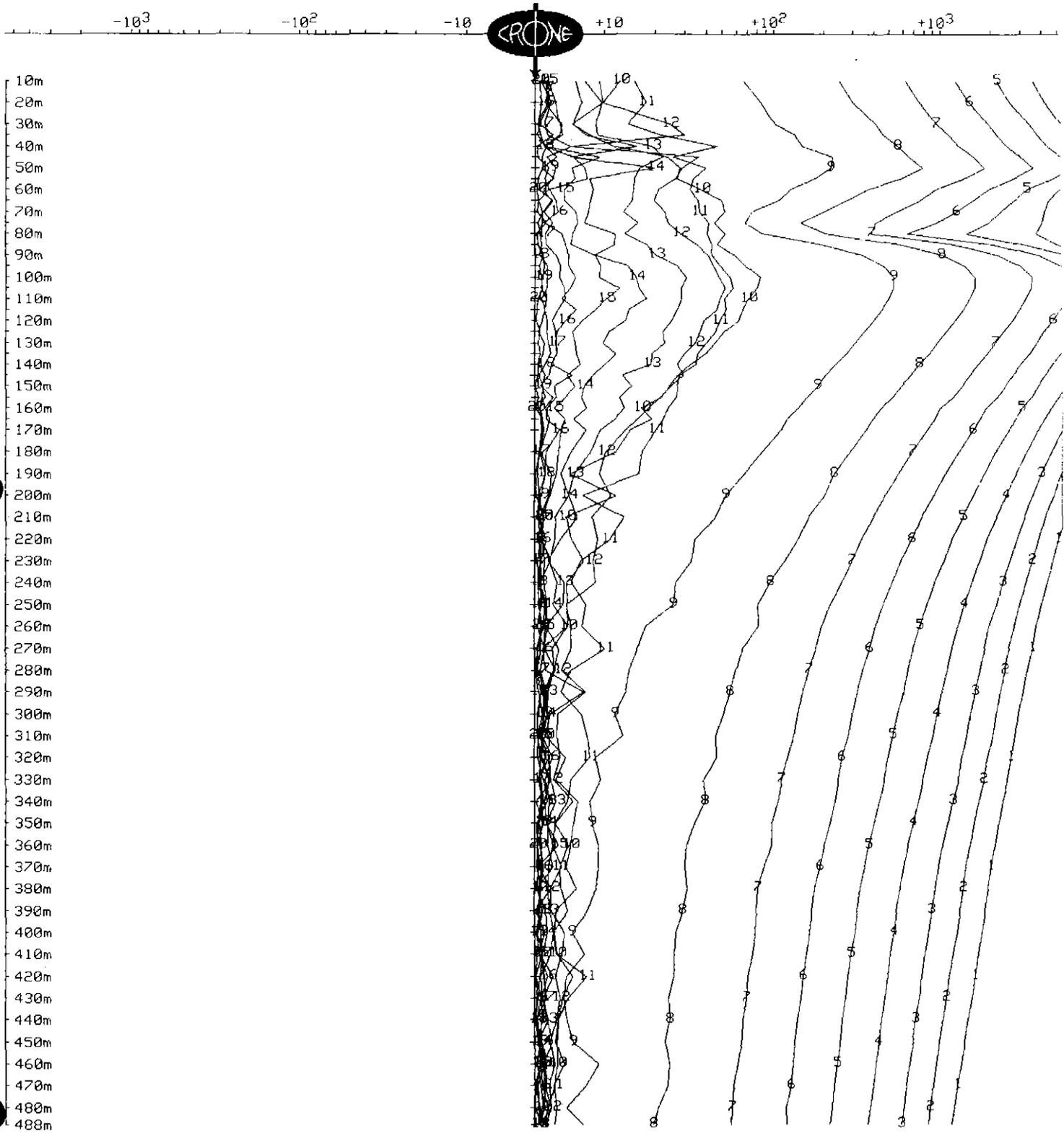
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 29, 1995

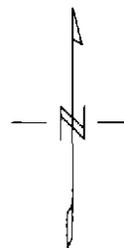
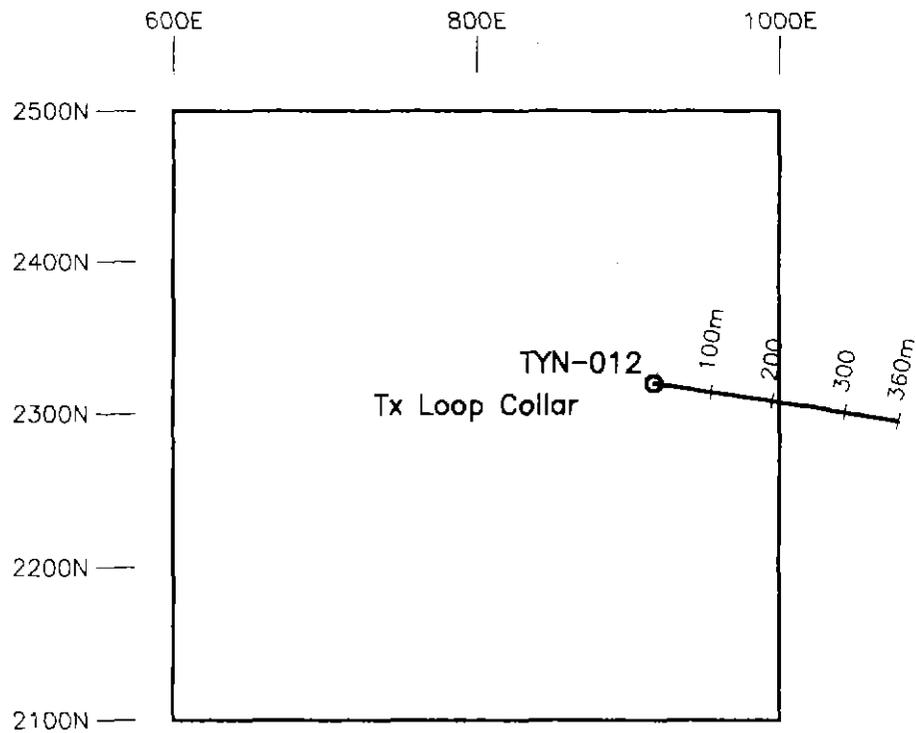
Hole : TYN-011
Tx Loop : Collar
File name : TY11XYZ.PEM

TOTAL FIELD dBxyz/dt nanoTesla/sec - 20 channels

Scale: 1:2500



5 cm

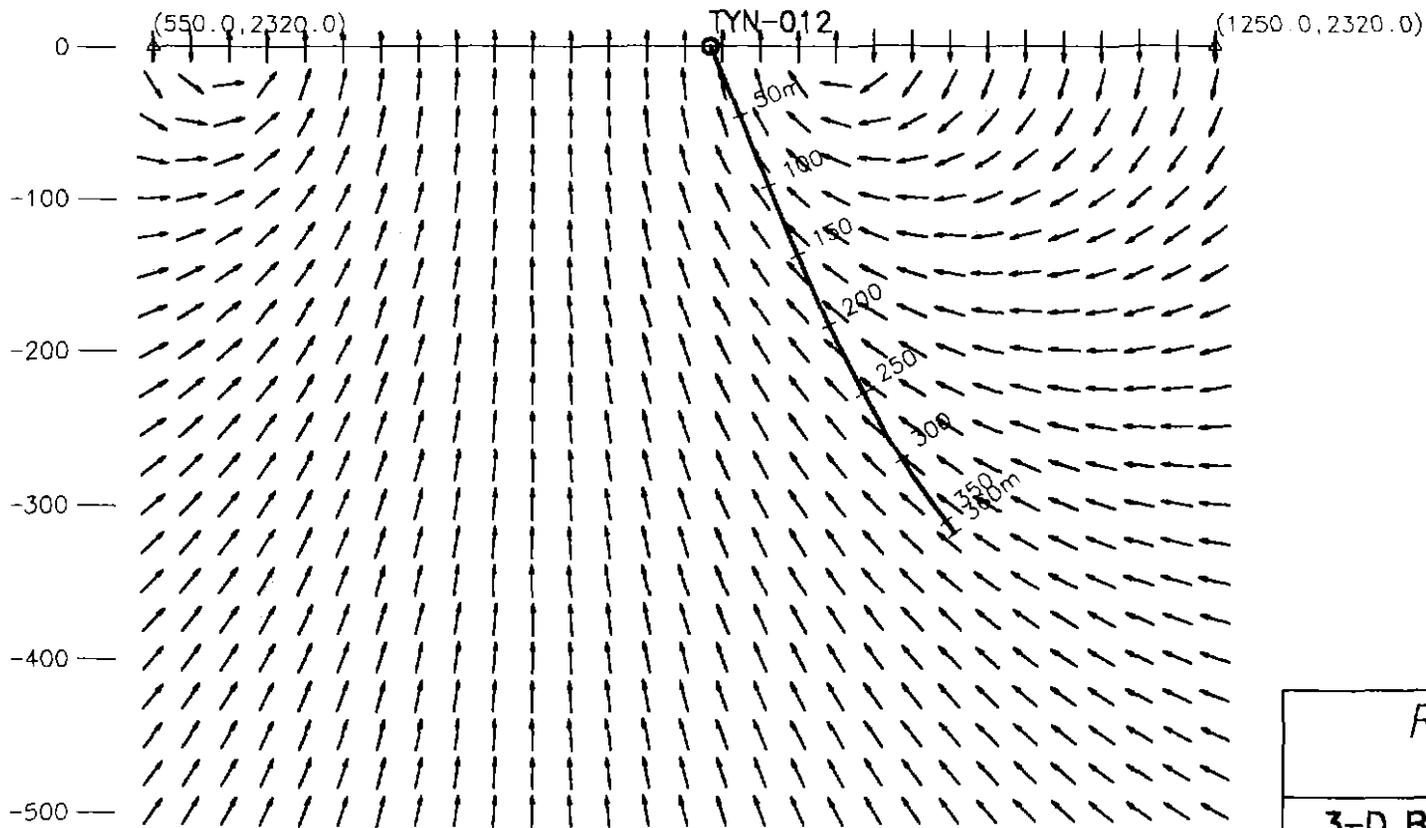


<i>RGC Exploration</i> Basin Lake
3-D Borehole Pulse EM Survey Borehole & Loop Location Map
Hole: TYN-012 Survey Date: Oct 31, 1995
<i>Outer-Rim Exploration Services</i>

5 cm

Scale 1:5000
100 0 100
(meters)

323230



<i>RGC Exploration</i> Basin Lake
3-D Borehole Pulse EM Survey Hole Section with Primary Field
Hole: TYN-012 Survey Date: Oct 31, 1995
<i>Outer-Rim Exploration Services</i>

323231

323233

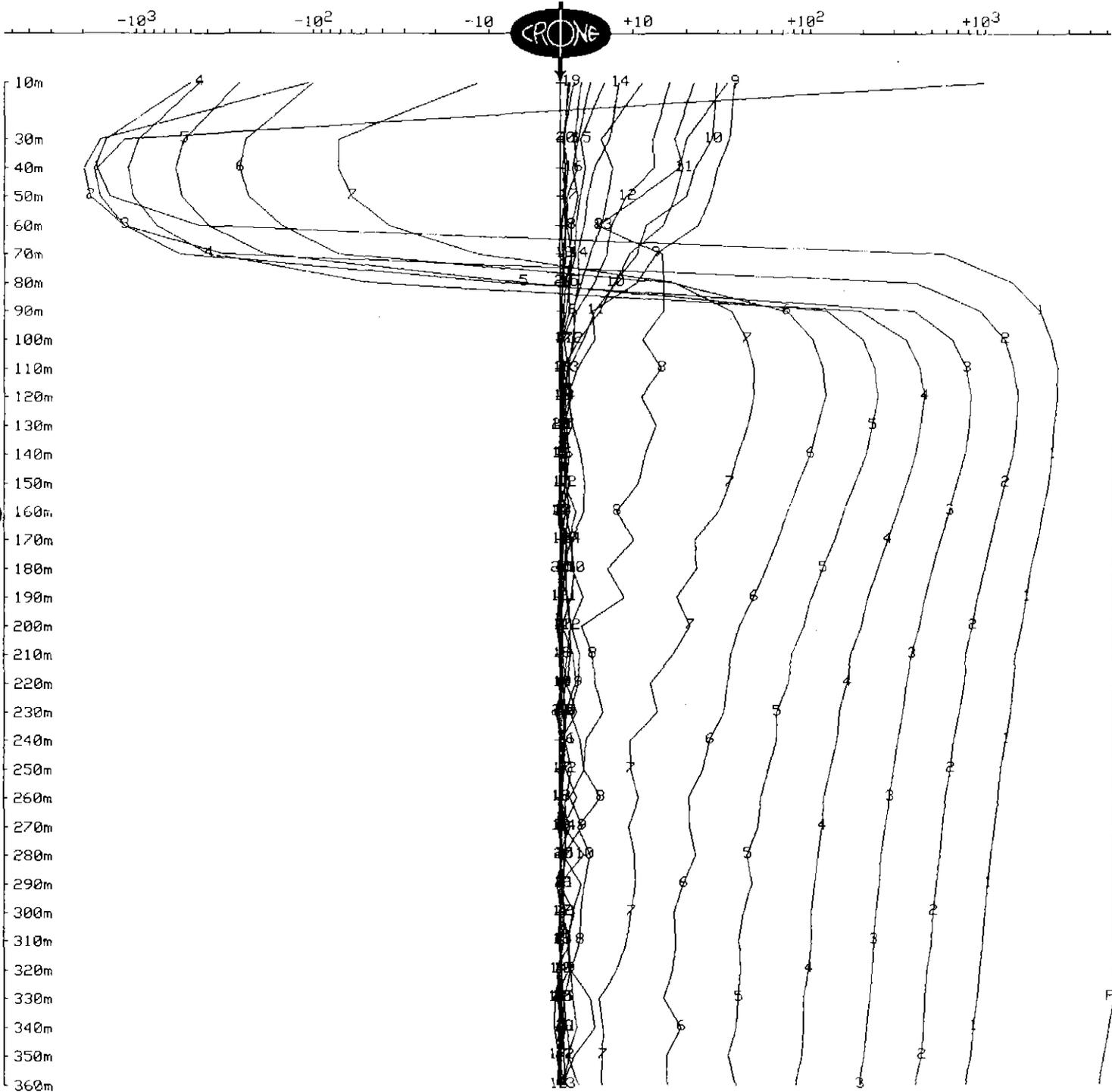
OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



5 cm

323234

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

BOREHOLE PEM

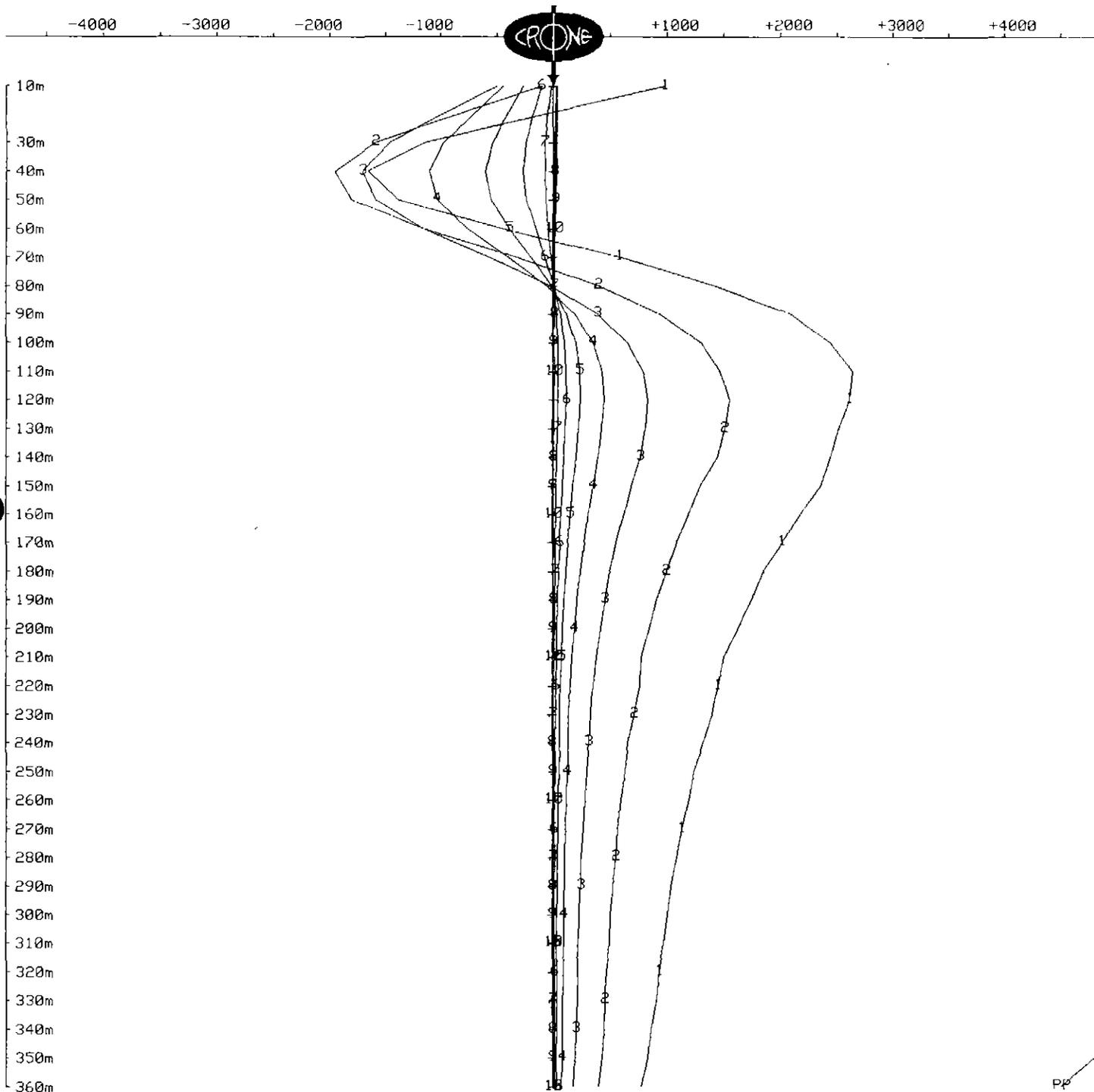
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000

Unit Scale: 1cm = 500 nT/s



323235

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

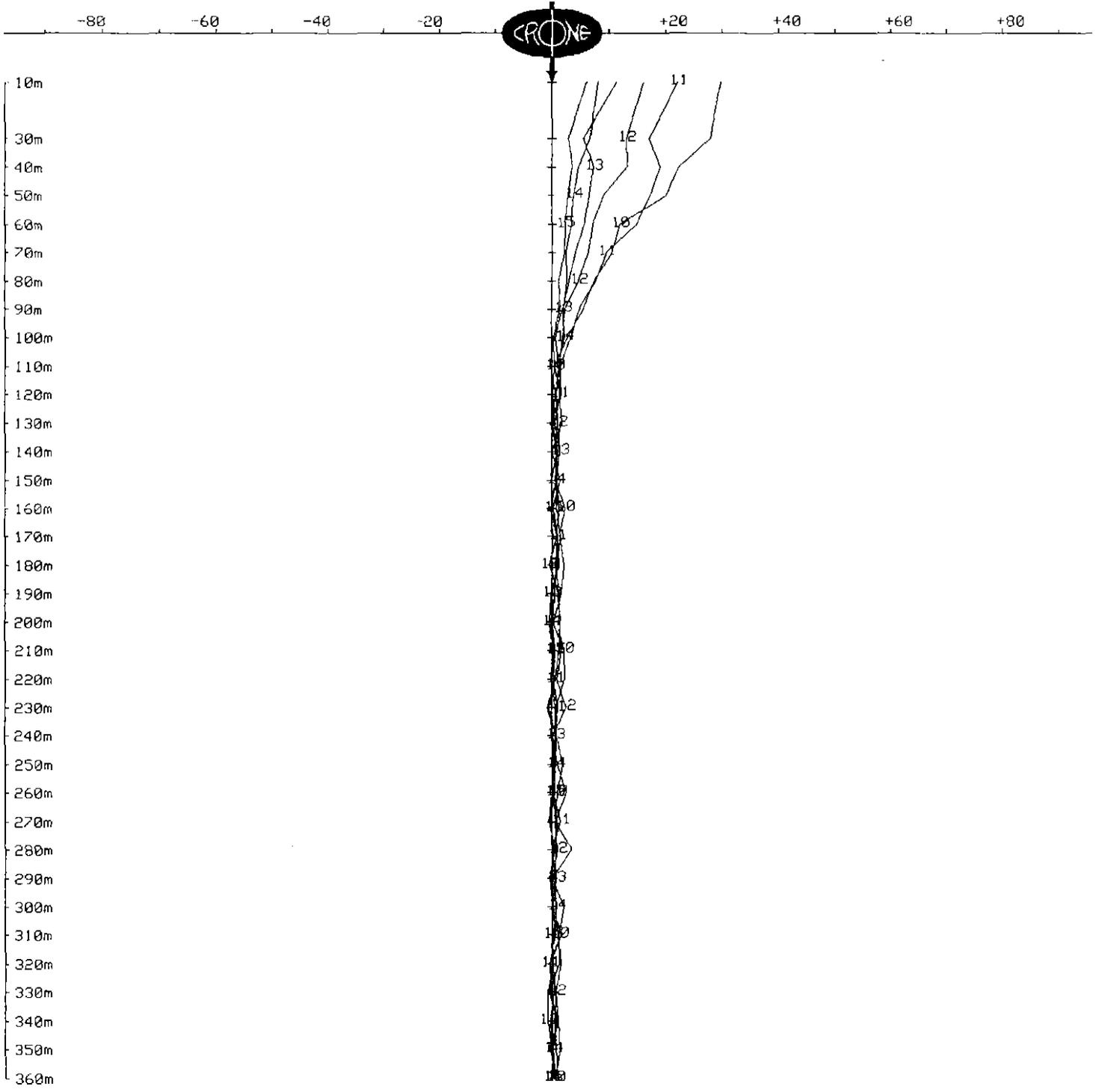
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 10 nT/



323236
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

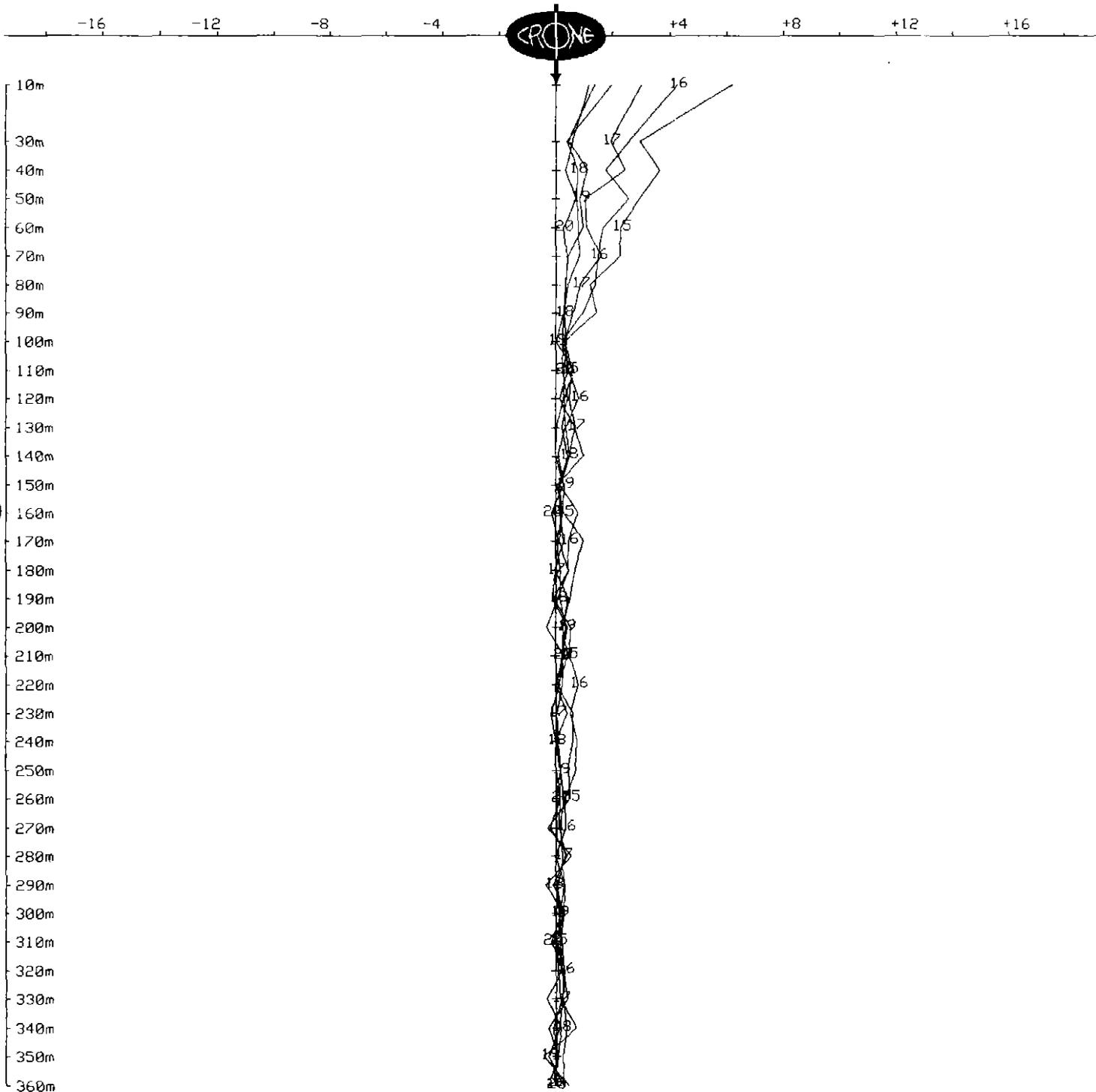
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 2 nT/



323237

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

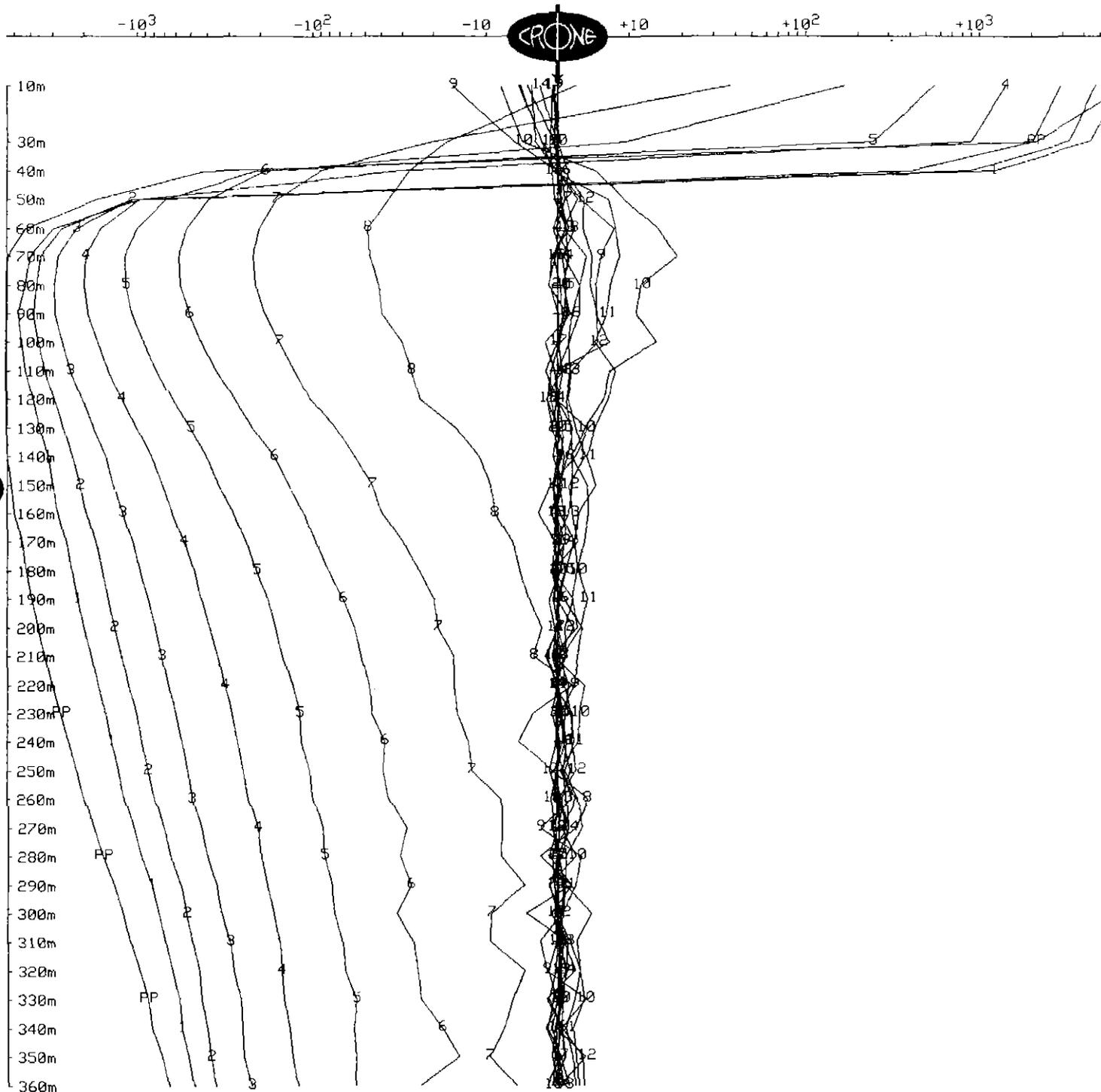
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



5 cm

323238

OUTER-RIM EXPLORATION SERVICES

Operating Crane PEM System

BOREHOLE PEM

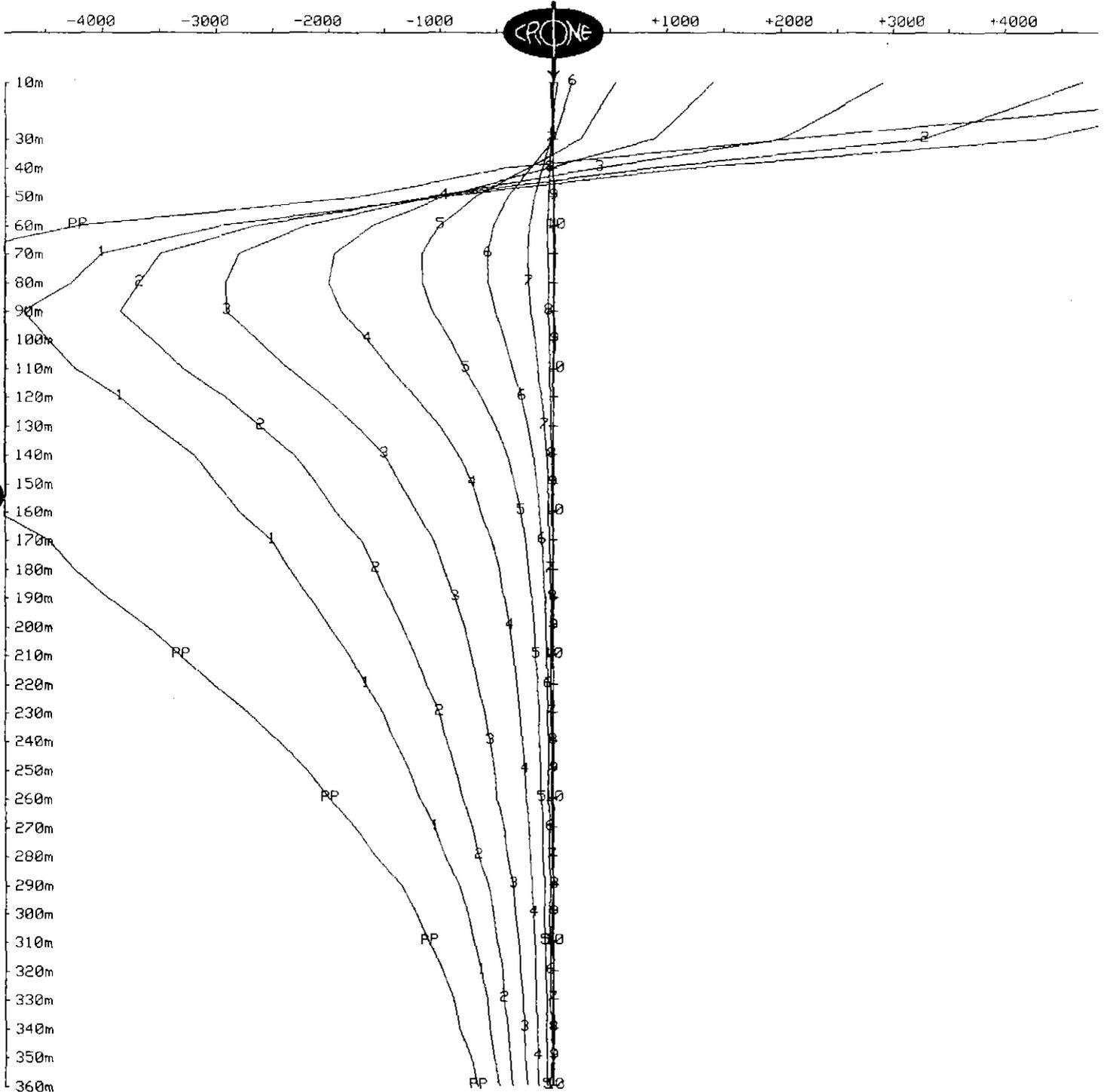
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000

Unit Scale: 1cm = 500 nT/



5 cm

323239

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

BOREHOLE PEM

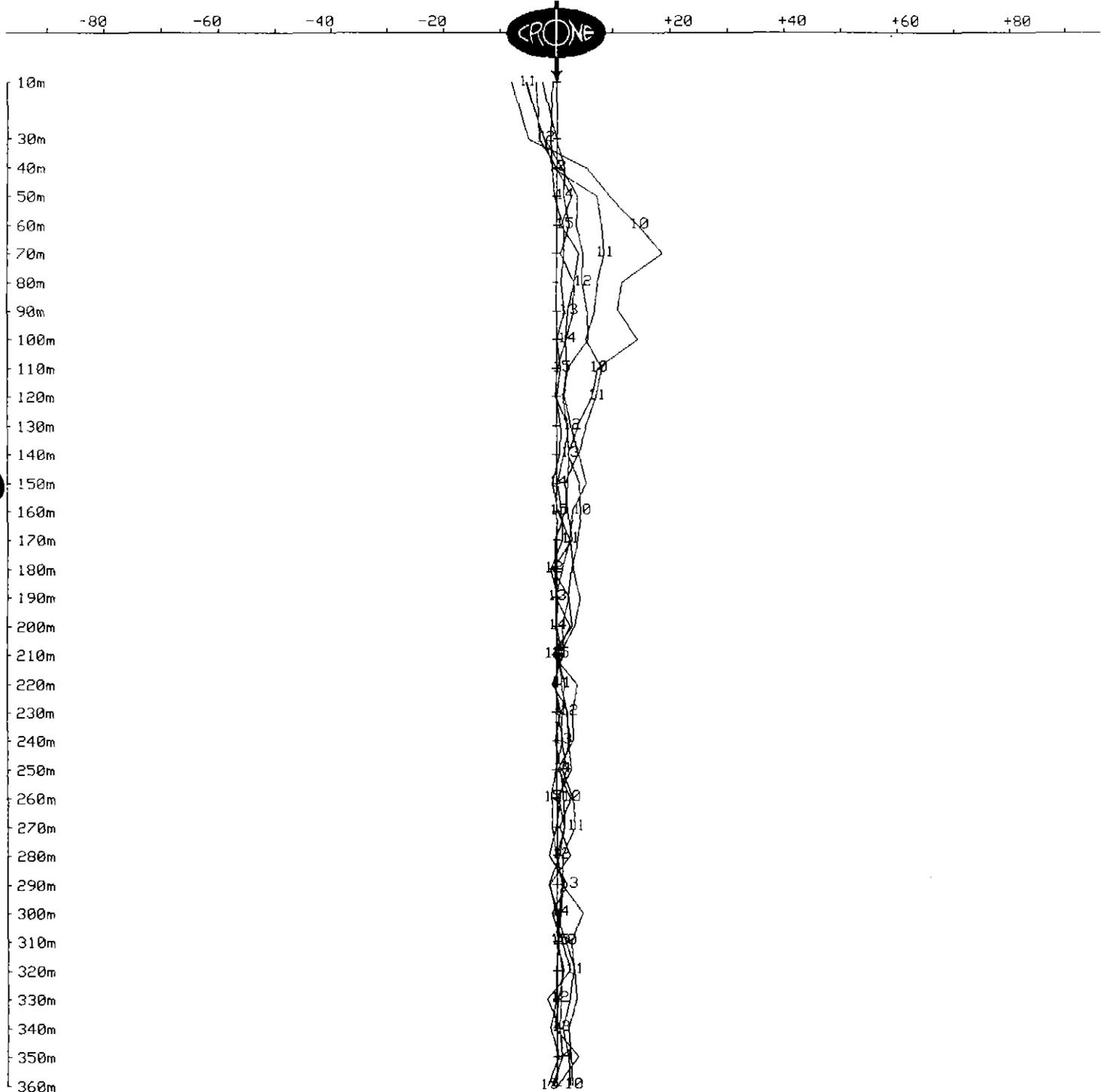
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 10 nT/:



323240

OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

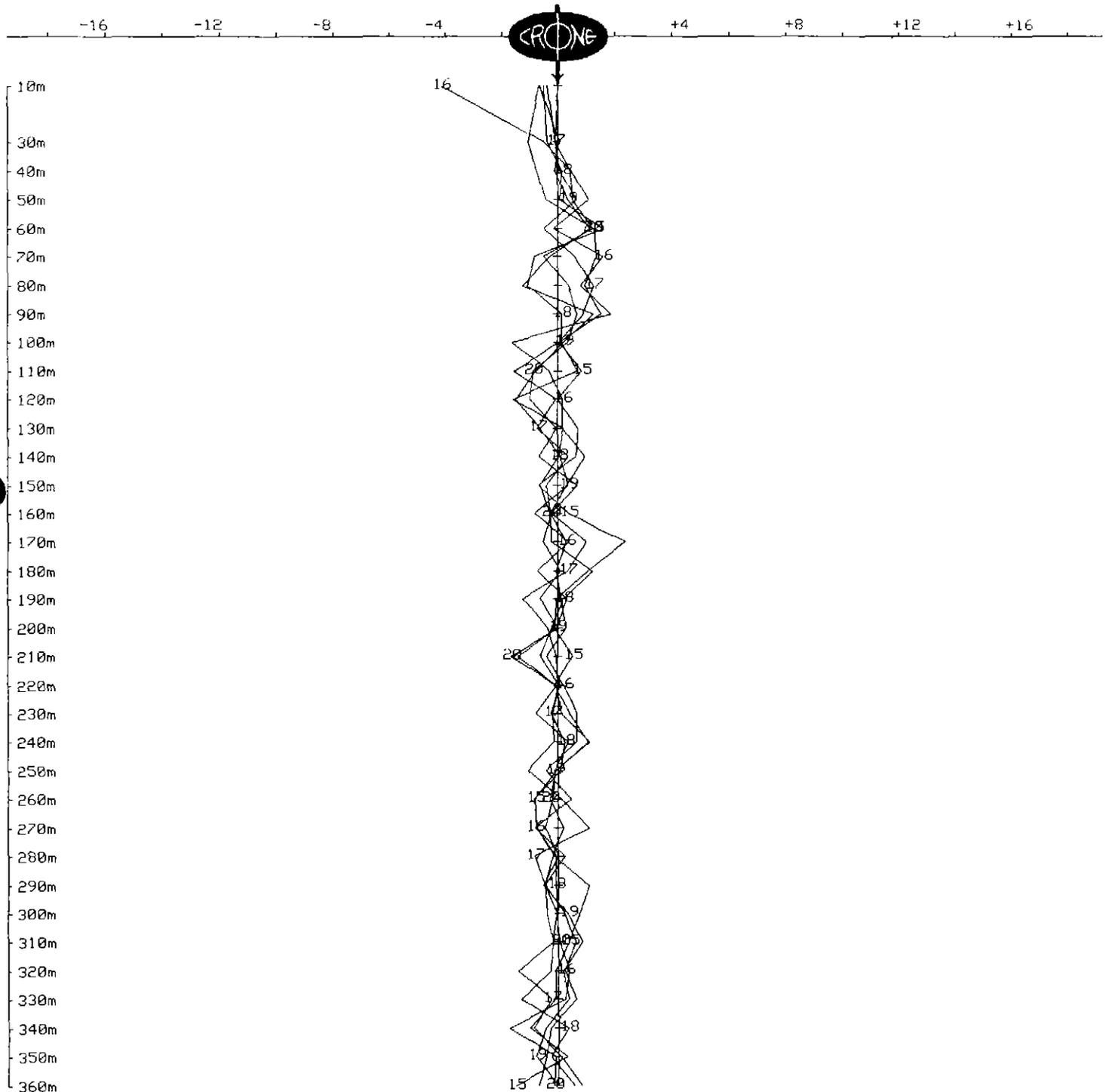
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 2 nT/:



323241

OUTER-RIM EXPLORATION SERVICES

Operating Crone PEM System

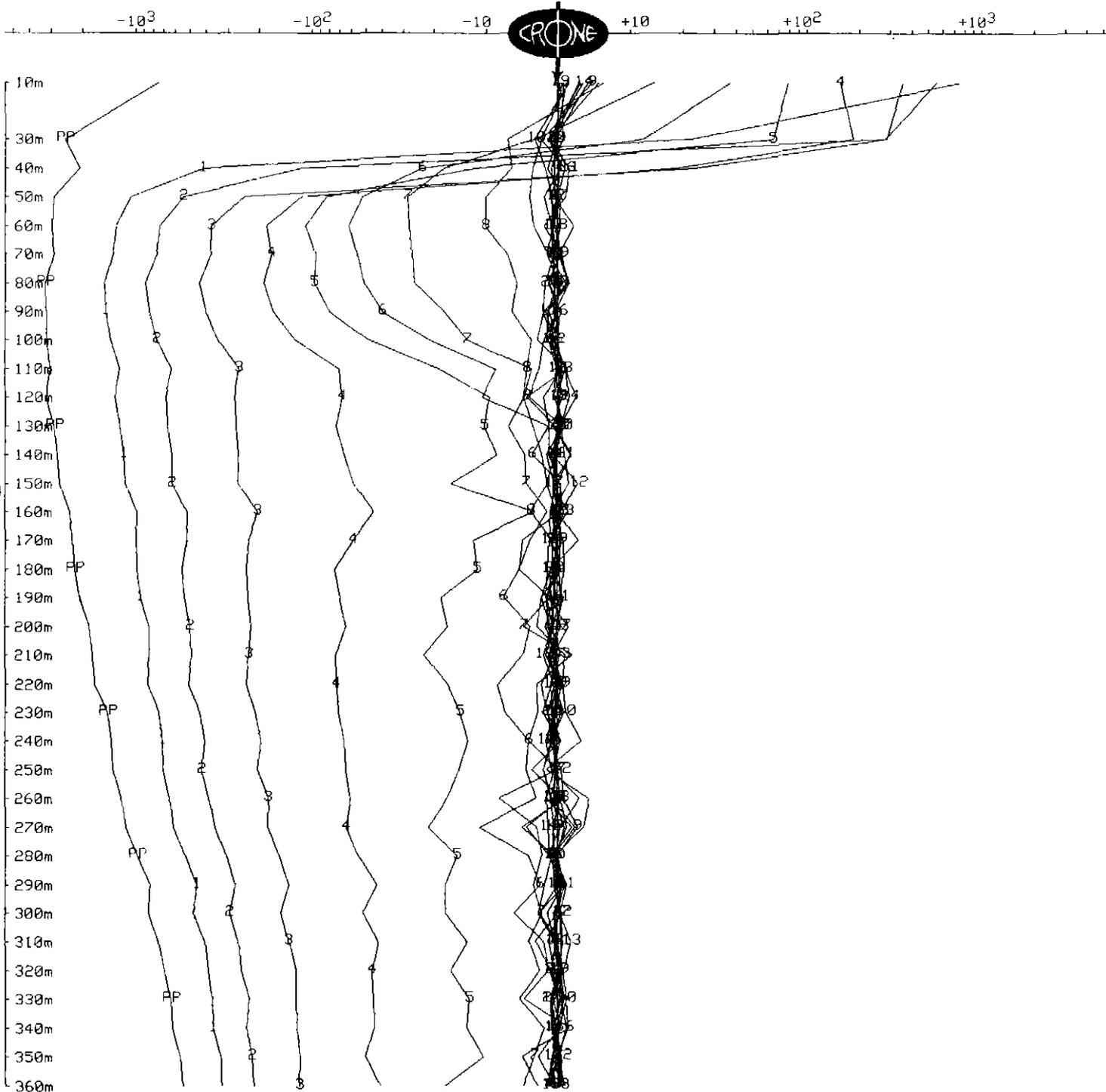
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



323242

OUTER-RIM EXPLORATION SERVICES Operating Crone PEM System BOREHOLE PEM

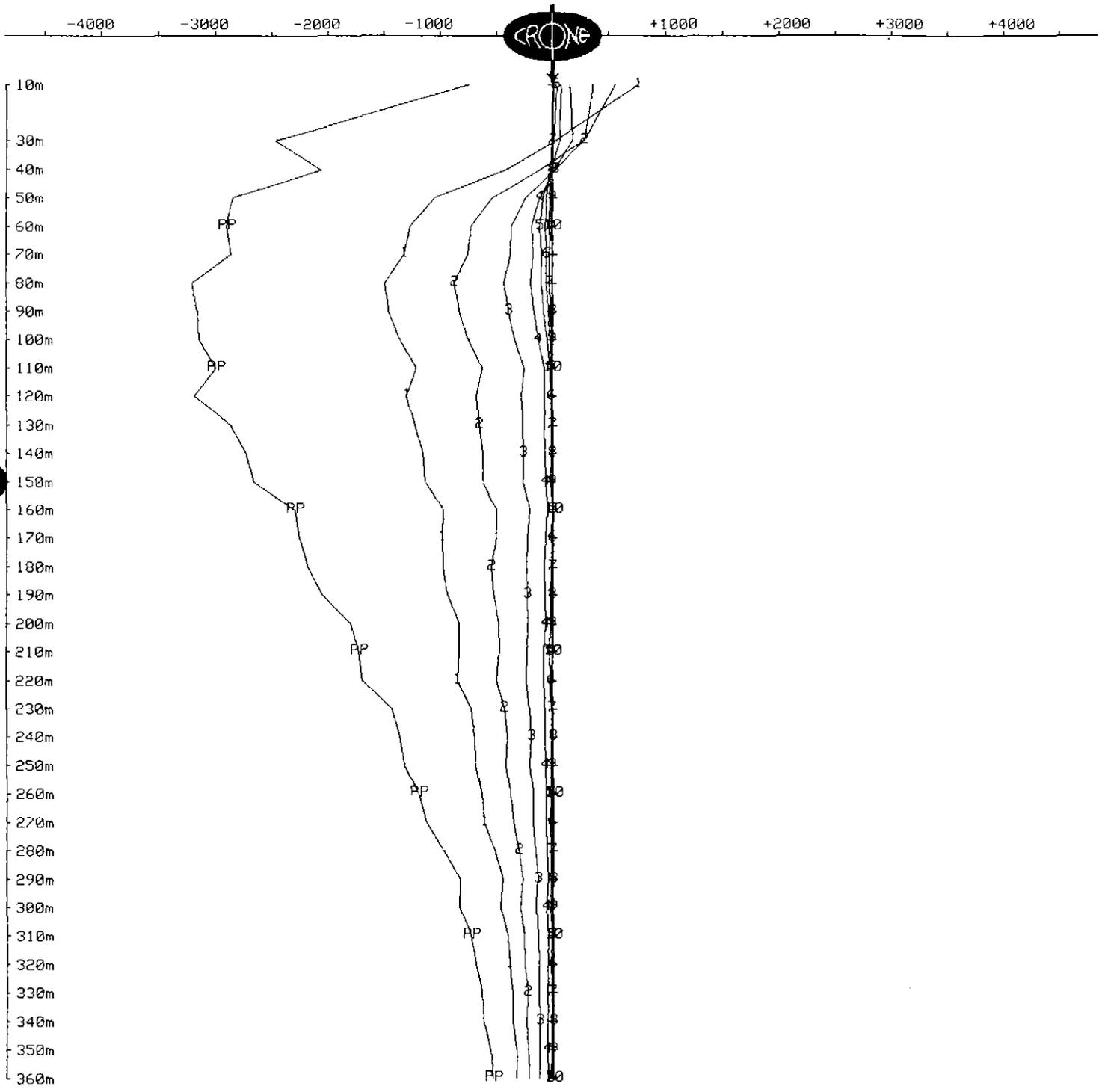
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000

Unit Scale: 1cm = 500 nT/s



323243

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

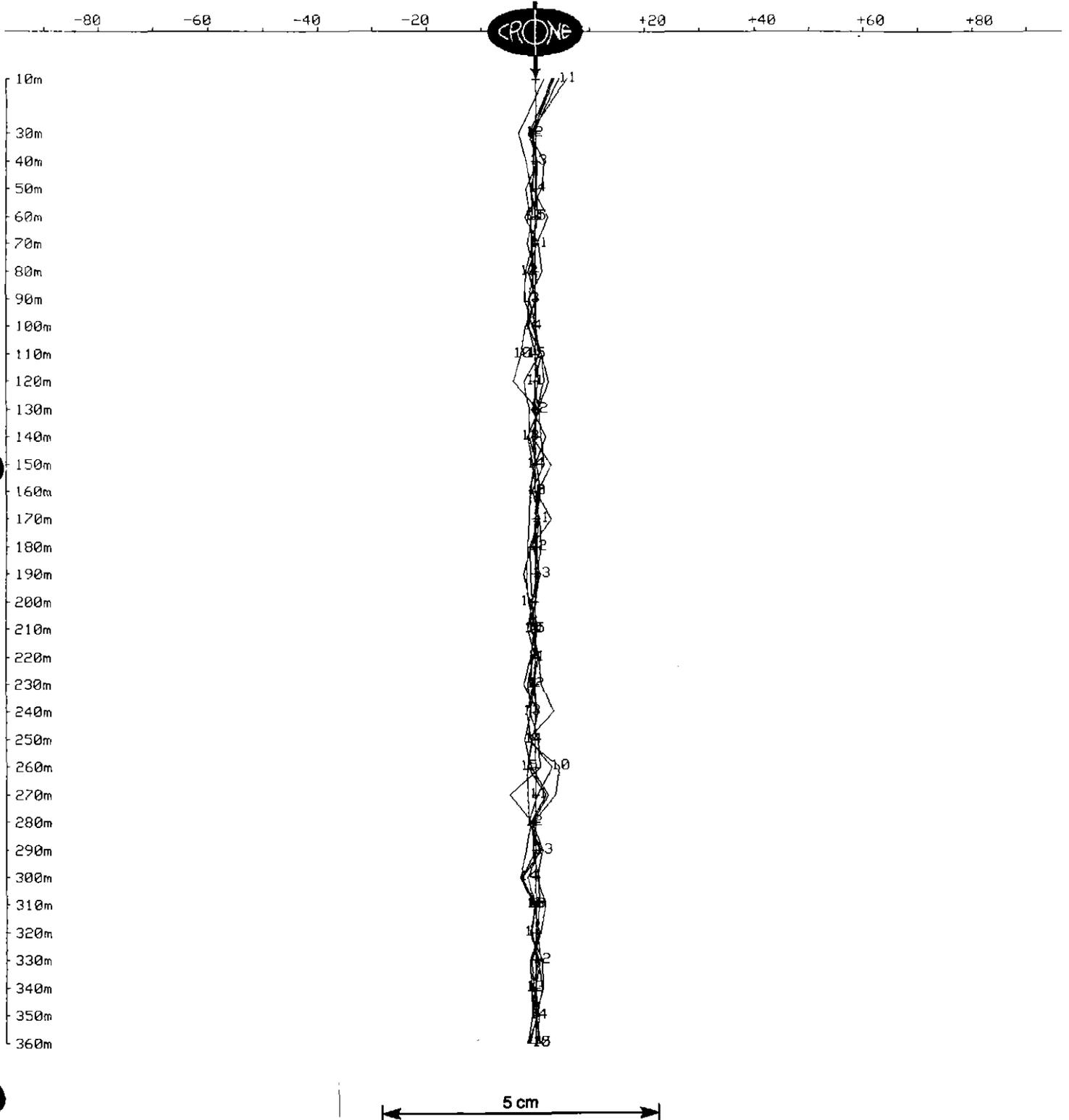
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 10 nT/:



323244

OUTER-RIM EXPLORATION SERVICES

Operating Crane PEM System

BOREHOLE PEM

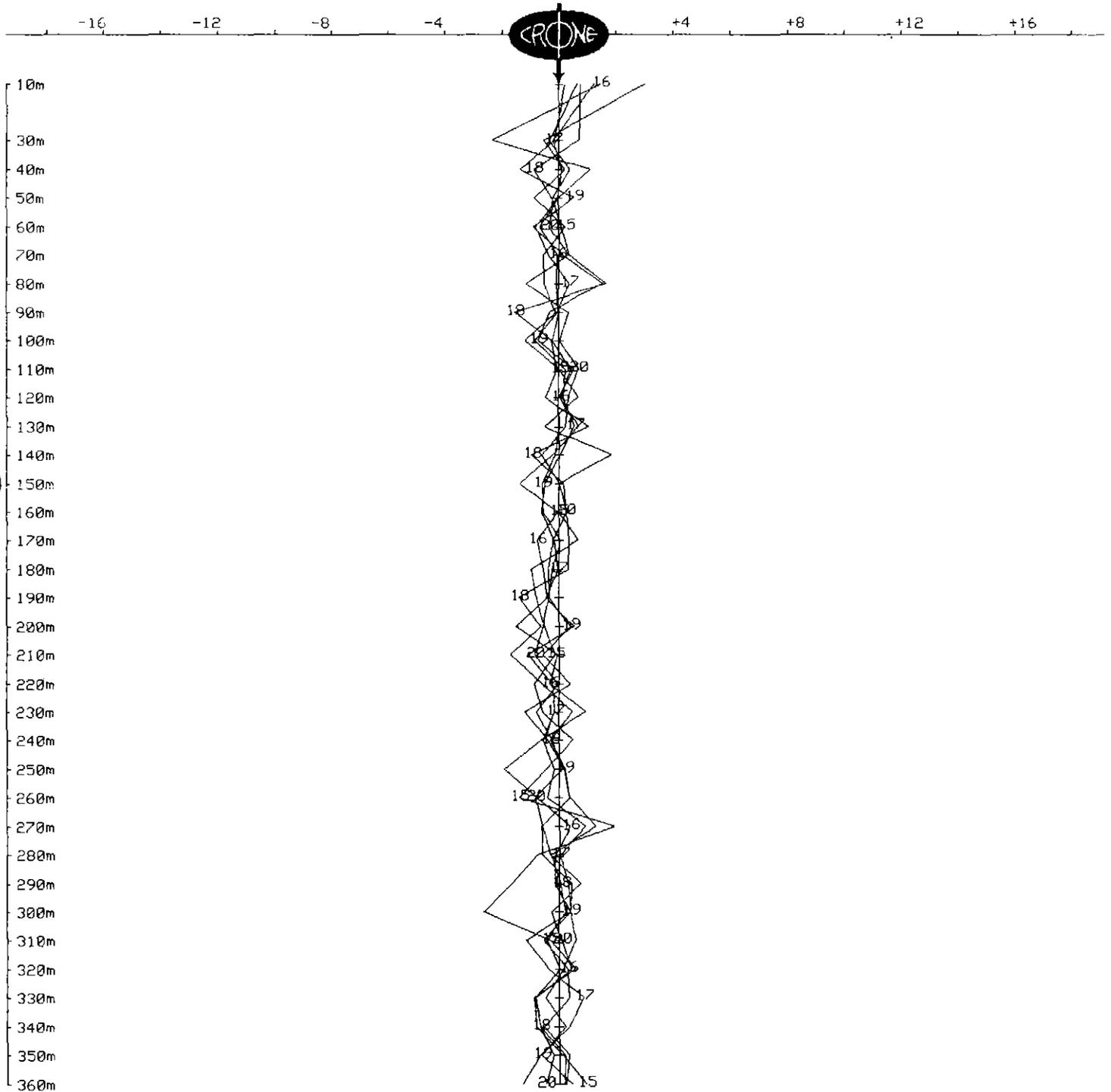
Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:2000

Unit Scale: 1cm = 2 nT/



323245

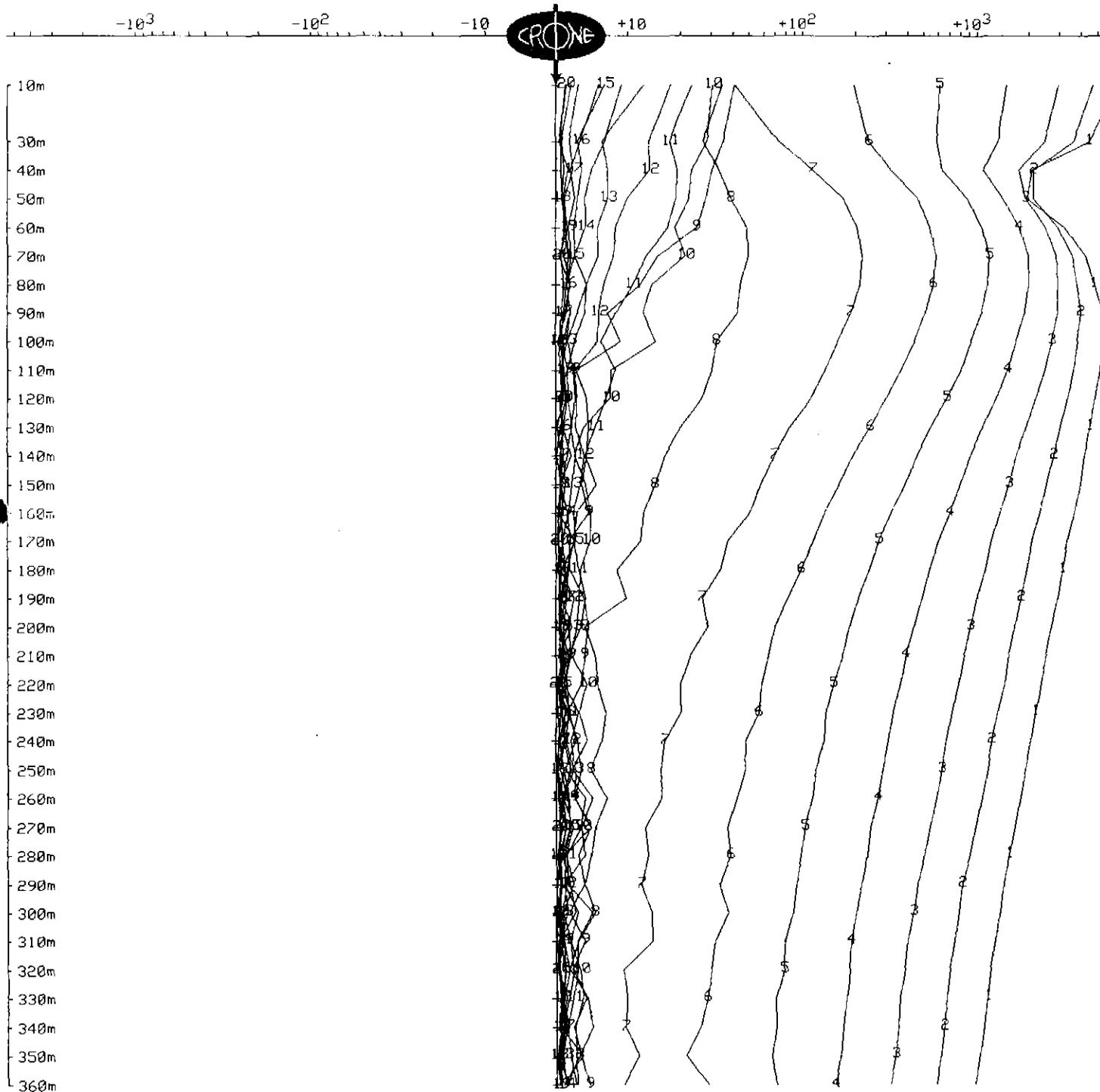
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : RGC Exploration
Grid : Basin Lake
Date : Oct 31, 1995

Hole : TYN-012
Tx Loop : Collar
File name : T12XYZ.PEM

TOTAL FIELD dBxyz/dt nanoTesla/sec - 20 channels

Scale: 1:2000

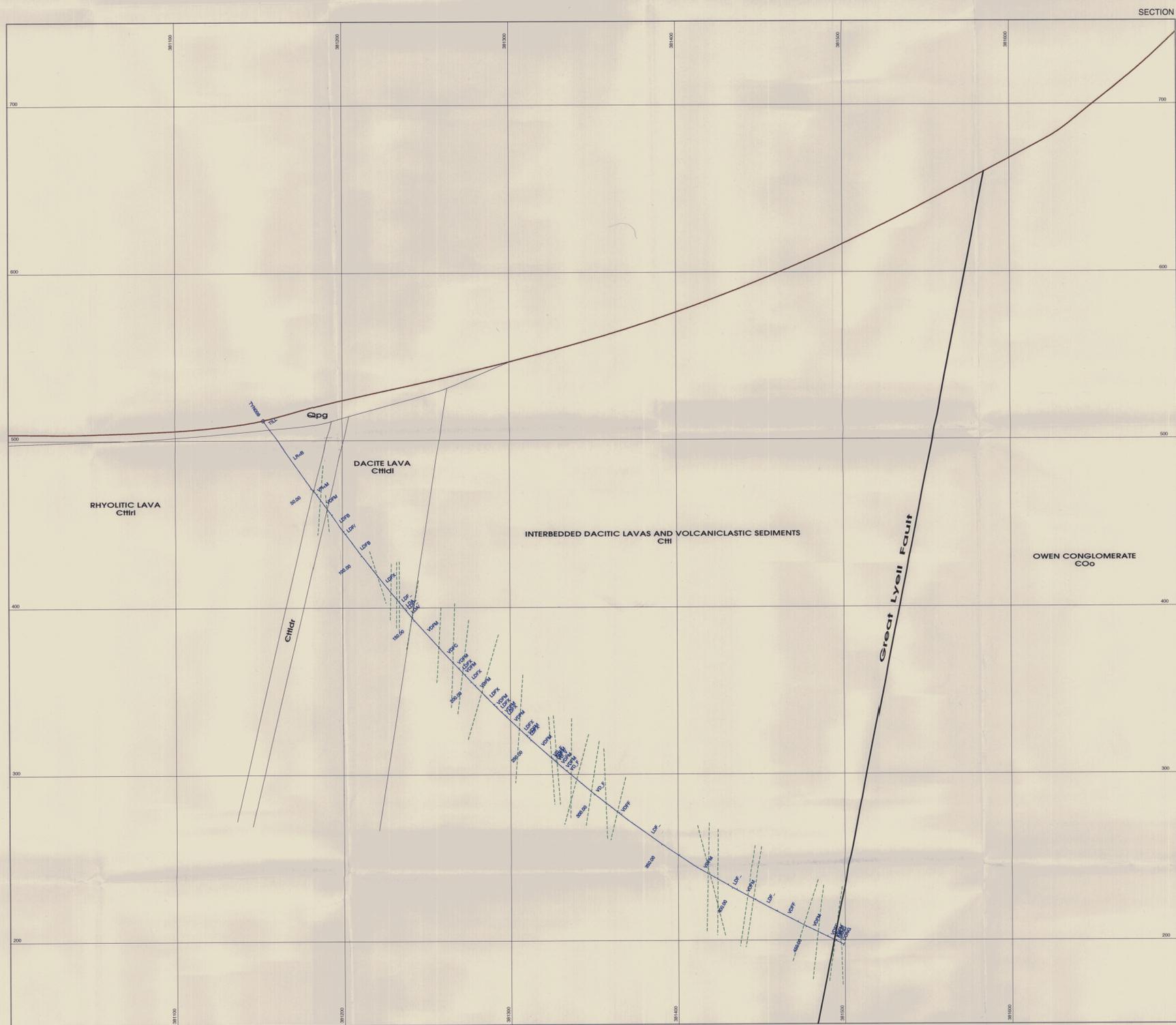
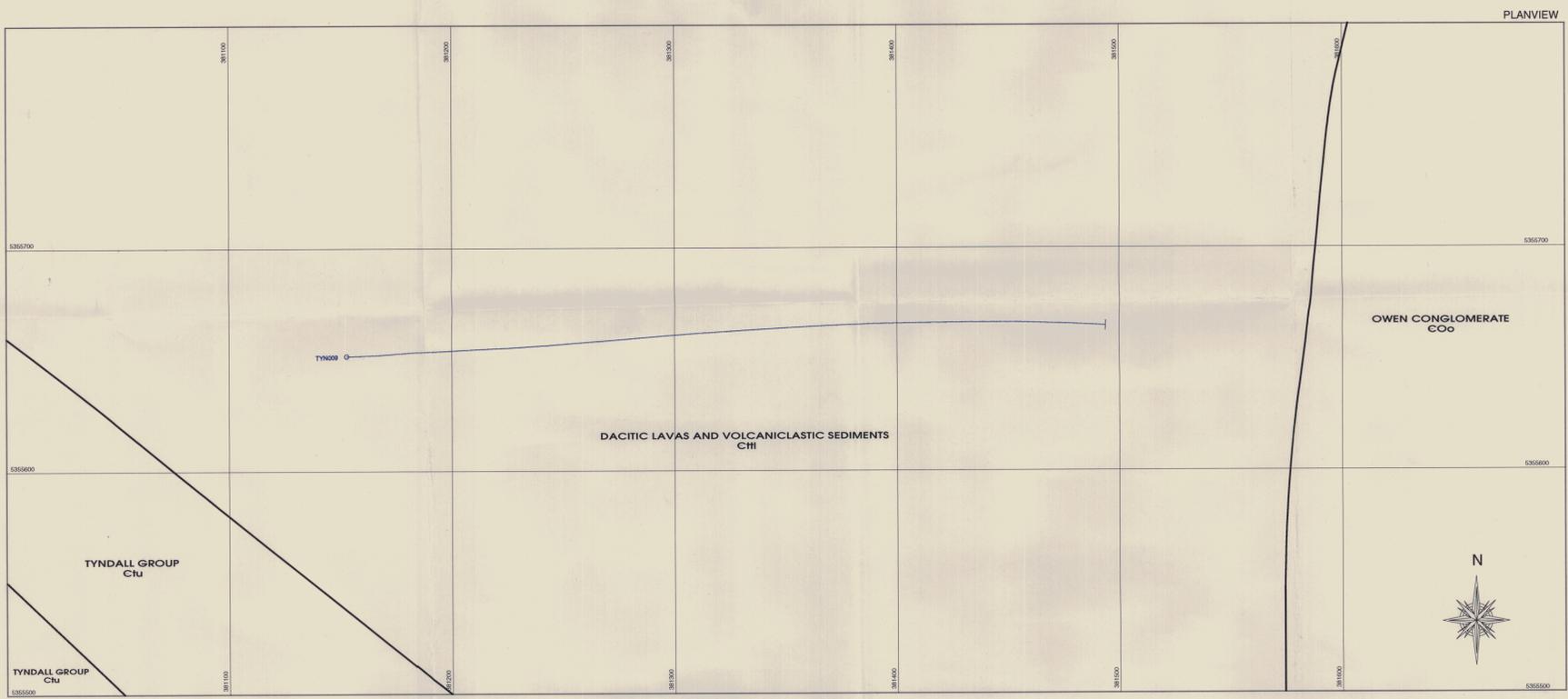


LIST OF PLANS AND FIGURES

		Drg. ID	Scale
* FIGURE 1	Locality Plan	5532/147	1:250 000
* FIGURE 2	TYN011 Assays		
* FIGURE 3	TYN012 Assays		
* FIGURE 4	Correlation between Andesite, Dacite and Suite II		
* FIGURE 5	Correlation between Dacite and Suite I - Tyndall Group		
PLAN 1	TYN009 Geology Plan and Section	5536/019	1:1 000
PLAN 2	TYN010 Geology Cross Section and Plan View	2313b024.dgn	1:1 000
PLAN 3	TYN011 Geology Cross Section and Plan View	2313b026.dgn	1:1 000
PLAN 4	TYN012 Geology Cross Section and Plan View	2313b025.dgn	1:1 000
PLAN 5	Basin Lake EL 14/93 Geological Interpretation Plan	2313b10.dgn	1:10 000
PLAN 6	Basin Lake EL 14/93 Total Magnetic Intensity Plan	2313b10.dgn	1:10 000
PLAN 7	Basin Lake EL 14/93 Geological Interpretation and Magnetic 2nd Horizontal Derivative Plan	2313b10.dgn	1:10 000
PLAN 8	Tyndall Group Stratigraphy. Basin Lake - Henty Area	2313/020	1:10 000 + 1:2 000
PLAN 9	Profiles of Self Potential	2313/014	1:2 500

* IN TEXT (VOL. 1)

PLAN 10	Contours of Self Potential	2313/015	1:2 500
PLAN 11	Profiles of Residual Self Potential	2313/016	1:2 500
PLAN 12	Contours of Residual Self Potential	2313/017	1:2 500
PLAN 13	Geophysical Interpretation	2313/018	1:2 500



GEOLOGY INTERPRETATION LEGEND

- FAULT
- GEOLOGICAL BOUNDARY
- - - GEOLOGICAL BOUNDARY, INFERRED
- - - STRUCTURAL DATA ON SECTION
- ∇ COMPOSITIONAL BANDING
- - - BEDDING

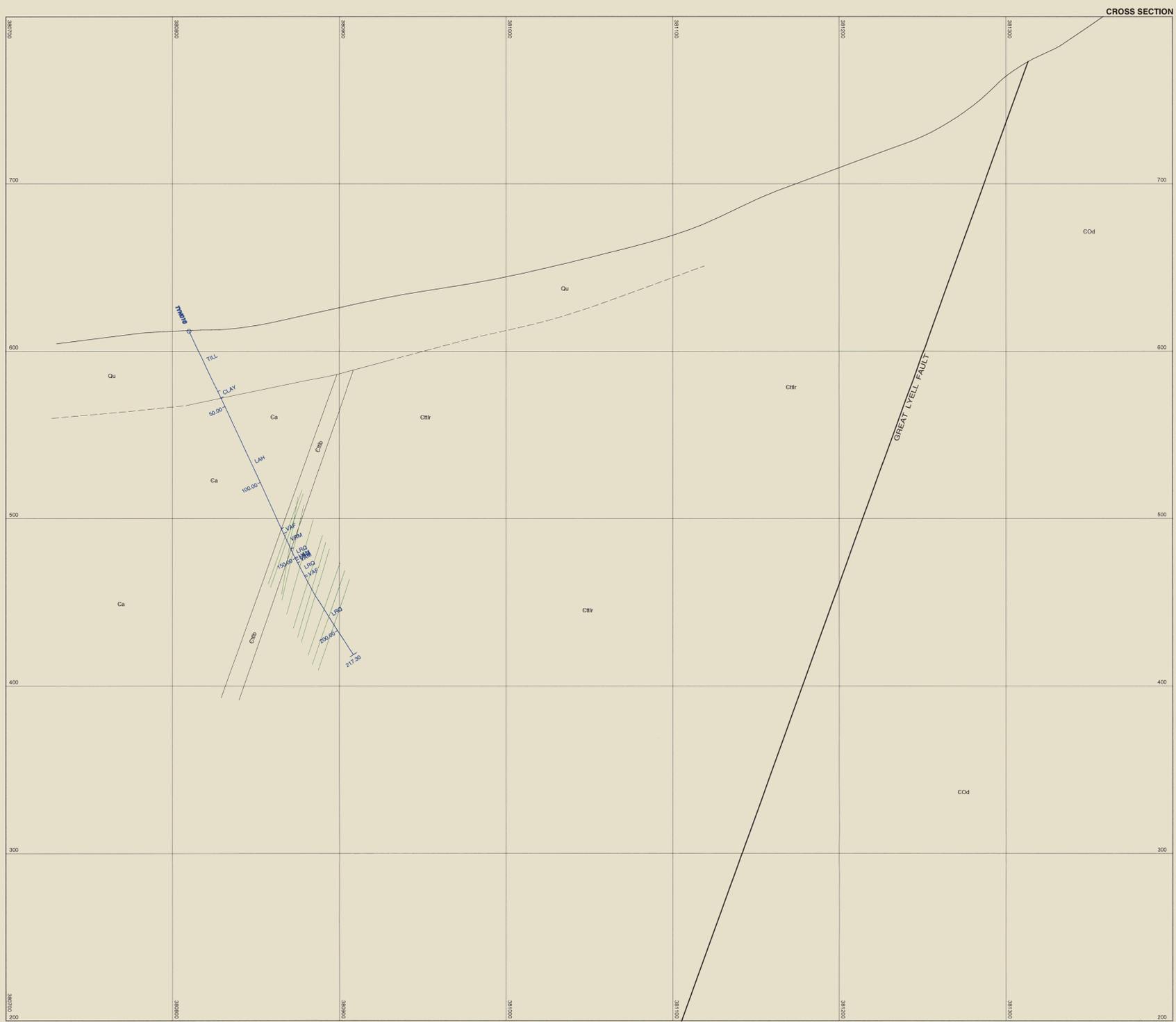
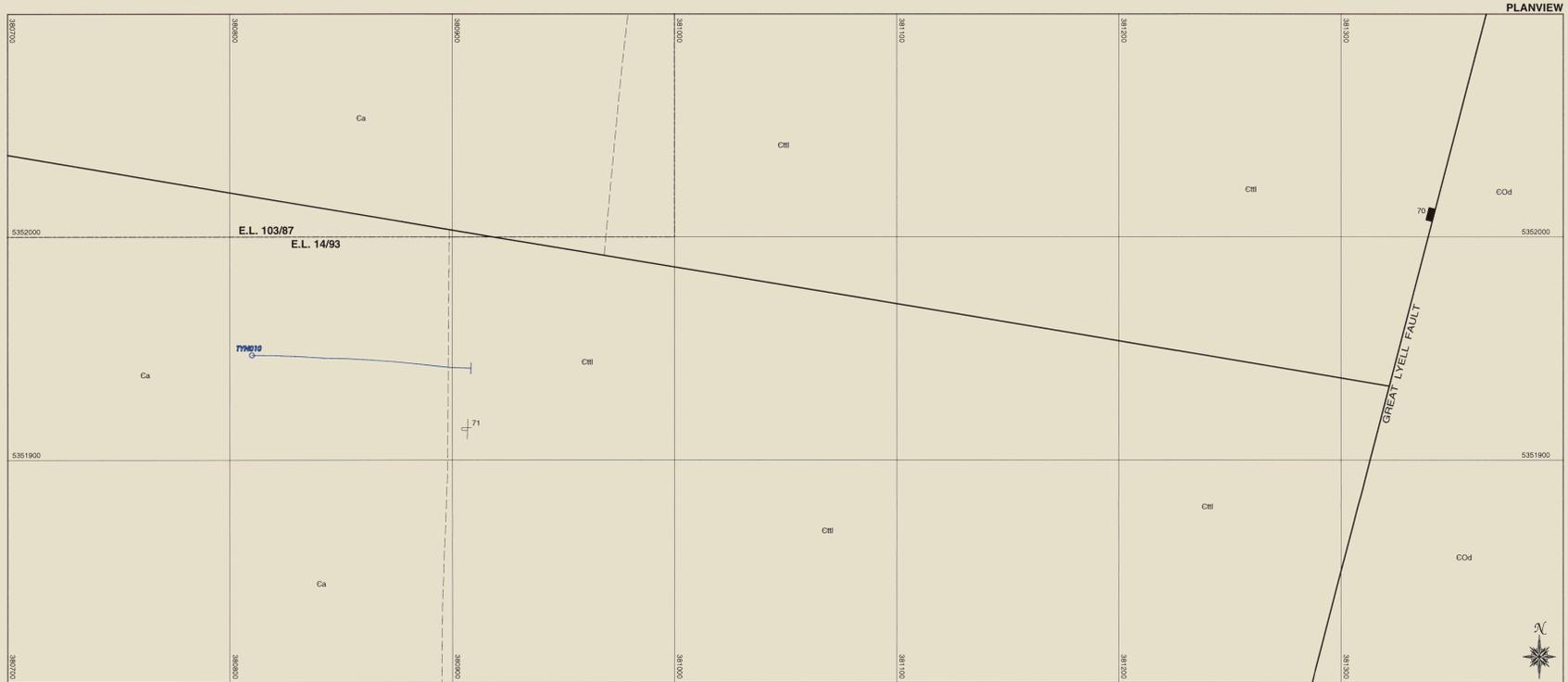
DOWNHOLE GEOLOGY LEGEND

TYPE	COMPOSITION	CRYSTAL TYPE	GRAIN SIZE
U - Volcanic (general)	R - Rhyolite	A - Aphyric	B - Breccia
V - Volcaniclastic	Y - Rhyodacite	F - Feldspar phytic	C - Coarse
E - Epiclastic	D - Dacite	< - Feldspar-quartz phytic	M - Medium (Sandy)
L - Lava	A - Andesite	> - Quartz-feldspar phytic	F - Fine (Silty)
I - Intrusive	B - Basaltic	Q - Quartz phytic	V - Very fine (Shaley)
P - Porphyry	F - Felsic	H - Hornblende phytic	A - Ashy
	M - Mafic	P - Pyroxene phytic	Z - Undifferentiated
	U - Ultramafic	B - Biotite phytic	X - Crystall rich
		V - Vitric/glassy	
		L - Lithic rich	

96-3816

ANNUAL REPORT 1994-95 TASMANIAN BASE METALS
PROJECT 83, 1400 BASIN LAKE - RGC EXPLORATION
VICARIT 14 - VOLUME 2 OF 2

GEOLOGIST M. VICARY		323249	
DRAWN M. WALTER		BASIN LAKE PROSPECT E.L. 14/93	
DATE MAR. 1995		DRILLHOLE TYN009 GEOLOGY PLAN & SECTION	
CHECKED M. VICARY		5 cm	
REF. 1:25000		SCALE 1:1000	
DRAWING ID: 963816		PLAN 1	
FILENAME: TYN009			



96-3816

ANNUAL REPORT 1994-95 TASMANIAN BASE METALS
PROJECT RL 1400 BASIN LAKE, REE EXPLORATION
VOLUME 11 - VOLUME 2 OF 2

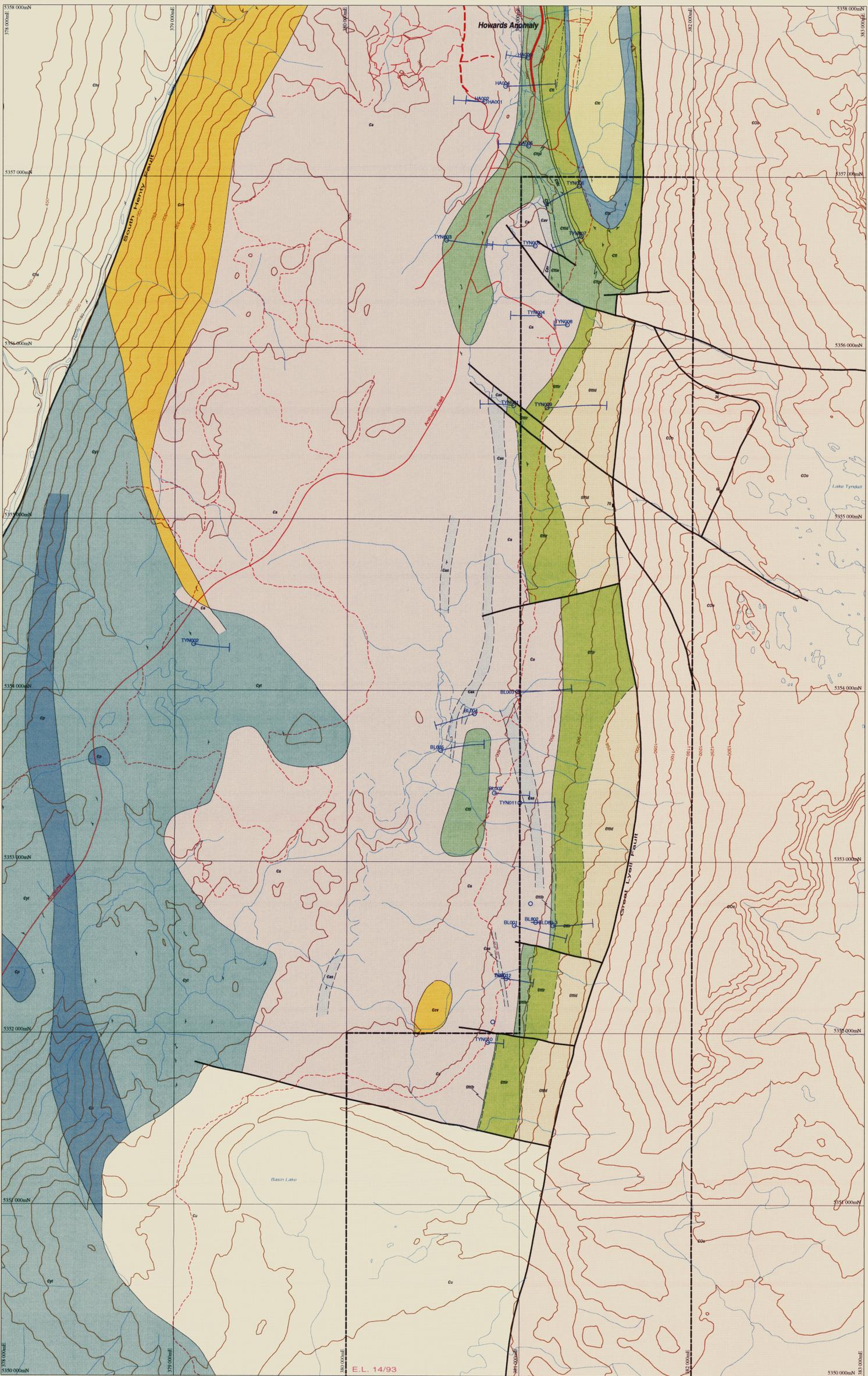
323250

5 cm

QUATERNARY		CAMBRIAN	
Qu	Alluvium, colluvium, talus and till	Ca	Andesitic to basaltic intrusion bodies with lavas and clastic units. Includes feldspar hornblende porphyrophytic and basaltic porphyrophytic types and small chlorite altered dykes. Includes Crown Hill andesite.
COD	Undifferentiated Ocean Conglomerate	Cav	Andesitic to basaltic clastic units
Fynite Group		Cas	Black pyritic siltstone
Cic	Mainly volcanoclastic conglomerate with minor mudstone and till	---	Fault
CIII	Mainly crystalline volcanic sandstone (quartz-feldspar phytic). Cornstock till and congluclite	---	Geological boundary
CIs	Blocky sandstone - siltstone units	---	Structural measurement
Ccarb	Exhalative carbonate horizon		
Ccl	Rhyolite lava (greenstone)		
Cclv	Dacite lava		
Cclsv	Dacitic volcanoclastic sediment		
Cclsr	Rhyolite lava		
Cclsvr	Rhyolite volcanoclastic sediment		
Cclsvr	Interbedded andesitic-rhyolite volcanoclastic sediments and minor lavas		
Ccarb	Exhalative carbonate horizon		



RGCE EXPLORATION			
Member of the Renison Goldfields Consolidated Group			
TAS BASE-METALS			
BASIN LAKE PROSPECT E.L. 14/93			
DRILLHOLE TYN010 GEOLOGY CROSS SECTION & PLANVIEW SECTION ALONG 5351 947mN			
Geology	M. Vicary	Date	Oct. 1995
Topography	M. Vicary	Scale	1:1500
Assemblage	M. Vicary	Revision Date	1.25.000 Ref. Map
Soils samples	M. Vicary	Revision	XX
Drilling			
Tenement			
Amg Grid			
Drawing Path	E:\ms-draft\basin\sect	Drawing Name	PLAN 2
			23138024.dgn

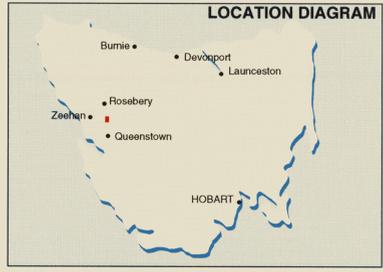
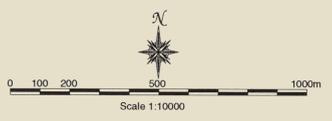


96-3816

ANNUAL REPORT 1994-95 TASMANIAN BASE METALS PROJECT E.L. 14/93 - VOLCANIC ZONE LOCATION VOLUME 1 - VOLUME 2 OF 2

GEOLOGICAL REFERENCE

QUATERNARY	Ca	Andesitic to basaltic intrusive bodies with lavas and clastic units. Includes feldspar-hornblende-gyroxene-phryic and feldspar-gyroxene-phryic types and small chlorite altered dykes. Includes Crown Hill andesite.
CAMBRIAN	Cav	Andesitic to basaltic clastic units
COo	Cas	Black pyritic siltstone
Undifferentiated Owen Conglomerate	Central Volcanic Complex	
Tyndall Group	Ccv	Mainly felsic pyroclastic rocks, dominantly feldspar phryic, including pumice bearing tuff and breccia, crystal vitro tuff, vitro tuff and minor shale and sandstone
Cic	Yolande River Sequence	
Mainly volcanoclastic conglomerate with minor mudstone and tuff	Cyt	Interbedded vitro tuff, crystal tuff, siltstone, slate, sandstone and agglomerate
Cti	Csp	Quartz-feldspar phryic intrusive
Mainly crystal-rich volcanic sandstone (quartz-feldspar phryic). Comstock tuff and corallites	Cch	Siltstone and sandstone
Ctlv	Henty Fault Sequence	
Bedded sandstone - siltstone units	Cu	Undifferentiated Cambrian Volcanics
Ctll		
Chert bearing massflow base to Comstock Tuff	.....	Geological contact
Ctlc		.....
Chertic quartz-feldspar phryic volcaniclastic sandstone	- - - - -	Fault
Exh		.....
Exhalative carbonate horizon	.....	Bedding, facing unknown
Ca		.....
Rhyolite lavagimbrite	.....	Bedding, facing up
Ctid		.....
Dacite lava	.....	Overtumed bedding
Ctidv		.....
Dacite volcanoclastic sediment	.....	Vertical, Horizontal bedding
Ctlid		.....
Feldspar-quartz phryic crystal-rich volcaniclastic sandstone & conglomerate	.....	Cleavage, Vertical cleavage
Ctliv		.....
Rhyolite lava	.....	Compositional banding, foliation, vertical
Ctlivv		
Rhyolite dacite volcanoclastic sediment		
Ctlvc		
Exhalative carbonate horizon		



TOPOGRAPHY

.....	Road	.....	Lake
.....	Track	.....	Well &/or Bl.
.....	Hayway Line	.....	Grid line
.....	Building	.....	Tenement Boundary
.....	Fence	Index contour with value
.....	Watercourse	Minor contour with value

32325

RGC EXPLORATION

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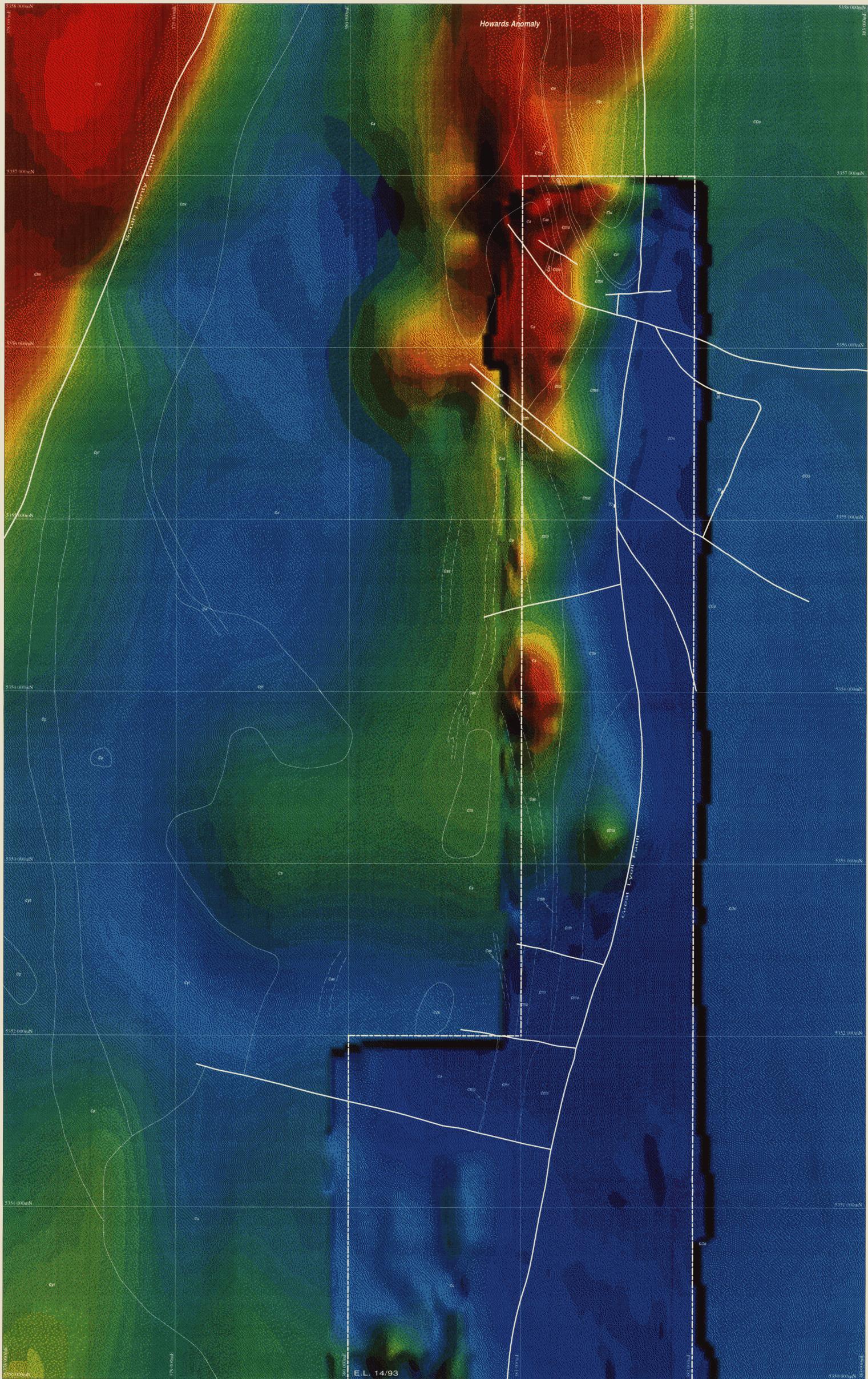
TAS BASE-METALS PROJECT

BASIN LAKE PROSPECT E.L. 14/93

GEOLOGICAL INTERPRETATION PLAN

Geology	: geol10	Geologist	: M.Vicary	Date	: Sept. 1995	Scale	: 1 : 10,000
Topography	: tynd-dar	Drawn	: M.Walter	Revision Date	: Dec. 1995	1:25,000 Ref. Map	: Tyndall
Aeromag	: 2302a2-7	Drilling	: basin-dd	Tenament	: tas55	Drawing Name	: 2313b10.dgn
Soils samples		Amg Grid	: 2302gr10				: PLAN 5

5 cm



E.L. 14/93

GEOLOGICAL REFERENCE

QUATERNARY

Qu Alluvium, colluvium, talus and till

CAMBRIAN

COo Undifferentiated Owen Conglomerate

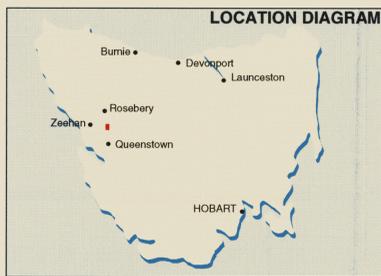
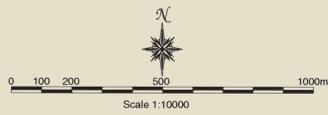
Tyndal Group

Ctc Mainly volcaniclastic conglomerate with minor mudstone and tuff
 Ctt Mainly crystal-rich volcanic sandstone (quartz-feldspar phytic). Comstock tuff and corallites.
 Cts Bedded sandstone - siltstone units
 Cttpl Chert bearing massflow base to Comstock Tuff

Cttlc Chloritic quartz-feldspar phytic volcaniclastic sandstone
 Ccarb Exhalative carbonate horizon
 Cttld Rhyolite lava/ignimbrite
 Cttldv Dacitic volcanic sediment
 Cttld Feldspar-quartz phytic crystal-rich volcaniclastic sandstone & conglomerate
 Cttlv Rhyolite lava
 Cttlv Rhyolite dacitic volcaniclastic sediment
 Cttlb Exhalative carbonate horizon

Ca Andesitic to basaltic intrusive bodies with lavas and clastic units. Includes feldspar-hornblende-pyroxene-phyric and feldspar-pyroxene-phyric types and small chlorite altered dykes. Includes Crown Hill andesite.
 Cav Andesitic to basaltic clastic units
 Cas Black pyritic siltstone
 Ccy Mainly felsic pyroclastic rocks, dominantly feldspar phytic, including pumice bearing tuff and breccia, crystal vitric tuff, vitric tuff and minor shale and sandstone
 Cyt Interbedded vitric tuff, crystal tuff, siltstone, slate, sandstone and agglomerate
 Cp Quartz-feldspar phytic intrusive
 Cch Siltstone and sandstone
 Cu Undifferentiated Cambrian Volcanics

..... Geological contact
 --- Fault
 Bedding, facing unknown
 Bedding, facing up
 Overturned bedding
 + Vertical, Horizontal bedding
 Cleavage, Vertical cleavage
 Compositional banding, foliation, vertical



96-3816

ANNUAL REPORT 1994-95 TASMANIAN BASE METALS PROJECT EL 14/93 BASIN LAKE - RGC EXPLORATION VICARY M - VOLUME 2 OF 2

323254

RGC EXPLORATION

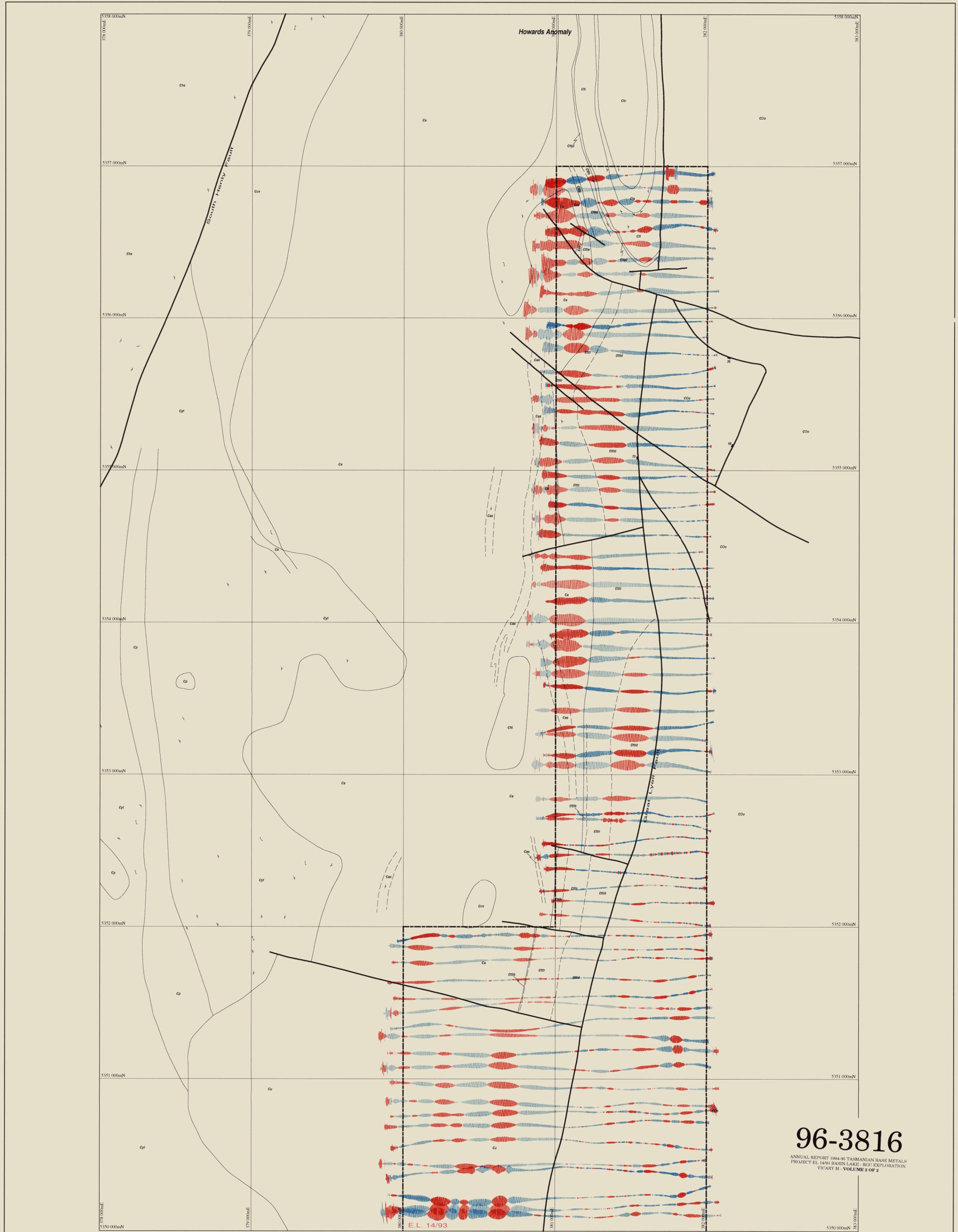
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TAS BASE-METALS PROJECT

**BASIN LAKE PROSPECT E.L. 14/93
 GEOLOGICAL INTERPRETATION & TOTAL MAGNETIC INTENSITY PLAN**

Geology	: geol10	Geologist	: M.Vicary	Date	: Sept. 1995	Scale	: 1 : 10,000
Topography	: tynd-dar	Drawn	: M.Walter	Revision Date	: Dec. 1995	1:25,000 Ref. Map	: Tyndall
Aeromag	: 2302a2-7	Drilling	: basin-dd	Drawing Path	: D:\ms-draft\basin\base	Drawing Name	: 2313b10.dgn
Soils samples	: -	Tenement	: tas55	Amg Grid	: 2302gr10		: PLAN 6

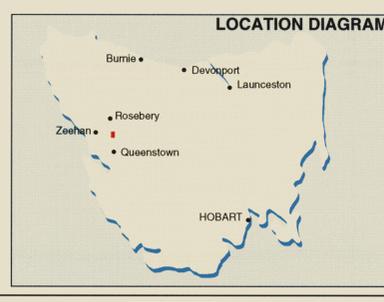
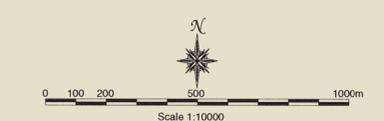
5 cm



96-3816
 ANNUAL REPORT 1994-95 TASMANIAN BASE METALS
 PROJECT EL 14/93 BASIN LAKE - RGC EXPLORATION
 VICARY M - VOLUME 2 OF 2

GEOLOGICAL REFERENCE

QUATERNARY		Ca	Andesitic to basaltic intrusive bodies with lavas and clastic units. Includes feldspar-hornblende-pyroxene-phryic and feldspar-pyroxene phryic types and small chlorite altered dikes. Includes Crown Hill andesite.
CAMBRIAN		Cav	Andesitic to basaltic clastic units
COo		Cas	Black pyritic siltstone
Undifferentiated Owen Conglomerate		Central Volcanic Complex	
Cyc		Cavc	Mainly felsic pyroclastic rocks, dominantly feldspar phryic, including pumice bearing tuff and breccia, crystal vitric tuff, vitric tuff and minor shale and sandstone
Mainly volcaniclastic conglomerate with minor mudstone and tuff		Yolande River Sequence	
Cti		Cyt	Interbedded vitric tuff, crystal tuff, siltstone, slate, sandstone and agglomerate
Mainly crystal-rich volcanic sandstone (quartz-feldspar phryic), Comstock tuff and correlatives		Cp	Quartz-feldspar phryic intrusive
Cts		Chts	Siltstone and sandstone
Bedded sandstone - siltstone units		Cu	Undifferentiated Cambrian Volcanics
Cttpl		Henly Fault Sequence	
Chert bearing massflow base to Comstock Tuff		Cttlc	Chlorite quartz-feldspar phryic volcaniclastic sandstone
Cttlv		Ccarb	Exhalative carbonate horizon
Cttlv		Cti	Rhyolite lavas/gneissite
Cttlv		Cttld	Dacite lava
Cttlv		Cttldv	Dacitic volcaniclastic sediment
Cttlv		Cttlv	Feldspar-quartz phryic crystal-rich volcaniclastic sandstone & conglomerate
Cttlv		Cttlv	Rhyolite lava
Cttlv		Cttlv	Rhyolite dacitic volcaniclastic sediment
Cttlv		Ccarb	Exhalative carbonate horizon



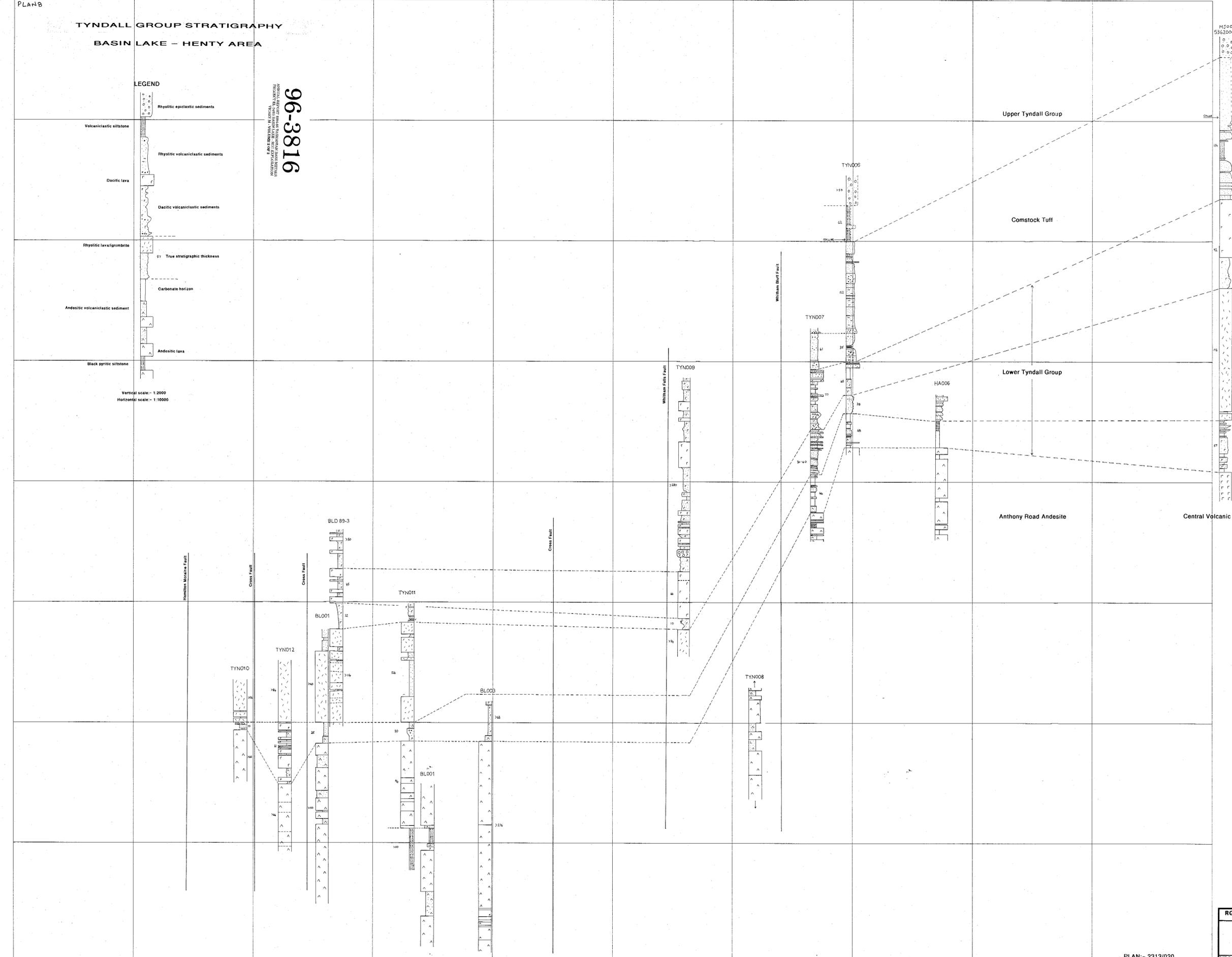
RGC EXPLORATION
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TAS BASE-METALS PROJECT

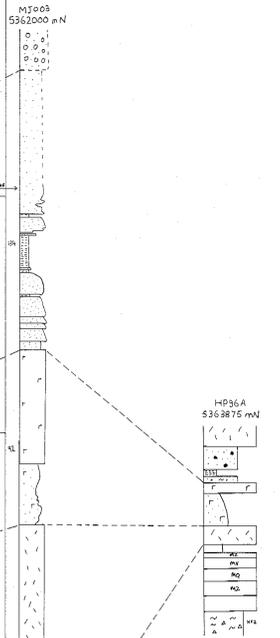
BASIN LAKE PROSPECT E.L. 14/93
GEOLOGICAL INTERPRETATION & MAGNETIC 2nd DERIVATIVE PLAN

Geology	: geol10	Geologist	: M.Vicary	Date	: Sept. 1995	Scale	: 1:10,000
Topography	: basin-2n	Drawn	: M.Walter	Revision Date	: Dec. 1995	1:25,000 Ref. Map	
Aeromag	: tas55	Terramant	: tas55			Tyndall	
Soils samples	: 2302gr10	Drilling	: D:\ms-draft\basinbase	Drawing Name	: 2313b10.dgn	PLAN 7	

5350000 mN 5351000 mN 5352000 mN 5353000 mN 5354000 mN 5355000 mN 5356000 mN 5357000 mN 5358000 mN 5359000 mN 5360000 mN



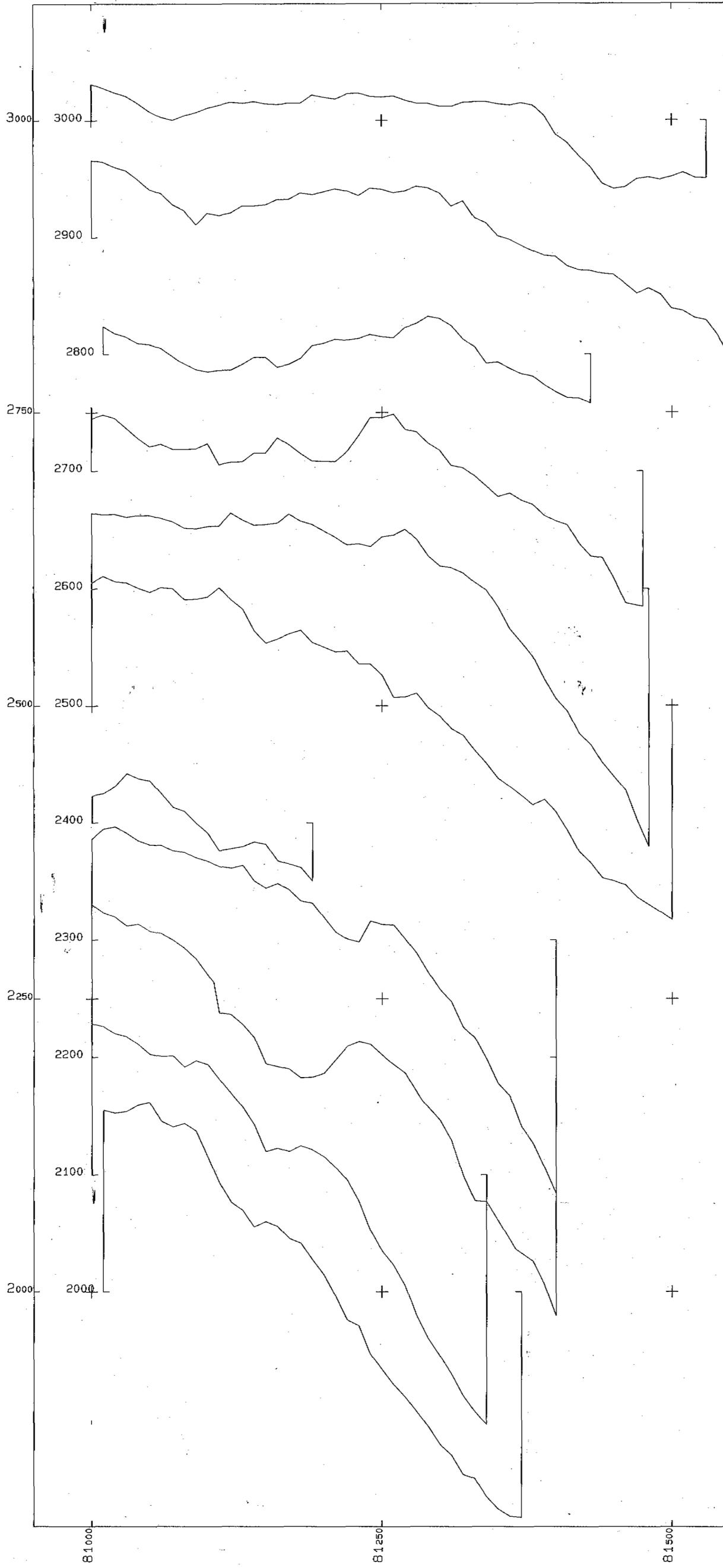
323236



5 m

RGC EXPLORATION PTY. LIMITED	
DATE	12/15
DRAWN	MJV
CHECKED	
SCALE	

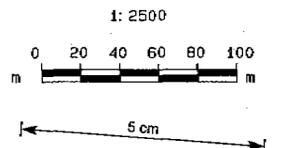
PLAN:- 2313/020



ANNUAL REPORT 1994-95 TASMANIAN BASE METALS
 PROJECT EL 14/98 BASIN LAKE - RGC EXPLORATION
 VICARY N. VOLUME 2 OF 2

96-3816

323257
 SCALE

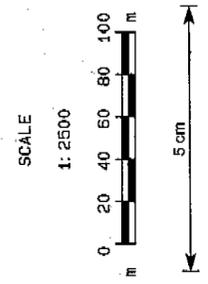


RGC EXPLORATION PTY LIMITED

Basin Lake, Tyndall Range Tasmania
 Profiles of
SELF POTENTIAL
 1cm = 0.05 volts

2313/014 PLAN 9
 Compiled by: Date: 20 Feb 1995
 Drawn by: Drawing No.: 1

323258



RGC EXPLORATION PTY LIMITED

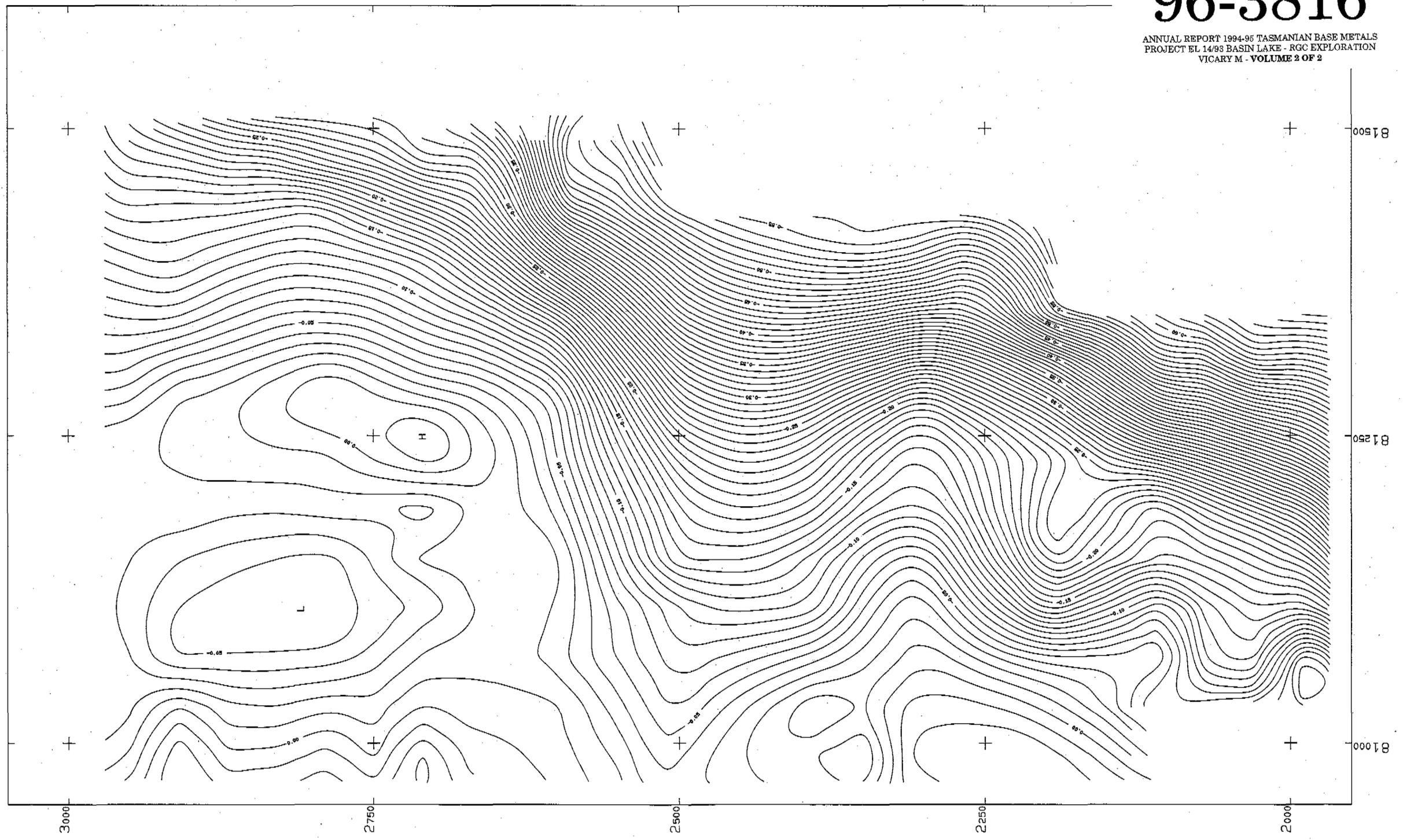
Basin Lake, Tyndall Range Tasmania
Contours of
SELF POTENTIAL

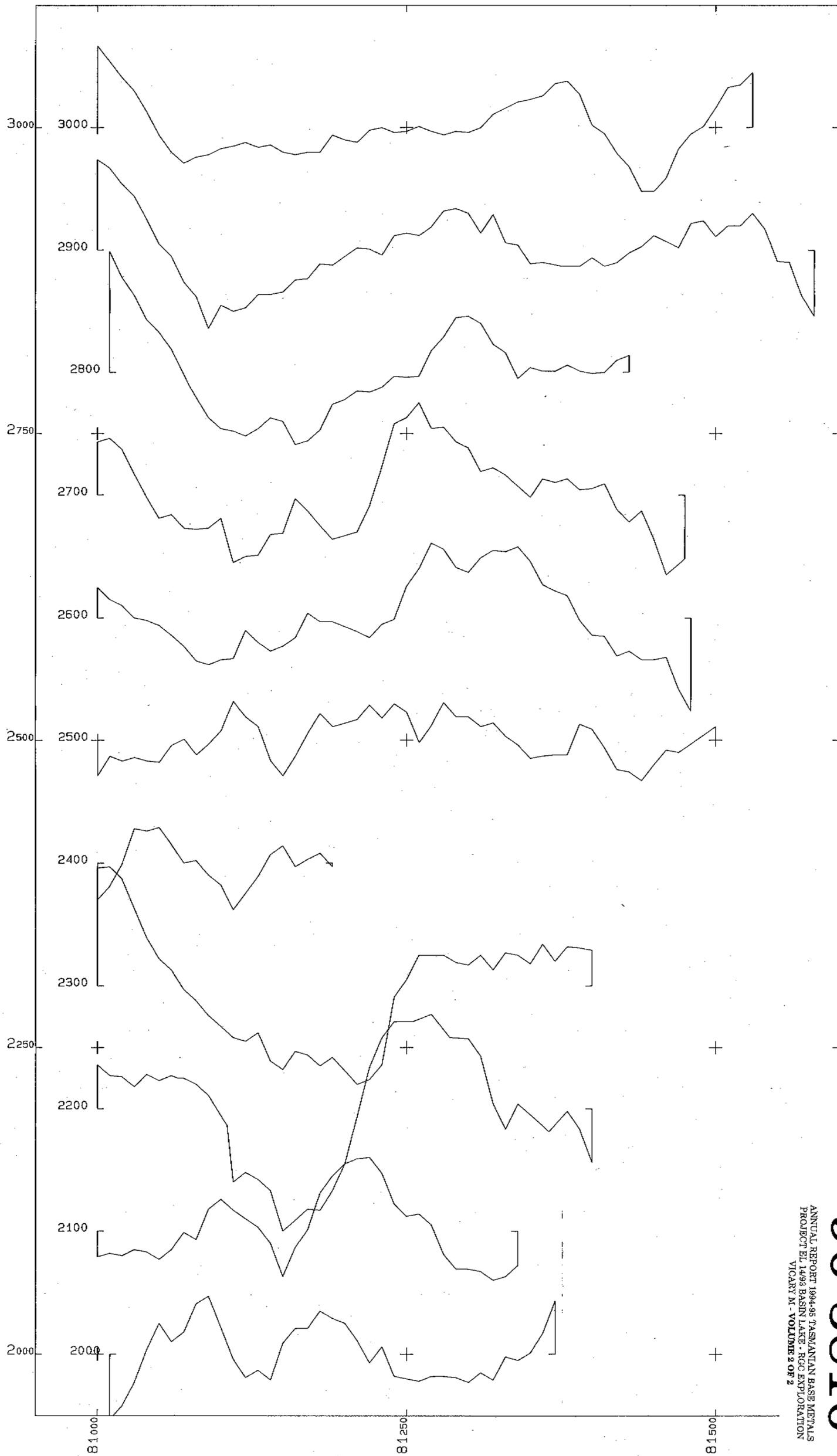
Contour Interval 0.01 volts
PLAN 10

2313/015
Compiled by: Date: 20 Feb 1995
Drawn by: Drawing No.: 2

96-3816

ANNUAL REPORT 1994-95 TASMANIAN BASE METALS
PROJECT EL 14/98 BASIN LAKE - RGC EXPLORATION
VICARY M. - VOLUME 2 OF 2





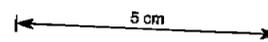
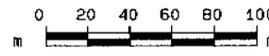
ANNUAL REPORT 1994-95 TASMANIAN BASE METALS
 PROJECT EL 1493 BASIN LAKE - RGC EXPLORATION
 VICARY M. - VOLUME 3 OF 2

96-3816

323259

SCALE

1: 2500



RGC EXPLORATION PTY LIMITED

Basin Lake, Tyndall Range Tasmania

Profiles of

SELF POTENTIAL

1cm = 25 millivolts

Polynomial Regional Removed

2313/016

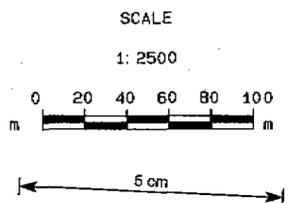
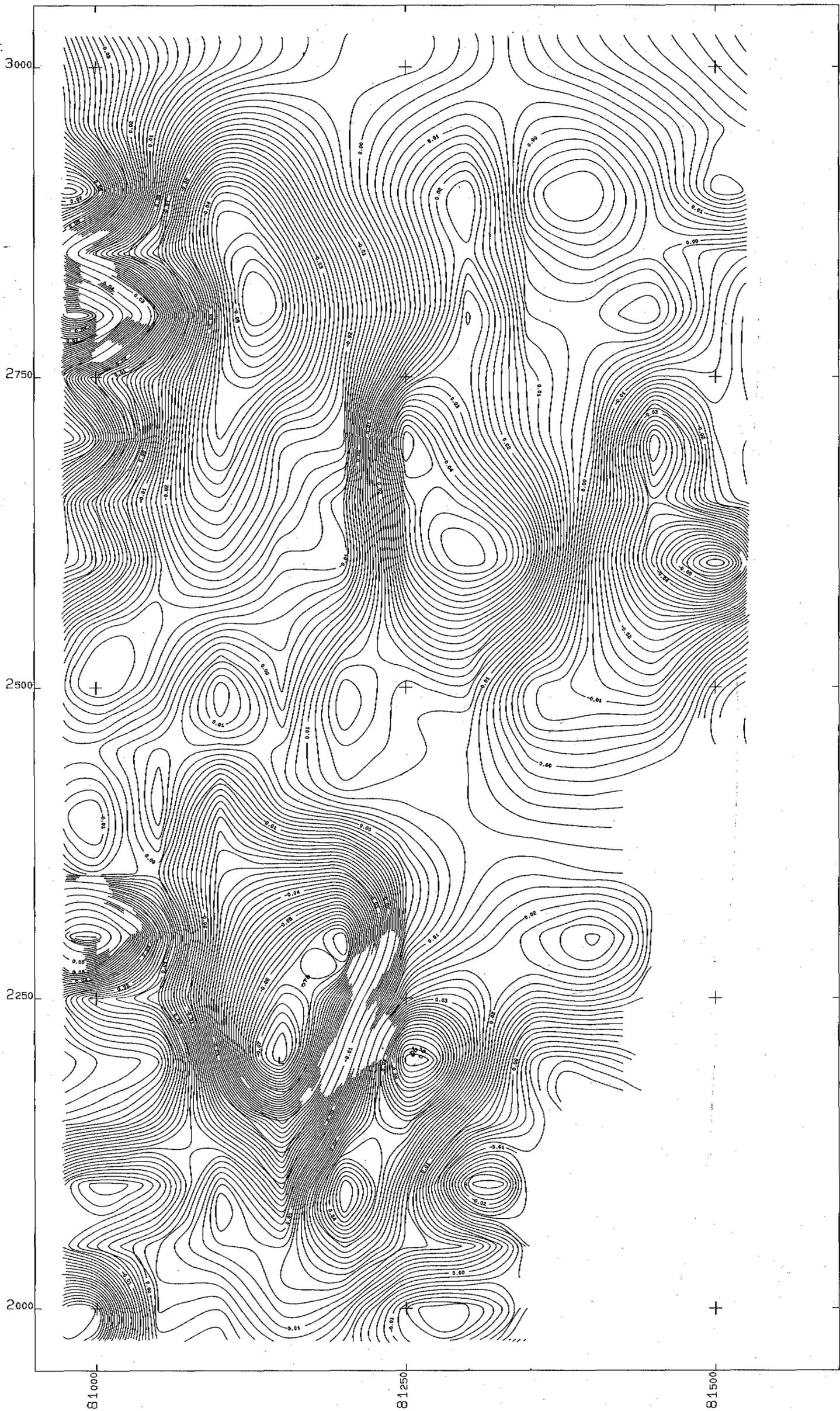
PLAN II

Compiled by:

Date: 21 Feb 1995

Drawn by:

Drawing No.: 3



RGC EXPLORATION PTY LIMITED

Basin Lake, Tyndall Range Tasmania
Contours of
SELF POTENTIAL

Contour Interval 2 millivolts

Polynomial Gradient Removed

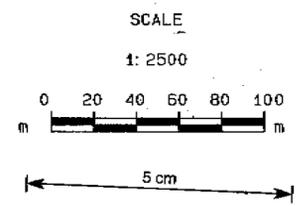
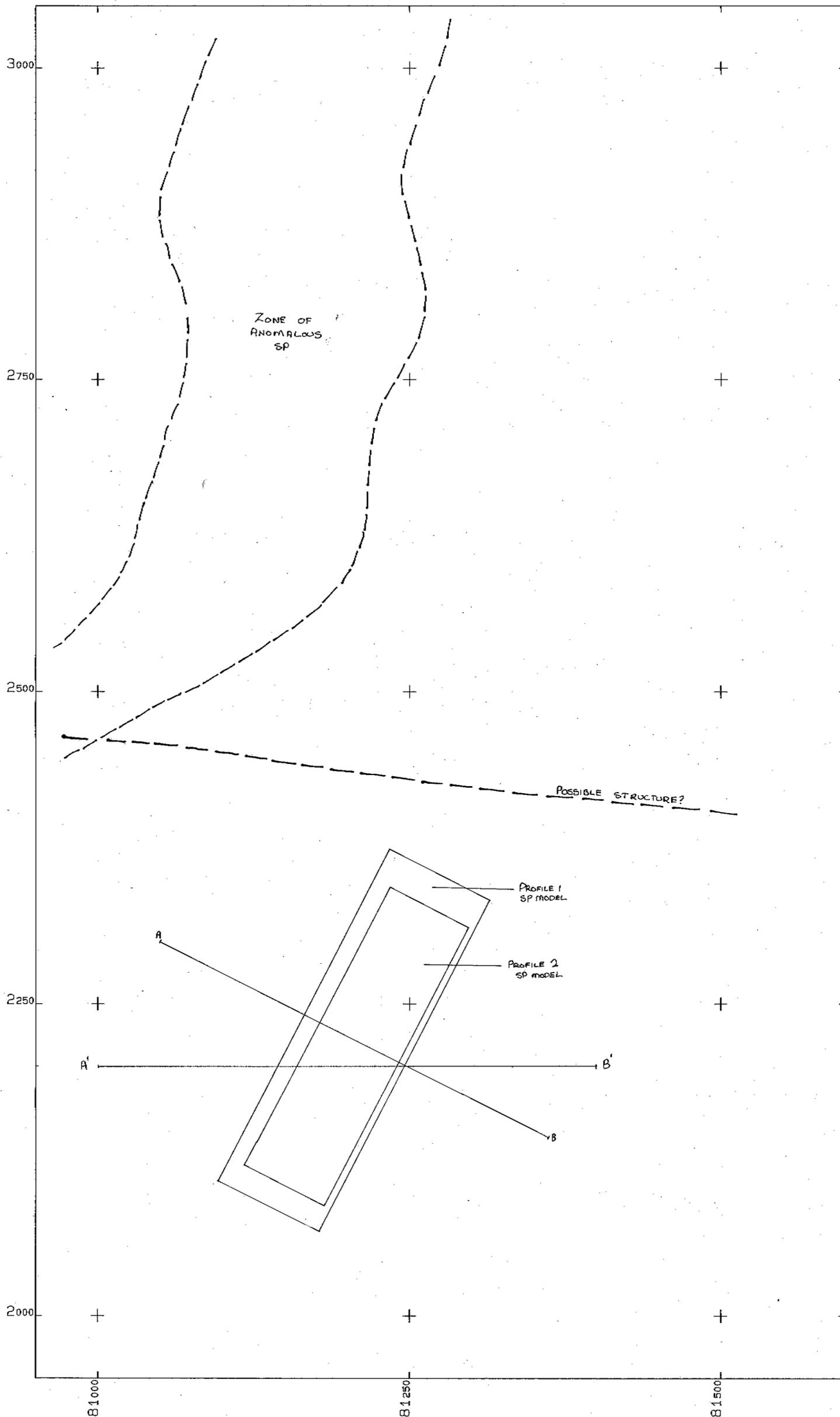
23131017 PLAN 12

Compiled by: Date: 20 Feb 1995

Drawn by: Drawing No.: 4

323260

323261



RGC EXPLORATION PTY LIMITED

Basin Lake, Tyndall Range Tasmania

GEOPHYSICAL INTERPRETATION

2313/010	PLAN 13
Compiled by:	Date: 28 Feb 1995
Drawn by:	Drawing No.: 5