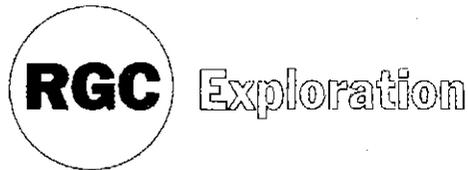


97-4016

298001

ACN 001 426 946



ANNUAL REPORT

TASMANIAN BASE METALS PROJECT

EL 2/94

LYNCHFORD

MICROFILMED
FICHE No. 014499-01

Vol 1 of 1

SEARCHED	INDEXED
SERIALIZED	FILED
EL 2/94	
12 JUN 1997	
See folio 67	

HELD BY: RGC EXPLORATION

MANAGER & OPERATOR: RGC EXPLORATION

AUTHORS: KIM DENWER / DAVID GREGORY.
30/05/97

PROSPECTS: SPECIMEN CREEK, KING RIVER GOLD MINE

MAP SHEETS: 1:25,000: OWEN, STRAHAN

1:100,000: FRANKLIN

GEOGRAPHIC COORDS Min East: 375000 m E
Min North: 5328000 m N

Max East: 383000 m E
Max North: 5338000 m N

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

KEY WORDS: Queen River, Miners Ridge, Yolande River Sequence,

Distribution:

- o RGC Exploration Information Centre Reference:
- o RGC Exploration - Zeehan
- o Department of Industry, Safety and Mines

97-4016

ANNUAL REPORT - LYNCHFORD
EL 2/94 - RGC EXPLORATION
K DENWER, D GREGORY

OPEN FILE

SUMMARY

EL 2/94 - Queen River is located 5 km south of Queenstown in western Tasmania and was acquired for its potential to host Prince Lyell style Cu - Au, Rosebery style Zn - Pb - Au - Ag mineralisation and Henty style Au mineralisation. In July 1995 EL 17/95 was granted and amalgamated into EL 2/94.

The base of the Tyndall group has been mapped in detail and jasperoid and hematite breccia occurs at this horizon. This unit occurs sporadically over a 1km+ strike length from Specimen Creek and extending to the north. This unit is interpreted to be a distal exhalite associated with a VMS system and warrant follow-up. The majority of the strike length of this unit occurs within mining lease 27M/82 held by Paraclete Resources. Attempts have been made to negotiate a joint venture / option agreement with Paraclete Resources on ML's 27M/82 and 9M/95. Discussions are continuing.

A significant magnetic anomaly centred at approximately 53 35000 m N 3 80 000 m E has been tested by grid based mapping, soil sampling, a ground magnetic survey and a 367m diamond drill hole.

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1. INTRODUCTION and LAND TENURE

E.L. 2/94 - Queen River is held by Renison Ltd and explored by RGC Exploration (RGCE), both wholly owned subsidiaries of RGC Limited. The licence was granted on June 24, 1994 as the result of a successful tender application for ETA's 322 and 346. The tenement is situated about 5 km south of Queenstown in western Tasmania, and in 1994 had an area of 21 km².

EL 17/95 is also held by Renison Limited and explored by RGC Exploration (RGCE), both wholly owned subsidiaries of RGC Limited. The licence was granted on July 10th, 1995 as the result of a successful tender application for ETA 378. The tenement is situated about 5 km south of Queenstown in western Tasmania, and in 1995 had an area of 9 km².

On granting of EL 17/95 the licence was amalgamated into EL 2/94 as the area is a contiguous block. EL 2/94 now has an area of 30 km² (Figure 1). Two mining lease 14M/96 and 25M/95 are excised from the exploration licence.

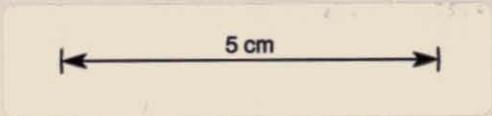
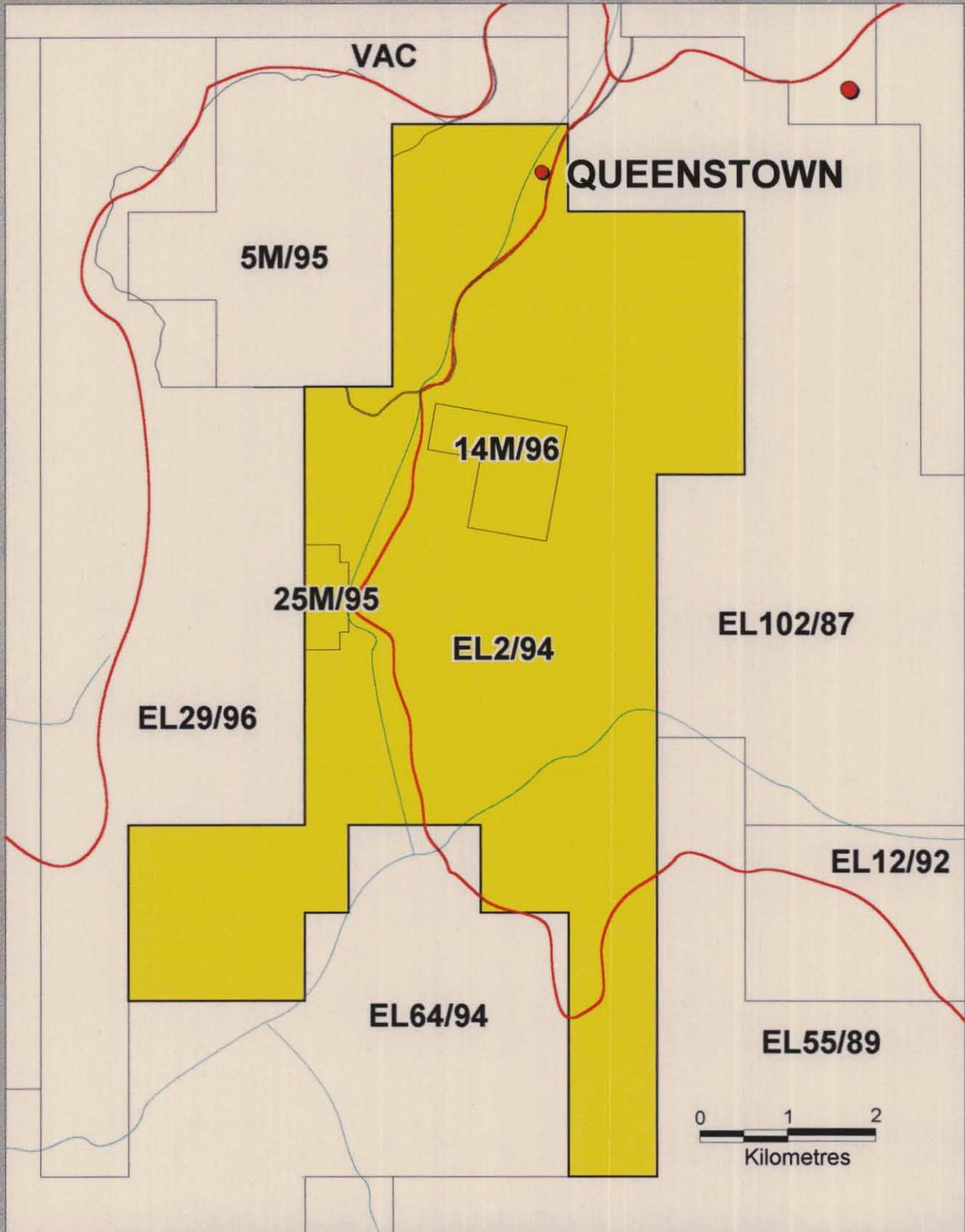
The area comprises: Crown Land, State Forest (Multiple Use Forest Land and Deferred Forest Land), Private Property and Land Vested in the HEC. The area contains parts of the South West Tasmania; Australian Heritage Commission Act; Registered Entry.



Exploration

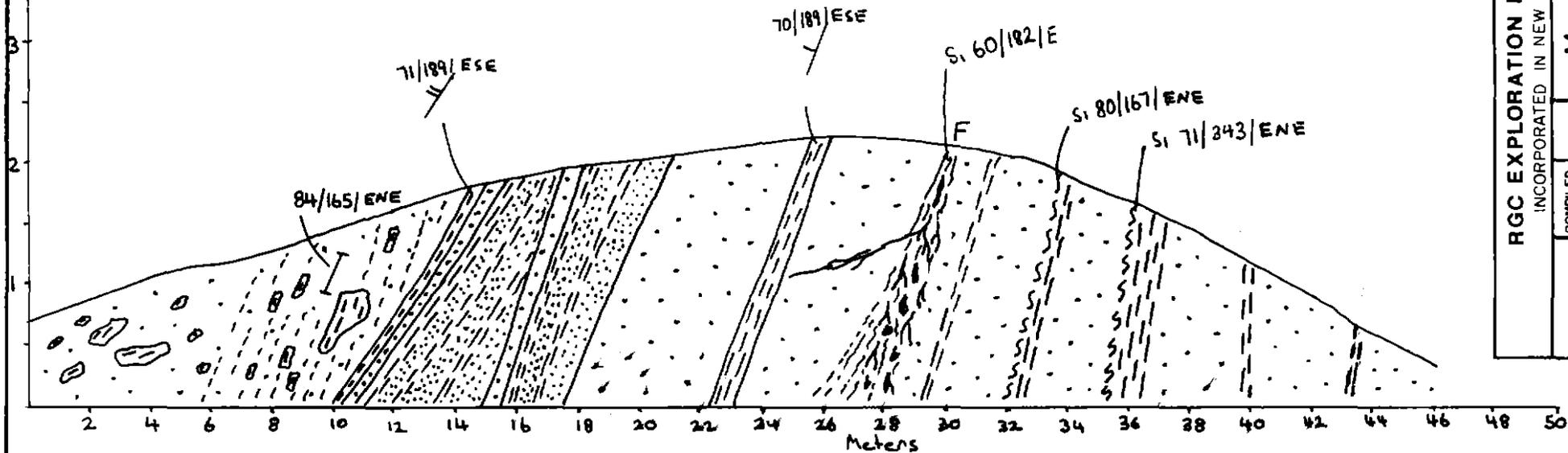
EL 2/94

Tenement Location Plan



298008

TN
 ← 031° →
 Looking ESE



 Volcaniclastic Mass Flow - poorly sorted with angular black shale clasts (1-80cm) and VOFM clasts (0.5-8cm) in a feldspar x-tal rich black-grey, mud-silt pyritic matrix.

 Fine to mod. laminated siltstone + minor black shales

 Massive feldspar phyric volcaniclastic sandstone

 Interbedded laminated siltstones + fine grained sandstones



 Fault - Qtz veining + brecciation

 Shear zone







RGC EXPLORATION PTY. LIMITED
 INCORPORATED IN NEW SOUTH WALES

Miners Ridge EL. 47/83

Road Cutting

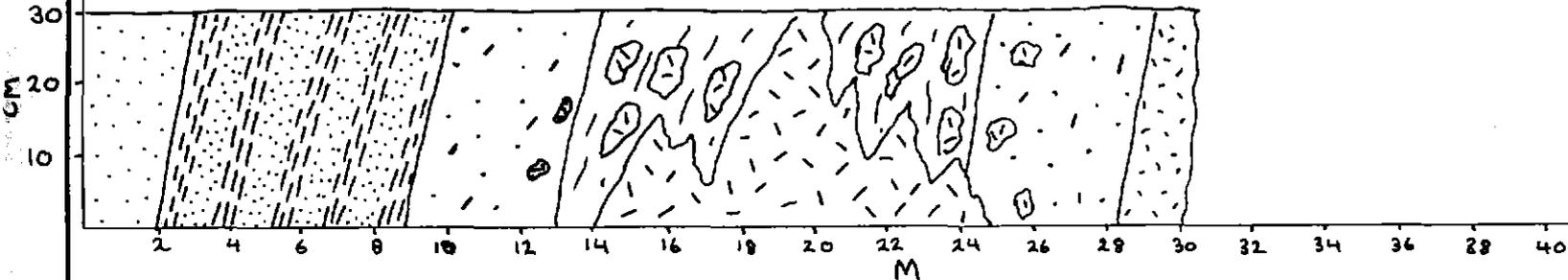
Section A

COMPILED	
DRAWN	17.4
DATE	24/7
CHECKED	
1:250 000 Reference	

5 cm

298009

TN
048
Looking NW



- Fine grained, well sorted, feldspathic sandstone
- Interbedded silts, shales + fg. sandstones
- Massive sandstone, minor angular shale clasts (.5-1cm) and rare rounded feld & Qtz phenocrysts (4cm)
- Medium grained, feld & Qtz phenocrysts rhyolite intrusive rounded clasts (4-10cm)
- Fine grained feld (Qtz?) dacite lava / volcaniclastic?

RGC EXPLORATION PTY. LIMITED
INCORPORATED IN NEW SOUTH WALES

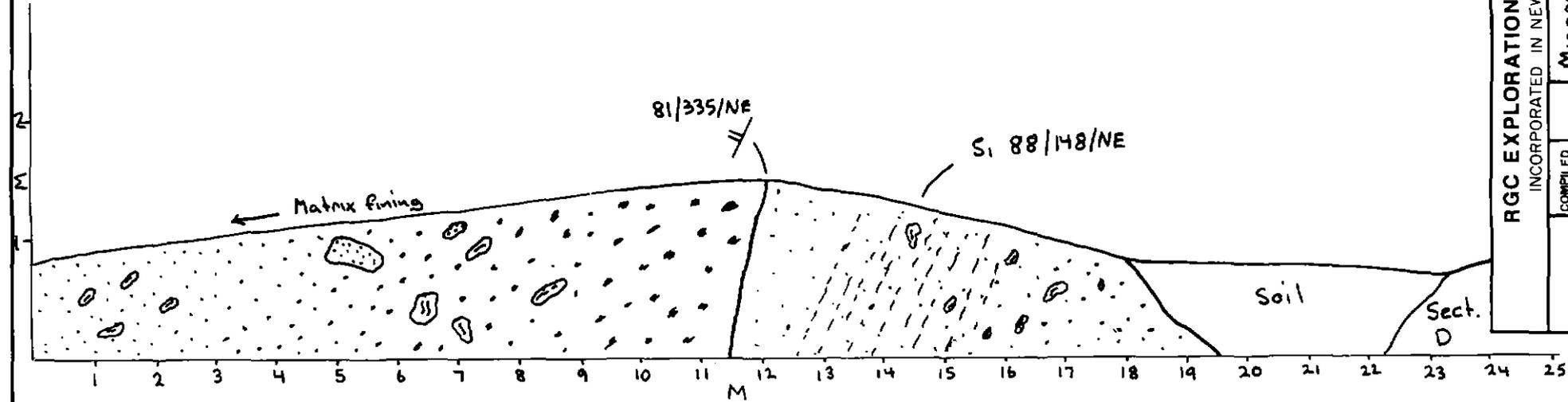
COMPILED	
DRAWN	D.G.
DATE	26/7
CHECKED	
1:200000	
Reference	

Miners Ridge E.L. 47/83
Road Trench
Section B

5 cm

298010

TN
349
Looking ENE



 Volcaniclastic mass flow unit, poor-mod. sorted, subangular - subrounded clasts of silt + shale (5-30cm) and sericitic VDFM clasts (5-10cm) in a mod-coarse sericitic VDFM/silt-mud matrix.

 Volcaniclastic mass flow unit, mod sorted, minor subangular - rounded silt + shale clasts (5-20cm) in a sericitic VDFM matrix, fining upward to a VDFM matrix with minor silt clasts (.5-2cm).

5 cm

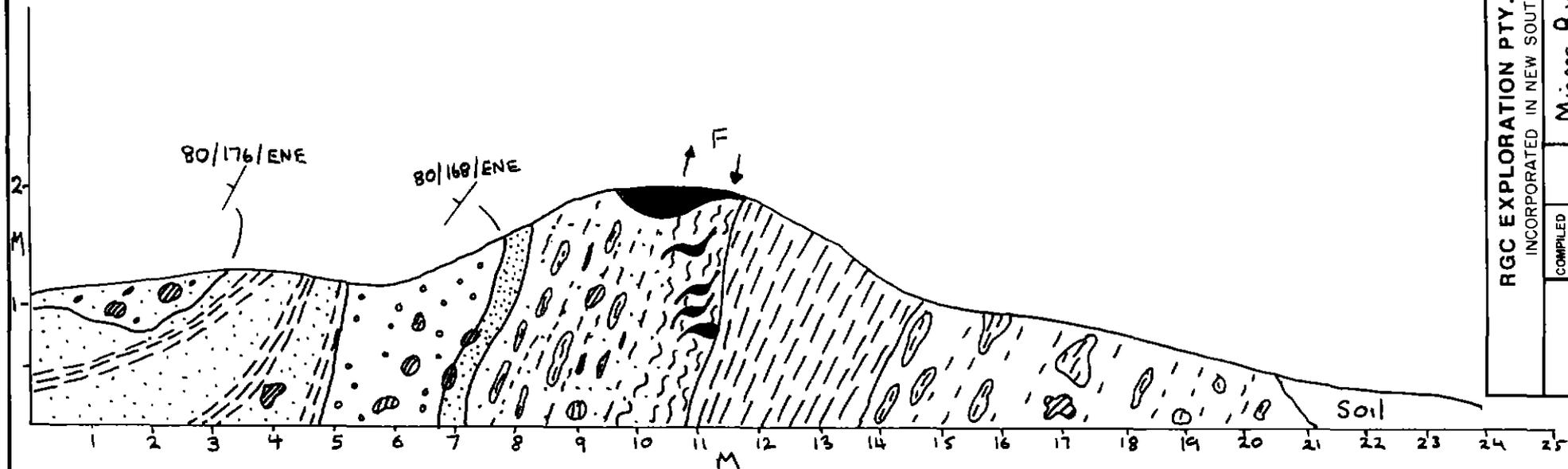
RGC EXPLORATION PTY. LIMITED
INCORPORATED IN NEW SOUTH WALES

Miners Ridge EL 47/83
Road Cutting
Section C

COMPILED	D.G.	CHECKED	1:250000
DRAWN	26/7	Reference	

298011

← TN
OH1 →
Looking ESE



-  Volcaniclastic feldspathic sandstone, mod. sorted, minor rounded shale clasts (.5-1cm) and pyrite clasts (1cm)
-  Interbedded siltstone, f.g. sandstones + minor black shales. Minor syngenetic pyrite blebs associated with shale beds (1cm).
-  Coarse grained, moderately sorted sandstone, minor subrounded shale clasts (.5-3cm), sericitic VDFC clasts (.5-1cm) and minor rounded pyrite clasts (1-3cm) in a silt/VDFC matrix.
-  Massive feldspathic sandstone
-  Volcaniclastic Mass Flow - poorly sorted with elongate angular shale + silt clasts (3-35cm) + minor rounded pyrite clasts (1cm) in a coarse feldspar, VDFC matrix.



Siltstone



Volcaniclastic mass flow, poorly sorted with angular-subangular clasts of siltstone (5-50cm) + subrounded black shale clasts (5-40cm) + minor rounded pyrite clasts (.5-8cm) in a sericitic cleaved VDFC matrix.



Shear zone, en-echelon atz veining



Pyrite clasts.



5 cm

RGC EXPLORATION PTY. LIMITED
INCORPORATED IN NEW SOUTH WALES

Miners Ridge EL 47183
Road Cutting
Section D

COMPILED	
DRAWN	D.G.
DATE	26/17
CHECKED	
1:250000	Reference

2. PREVIOUS EXPLORATION

Initial exploration in this area was carried out by Pickands Mather International in 1966-1967. Griding of the Lynch Creek area followed the detection of a drainage anomaly in Lynch Creek. Subsequent soil geochemistry isolated Pb and Cu anomalies that failed to respond to both ground magnetics and an electromagnetic survey.

Cyprus Mining Corporation (EL 47/70:1971-72) cut a new grid in the Lynch Creek - King River Mine area. Detailed geological mapping, soil geochemistry, ground magnetics and IP were carried out. No targets were isolated.

Renison Goldfields Consolidated Ltd. (EL 9/66:1980-82) conducted a stream sediment program to the north of King River that did not yield anomalous results. A DIGHEM survey produced subtle anomalies that were not followed up. Two lines of IP were carried out over the King River Gold Mine.

Follow up of all stream sediment, DIGHEM and EM anomalies were conducted by CRA / Pasminco (EL. 47/83:1986-89) and Aberfoyle-CRA JV (E.L. 47/83:1990-93). Stream sediment samples from Specimen Creek carried 3700 and 3400 ppt Au. A value of 840 ppb Au was obtained from selected dump material. Further griding and soil geochemistry was carried out over the Specimen Creek, Jukes Road and the HEC tunnel. Cu-Zn anomalies were located over andesites.

A bulk-cyanide leach stream sediment survey was conducted over the southern part of the EL (Newell Ck and Thomas Currie Rivulet areas) and no significant anomalies were obtained.

Table 1. Summary of Previous Exploration.

E.L. NUMBER	COMPANY	TENURE
	Pickands Mather International	1966-67
47/70	Cyprus Mining Corporation	1971-72
9/66	Renison Goldfields Consolidated	1980-82
47/83	CRA	1986-89
47/83	Aberfoyle Resources-CRA J.V.	1990-93

Exploration by RGC Exploration during 1994/96. (Vicary and Corlett, 1995 and Denver 1996).

At the Garfield Prospect in EL 102/87 a zone of disseminated and veinlet style chalcopyrite mineralisation has been discovered and occurs within hornblende phytic andesites. The mineralisation has a distinct magnetic signature and is readily discernible on the 1981 Mines Department aeromagnetic survey of western

Tasmania (Leaman, 1986). By applying knowledge gained from the Garfield Prospect on a regional basis it became apparent that a similar magnetic signature existed in the Queen River area within a similar geological environment. Mines Department mapping in the area (Calver et al, 1987 and Corbett et al, 1993) indicates that the magnetic anomaly is to the west of a line of andesites that trend south from the Lynchford area. The source of the anomaly is not readily apparent as the anomaly is situated over generally non-magnetic Yolande River Sequence. This anomaly requires further work.

In the first year of tenure exploration in EL 2/94 consisted in the evaluation of the southernmost magnetic anomaly. A grid was established in the Queen River area and a soil and rock chip sampling program completed. The grid was mapped at 1:5000 scale. No significant anomalies were detected by this programme.

In early 1995 a regional helimagnetics program across all RGC leases in western Tasmania included EL 2/94 (the pre-1995 part). The airborne magnetics survey flown by Aberfoyle has been stitched into the 1995 UTS helimag survey resulting in a full magnetics coverage of the EL.

A base map was produced from digital data obtained from the Lands Department for the 1:25,000 Strahan (3633) and Owen (3833) maps and the basal Tyndall Group was mapped at a scale of 1:5000.

Drill hole LF001 drilled by Aberfoyle has been re-logged.

3.1 Griding.

A grid extension of the Queen River Grid north, over a small circular magnetic anomaly was constructed totalling 5.3 line km. This prospect is referred to as the miners Ridge grid. There are five 900m east-west lines at 200m apart with pegs every 25m interval and a 800m north-south tie line at the western edge of the grid. GPS was used to provide accurate control points for each line prior to cutting. The grid was surveyed by tape and compass.

3.2 Mapping.

The miners ridge grid was mapped at a scale of 1:2500 and numerous road cuttings were mapped at a scale of 1:100. The base map was produced from digital data obtained from the Lands Department for the 1:25000 Strahan (3633) and Owen (3833) maps. The basal Tyndall group was mapped at 1:5,000 scale.

3.3 Soil Sampling.

Ninety six soil samples were collected by hand auger targeting the C horizon where possible. All samples were assayed by Analabs for Al, Ca, Cu, Pb, Zn, V, Sr, P, Ni, Mn, Mg by ICP, Ti by XRF and Au + 28 by NAA by Becquerel. Five hundred and sixty two sample pulps from the Queen River grid were re-assayed for Au + 28 by NAA by Becquerel.

3.4 Rock Chip Sampling.

Six rock chip samples were collected from the grid and analysed for Cu, Pb, Zn, Ag, As by AAS, and Au by Fire Assay. All samples were processed at Analabs.

3.5 Geophysics

A ground magnetic survey was conducted using one field, and one base station Geoinstruments G-856 proton precession magnetometer for data acquisition. Data was acquired at 5m station intervals on all six east-west grid lines and on the north-south tie line and HEC road.

3.6 Drilling

A 367m diamond drill hole LF002 was drilled by Diamond Drilling Tasmania using a Longyear 38 rig. No drill pad preparation was necessary as the hole was drilled from the HEC road. The hole is situated at 5334425mN 379870mE and drilled at -60/280°AMG.

4. RESULTS

4.1 Mapping.

Mapping at Lynchford has defined a significant jasperoid and haematite breccia unit at the base of the Tyndall Group. This unit occurs sporadically over a 1km+ strike length from Specimen Creek and extending to the north. This unit is interpreted to be a distal exhalite associated with a VMS system and warrant follow-up. Unfortunately the majority of the strike length of this unit occur within mining lease 27M/82 held by Paraclete Resources.

The fact map for this area is included as Plan 1. The Lynchford Tuff occurs predominantly as a red-brown soil with preserved kernels of a medium grained well sorted crystal sandstone consisting of feldspar, amphibole, magnetite and quartz crystals to 3-4mm. At the base of the Lynchford Tuff at both the contact with the Lynch Creek Basalt and the Yolande River Sequence a sequence of hematitic sandstones with patches of barite is recognised.

Drilling of this horizon has commenced.

Mapping over the Miners Ridge grid was hampered by poor outcrop (Plan 2). Best exposures are observed in road cuttings. Detailed 1:100 scale sections indicate that the geology is characteristic of the Yolande River Sequence feldspar phyric volcanoclastic sediments (Cys) as mapped by Vicary and Corlett (1995) further to the south on the Queen River Grid (Figs 2-5, Plan 2). This unit consists of fine-medium grained feldspar phyric volcanoclastic sandstones with interbedded black-cream siltstones, shales and graded mass-flow breccias. Mapping indicates the sequence is steeply dipping and facing to the east.

The mass flows contain large clasts (0.5m) of surrounding lithology's within a predominantly feldspar phyric matrix. In some mass flows the matrix may be dominated by black mud which was ingested into the flow as it scoured into unconsolidated mud's.

Massive pyrite clasts up to 10cm can be seen within the mass-flow breccias and smaller clasts within the feldspar phyric volcanoclastics. The pyrite clasts are well rounded which suggests they are extrabasinal.

A medium grained feldspar-quartz phyric rhyolite lava/intrusive forms a small prominent elongate ridge on line 4200GN 9850GE. A similar unit can be observed in road cutting (Fig 3).

Dacite lavas and breccias are common south of line 4600GN. In road cuttings massive dacite lavas can be seen to grade into dacitic monomict breccias and are interpreted to represent hyaloclastites.

Detail mapping of road cuttings and facies associations indicate that the volcanoclastics and fine grained sediments appear to be the result of single depositional processes. The feldspar phyric nature of the volcanoclastics suggest a single source environment and textural variations reflect different energy regimes during the course of deposition rather than different depositional processes.

A subaqueous environment is envisaged whereby mass flows have been generated by the collapse of dacite domes. Dacitic material has been transported as subaqueous mass flows. As the flows proceed they have scoured out other lithic clasts and ingested unconsolidated sediment within the matrix. The finer grained feldspar phyric sediments represent the waning periods of sedimentation and further more grade up into silts and shales during quite stable periods. Dacite domes were growing within this depositional environment resulting in hyaloclastite deposits which two may have been reworked and incorporated into mass flows.

No outcrop was found which could explain the magnetic anomaly.

4.2 Soil Geochemistry.

The results of the Miners Ridge soil sampling program are tabulated in Appendix 1 , and summarised in Table 1. Contour plots are listed in Appendix 2.

Table 1. Miners Ridge Soils: Cu, Pb, Zn, Au, Ba abundances.

	MAX	MIN	MEAN	COMMENTS
Cu ppm	161	DL	33.4	
Pb ppm	375	DL	47.3	
Zn ppm	525	6	45.2	
Au ppb	8.8	DL	DL	Only 3 samples above DL
Ba ppm	14500	DL	819.5	Most below 1000ppm

Overall lead, zinc and copper soil values are low, however there are some interesting associations within the soil geochemistry. A contour plot of > 35ppm Cu illustrates a direct correlation between copper and the magnetic anomaly. A 35ppm cut-off was used as this is a value considered to be anomalous over the Garfield mineralisation. Greater than 100ppm Pb and Zn contours shows the copper contour is partially rimmed by Pb and Zn and may reflect metal zonation.

Soil geochemistry also reflects broad lithotypes. The soil geochemistry over the magnetic high is characterised by elevated Mg, Fe, Ni, Cr, and reflects a mafic - andesite source. Low K and Rb may suggest the magnetic unit doesn't contain much feldspar in comparison to surrounding rocks. Surrounding rocks are low in Ca, Sr, Fe, Mg, and Ni and reflect a more felsic source. High Rb and K reflect the felspar phyric nature of the surrounding rocks, a feature observed in the field.

The soil geochemistry suggests that there is a mafic source in the centre of the grid which is flanked to the east and west by more felsic rocks. In association with the geology and magnetics the soil geochemistry may reflect an andesitic intrusion which has pushed up through the overlying Yolande River sediments causing them to fold around as an anticline.

NAA results from the Queen River Grid are not completed.

4.3 Rock Chip Geochemistry

Five feldspar phyric volcanoclastic rocks sampled containing moderate sericite alteration and up to 1% disseminated pyrite, returned low level base metal results

(Appendix 3). A massive sulphide clast within a mass flow unit (T42327) returned 109ppm Cu and low level lead and zinc contents.

4.4 Geophysics.

Computer modelling results show the region is dominated by a "bullseye" type magnetic response of approximately 500m radius. The modelled structure is interpreted to represent an intrusive plug within the core of an anticline. Intrusion may have caused folding of the overlying sedimentary pile or occurred into the core of previously folded strata. Local high amplitude anomalies within the main anomalous zone suggest the magnetic source is close to the surface. The lack of a broad regional anomaly suggests that the tail of the intrusive would have to be either, narrower than the surface area, or become less magnetic at depth. Likewise the magnetic response may represent a magnetic carapace of a large poorly magnetic intrusive.

A more detailed account of survey parameters, modelling parameters and results are described in Appendix 4.

4.5 Drilling.

A Longyear 38 diamond drill rig was set up to drill test the magnetic anomaly at Miners Ridge. The rig was situated on the HEC road closest to the magnetic body at 5334425mN 379870mE and drilled at -60/280AMG.

Diamond drilling at the Miners Ridge Prospect was completed to a depth of 367m. The geology consists of a distal volcanic facies of interbedded silts and graded volcanoclastic sandstones and localised andesitic - dacitic hyaloclastites and re-sedimented hyaloclastite breccia deposits, a summary log is outlined below.

Summary Log LF002

Depth (m)	Lithology	Code
0 - 24	Yellow - orange clay minor silts	Cly
24-30.10	Graded lithic and feldspar rich volcanoclastic sandstones	VDLM
30.10-54.3	Interbedded feldspar phyric volcanoclastic sandstones, siltstones and black shales	SEDS
54.3-55.82	Rhyolite breccia	VR<B
55.82-72.54	Interbedded feldspar phyric volcanoclastic sandstones, siltstones and black shales	SEDS
72.54-96.30	Dacite Breccia	VDFB

96.30-106.59	Polymict (andesite-dacite) volcanic breccia	UB
106.59-184.93	Feldspar phyric volcanoclastic sandstones	VDFM
184.93-278.18	Interbedded feldspar phyric volcanoclastic sandstones, siltstones and black shales	SEDS
278.18-304.80	Polymict (andesite-dacite) volcanic breccia	UB
304.80-306.42	Dacite Breccia	VDFB
306.42-329	Andesite Breccia	VAHB
329-356.50	Interbedded feldspar phyric volcanoclastic sandstones, siltstones and black shales	SEDS
356.50-367	Polymict (andesite-dacite) volcanic breccia	UB

A detailed graphic log is presented in appendix 5.

Disseminated pyrrhotite mineralisation is common and has been mechanically orientated as a lineation parallel to cleavage suggesting pre deformational mineralisation. Where pyrrhotite mineralisation is greater than 5%, disseminated and veinlet sphalerite mineralisation may reach up to 1%. Veinlet and blebby sphalerite appears to be syndeformational and is commonly precipitated in small quartz-carbonate tension veins.

A geological cross-section shows that the fine grained interbedded volcanoclastic sandstones, siltstones and shales form a traceable horizon (Plan 3). Bedding-core axis angles and facing indicate the sequence changes dip from 80deg to the east at surface, to approximately 60deg to the west 30m below surface, and becomes overturned. Although the geology is not exposed on the western portion of the grid geochemical data suggests that there is an anticlinal fold over the grid. If this is so then drill hole LF002 has drilled down stratigraphy on the eastern limb of a recumbent fold. It is also apparent that there is small scale secondary folding on the fold limb. Dacitic and andesitic breccias occur throughout the hole. Some breccias are totally monomict and are interpreted to represent insitu hyaloclastite deposits. Other breccias characteristically contain a narrow range of clast types and are commonly weakly graded. Clasts vary from splintery curvilinear shape to sub-rounded blocks and the deposits vary from matrix to clast supported and are interpreted to represent localised re-sedimented hyaloclastite deposits. The morphology of the breccia deposits suggest submarine dacite and andesite domes formed and the variability within breccia deposits reflects proximal and distal facies changes of autoclastic deposits. As expected these are not laterally consistent and cannot be correlated throughout the drill section.

One hundred and eleven drill core samples were assayed for Pb, Cu, Zn, Ag by Analabs. Three samples were sent to becquerel for Au + 28 by Neutron Activation. Base metal results were disappointing with Cu, Pb, Zn, and Ag generally returning low levels (Appendix 6). Some anomalous Zn was recorded within fine grained sediments with up to 5% pyrrhotite and visible sphalerite, these included:-

from 254 - 256m, 2m @ 0.34% Zn;
260 - 262m, 2m @ 0.34% Zn;
273 - 275m, 2m @ 0.21% Zn.

Neutron activation results of andesitic breccias seen in core have a geochemically similar signature to the soils samples over the magnetic anomaly. As expected the andesites have high Fe, Cr, and Cu values comparable to the soil geochemistry. The K values are greater in core than in the soils and may reflect K mobility within the soil profile (Appendix 7).

5. RECOMMENDATIONS

The hematite-jasper breccias at the base of the Tyndall Group are of a high interest. Drilling of this contact has commenced. This contact need to be mapped at 1:1000 scale south of the Specimen Creek Fault.

The ground held by Paraclete Resources should be actively pursued for either an option or joint venture opportunity.

Magnetic susceptibility readings of drill core from LF002 indicate that andesite breccia units, and pyrrhotite mineralisation have insufficient magnetism to explain the magnetic anomaly. Drill hole LF002 drilled down stratigraphy and failed to intersect a magnetic source that can explain the magnetic anomaly. Soil samples over the magnetic anomaly are chemically similar to andesite drill core samples suggesting an andesitic source may be responsible for the magnetic anomaly.

Soil geochemistry and drilling suggest there is a recumbent fold folded around what is possibly a mushroom shaped or detached andesite intrusion. The nature of the magnetic response remains unexplained. The sphalerite mineralisation may reflect temperature zonation from copper-gold mineralisation within and at the margins of an andesite intrusive. This zonation is weakly defined in soil geochemistry.

Drilling to date has not explained the magnetic response and it still remains untested for Garfield type mineralisation. A short hole is recommended on the western margin of the grid to intersect the magnetic anomaly at its shallowest point. The hole should be situated on grid line 4400N 9420E to drill -60/ 090AMG. The drill hole will aid in structural and geological interpretations as well as assisting in the future exploration of the larger magnetic anomaly to the south over the Queen River Grid. A track will need to be cleared from the HEC road to the site.

When the Queen River Neutron Activation soil samples are returned they should be contoured and compared with geochemical patterns seen at Miners Ridge. Any decision on the prospectively of the Queen River magnetic anomaly should be reserved until the Miners Ridge anomaly is explained.

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APPENDIX 1

APPENDIX 1

SAMPLE	TEAST	TNORTH	AG N	AL A	AS A	AS N	AU N	BA N	BR N	CA A	CE N	CO N	CR N	CS N
43201	380098.12	5334217.74	-5	21900	0	-1.000	-5.0	181	7.760	250	39.200	-1.000	7.100	2.220
43202	380048.49	5334215.67	-5	101800	0	7.860	-5.0	807	66.600	550	190.000	9.820	131.000	1.810
43203	379999.50	5334213.00	-5	32500	0	1.430	-5.0	430	15.000	450	71.700	-1.000	14.400	2.180
43204	379950.51	5334210.33	-5	37300	0	1.260	-5.0	474	18.400	450	57.400	-1.000	27.500	2.430
43205	379899.65	5334207.60	-5	56700	0	1.590	-5.0	601	5.980	650	125.000	17.000	49.000	2.680
43206	379851.89	5334205.58	-5	31500	0	1.590	-5.0	292	25.000	250	54.700	-1.000	24.300	2.490
43207	379799.72	5334205.30	-5	1450	0	1.210	-5.0	-100	85.500	1200	3.320	-1.000	10.000	-1.000
43208	379749.49	5334202.59	-5	92900	0	43.700	7.3	1660	27.100	250	119.000	3.740	44.600	4.640
43209	379696.14	5334200.42	-5	77700	0	10.800	-5.0	924	22.500	350	98.000	7.660	79.000	4.590
43210	379644.03	5334198.27	-5	48700	0	36.700	-5.0	807	2.620	550	66.300	52.400	28.900	3.060
43211	379594.45	5334194.34	-5	17500	0	5.820	-5.0	240	44.500	200	44.800	1.900	29.400	1.160
43212	379544.86	5334191.03	-5	781	0	17.100	-5.0	2300	8.970	650	164.000	20.000	53.200	7.630
43213	379493.37	5334188.91	-5	32100	0	3.460	-5.0	619	28.100	250	95.600	1.140	53.300	1.170
43214	379444.36	5334186.85	-5	13100	0	5.350	-5.0	251	15.900	400	8.350	-1.000	28.300	1.970
43215	379397.19	5334185.48	-5	52100	0	14.700	-5.0	1220	28.400	250	75.400	-1.000	71.200	4.530
43216	379345.72	5334182.73	-5	68100	0	20.800	-5.0	696	99.000	500	28.600	1.730	81.400	3.730
43217	379294.18	5334182.47	-5	67000	0	22.000	-5.0	804	73.200	200	61.000	-1.000	76.700	6.420
43218	379246.43	5334179.83	-5	66700	0	30.900	-5.0	848	39.600	200	170.000	-1.000	76.100	4.440
43219	380083.72	5334412.97	-5	35100	0	2.270	-5.0	569	21.300	200	47.300	-1.000	61.500	2.940
43220	380035.99	5334409.72	-5	79100	0	16.100	-5.0	801	28.800	350	59.800	-1.000	20.700	5.630
43221	379985.10	5334408.23	-5	51500	0	9.760	-5.0	477	16.900	150	63.100	-1.000	84.500	5.500
43222	379936.70	5334406.82	-5	35900	0	1.150	-5.0	180	20.600	200	48.100	-1.000	16.300	3.680
43223	379888.96	5334403.56	-5	35900	0	1.690	-5.0	404	20.600	300	57.800	-1.000	39.800	3.310
43224	379835.01	5334400.74	-5	900	0	-1.000	-5.0	-100	13.500	300	4.120	-1.000	10.500	-1.000
43226	379786.59	5334399.95	-5	11800	0	2.110	-5.0	177	21.100	1650	24.100	1.050	109.000	-1.000
43227	379735.73	5334397.22	-5	10500	0	1.880	-5.0	122	16.800	700	38.500	1.000	111.000	1.010
43228	379686.10	5334395.15	-5	81300	0	13.100	-5.0	1030	48.600	300	95.500	-1.000	68.500	3.280
43229	379636.94	5334393.78	-5	54700	0	3.520	-5.0	842	21.700	550	45.800	1.910	83.700	4.660
43230	379587.39	5334393.51	-5	68700	0	14.900	-5.0	573	21.700	500	45.300	1.250	74.300	4.070
43231	379537.13	5334392.05	-5	91000	0	11.900	-5.0	655	41.000	600	141.000	2.320	59.600	4.260
43232	379489.96	5334390.67	-5	73700	0	11.400	-5.0	373	77.700	250	139.000	2.190	116.000	-1.000
43233	379441.54	5334389.88	-5	89100	0	19.600	-5.0	411	79.600	400	98.900	4.630	157.000	3.480
43234	379391.89	5334388.43	-5	89400	0	19.700	-5.0	552	68.900	700	118.000	2.430	133.000	5.430
43235	379342.26	5334386.36	-5	9400	0	2.790	-5.0	140	12.900	200	6.390	-1.000	28.000	-1.000

APPENDIX 1

SAMPLE	TEAST	TNORTH	AG N	AL A	AS A	AS N	AU N	BA N	BR N	CA A	CE N	CO N	CR N	CS N
43236	379290.81	5334382.99	-5	57800	0	2.710	-5.0	549	25.600	300	80.800	1.050	16.900	3.980
43237	379244.30	5334380.39	-5	82700	0	5.380	-5.0	900	4.500	400	124.000	3.510	18.800	4.940
43238	379192.74	5334380.75	-5	44600	0	8.490	-5.0	620	15.200	300	52.400	-1.000	13.700	3.030
43239	379219.92	5334556.08	-5	65400	0	5.300	-5.0	922	54.400	450	82.900	2.500	7.200	5.450
43240	379269.54	5334558.15	-5	33500	0	3.090	-5.0	544	14.900	150	38.700	-1.000	34.600	3.420
43241	379316.66	5334561.39	-5	29000	0	1.500	-5.0	382	16.000	150	43.900	-1.000	14.900	2.780
43242	379366.32	5334562.22	-5	63600	0	5.150	-5.0	527	14.900	200	79.500	-1.000	16.600	4.140
43243	379417.77	5334565.58	-5	53100	0	20.200	5.1	628	30.700	250	71.500	1.170	32.400	3.080
43244	379464.89	5334568.82	-5	60200	0	20.300	-5.0	798	22.200	2150	74.800	15.600	56.100	5.010
43245	379515.70	5334572.79	-5	63200	0	9.160	8.8	623	17.700	1600	383.000	4.970	73.700	2.160
43246	379564.62	5334577.94	-5	67100	0	11.800	-5.0	1700	5.800	1250	125.000	35.300	37.700	2.140
43247	379612.95	5334581.84	-5	61400	0	12.800	-5.0	447	42.000	550	27.600	3.140	72.000	2.700
43248	379661.91	5334585.75	-5	82700	0	5.350	-5.0	941	15.600	1650	50.100	4.170	145.000	3.470
43249	379711.59	5334585.96	-5	86500	0	15.200	-5.0	396	184.000	900	584.000	20.500	599.000	1.500
43251	379758.10	5334588.56	-5	16900	0	3.310	-5.0	228	9.790	100	16.300	1.290	24.800	1.450
43252	379810.14	5334593.18	-5	5150	0	5.980	-5.0	-100	9.700	300	7.660	-1.000	19.400	-1.000
43253	379857.96	5334593.34	-5	89600	0	5.950	-5.0	990	13.000	1350	144.000	4.330	61.900	5.490
43254	379908.15	5334597.29	-5	44200	0	3.220	-5.0	2080	12.200	250	75.800	-1.000	26.300	3.670
43255	379958.37	5334600.62	-5	18600	0	2.590	-5.0	322	20.000	150	38.000	1.030	29.600	1.430
43256	380006.12	5334603.25	-5	51400	0	10.900	-5.0	532	42.800	300	172.000	4.850	85.200	2.710
43257	380059.45	5334606.05	-5	32800	0	1.150	-5.0	243	20.300	150	49.300	-1.000	14.900	2.490
43258	380105.98	5334608.03	-5	56300	0	-1.000	-5.0	434	37.300	650	69.400	-1.000	18.300	3.500
43259	380096.14	5334804.71	-5	16300	0	1.690	-5.0	325	16.000	150	42.400	-1.000	17.500	1.270
43260	380047.62	5334802.98	-5	101500	0	19.200	-5.0	1060	86.000	1350	95.200	3.030	52.200	2.940
43261	379999.13	5334800.00	-5	95800	0	37.200	-5.0	2900	9.590	2000	122.000	8.800	33.200	8.250
43262	379948.76	5334797.61	-5	67600	0	3.010	-5.0	1520	24.300	750	74.000	-1.000	10.000	5.580
43263	379899.62	5334795.87	-5	75300	0	-1.000	-5.0	2860	4.510	650	84.000	1.430	-5.000	6.830
43264	379850.51	5334792.88	-5	58800	0	1.750	-5.0	14500	10.100	900	51.100	-1.000	12.300	4.780
43265	379800.74	5334791.12	-5	27400	0	4.970	-5.0	613	23.800	200	74.500	-1.000	33.100	2.600
43266	379752.86	5334788.79	-5	15800	0	6.960	-5.0	270	15.500	1850	33.100	-1.000	101.000	1.460
43267	379702.51	5334785.77	-5	63100	0	13.800	-5.0	792	21.900	550	191.000	-1.000	45.900	4.450
43268	379652.19	5334780.89	-5	8300	0	3.620	-5.0	168	11.000	150	23.000	1.040	19.100	-1.000
43269	379603.04	5334779.77	-5	70300	0	11.900	-5.0	714	49.200	700	196.000	4.080	41.000	2.720
43270	379552.65	5334777.99	-5	66200	0	31.300	-5.0	162	95.800	750	101.000	5.370	71.300	1.020

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SAMPLE	TEAST	TNORTH	AG N	AL A	AS A	AS N	AU N	BA N	BR N	CA A	CE N	CO N	CR N	CS N
43271	379502.93	5334774.37	-5	91700	0	11.600	-5.0	222	35.200	1500	95.300	2.580	62.900	1.730
43272	379452.52	5334773.84	-5	87400	0	13.400	-5.0	1310	23.900	800	22.800	-1.000	25.700	5.120
43273	379404.65	5334770.88	-5	72400	0	1.930	-5.0	832	17.900	600	59.500	-1.000	17.000	6.100
43274	379354.27	5334769.11	-5	28900	0	2.160	-5.0	308	27.900	250	35.200	-1.000	17.300	2.110
43276	379303.90	5334766.72	-5	35200	0	1.360	-5.0	462	25.800	450	41.100	-1.000	20.000	2.930
43277	379253.54	5334763.70	-5	29500	0	1.950	-5.0	237	27.300	200	33.200	-1.000	15.500	2.290
43278	379205.67	5334760.74	-5	19300	0	2.170	-5.0	250	19.200	250	48.600	-1.000	11.700	1.680
43279	380104.28	5335020.91	-5	38100	0	2.490	-5.0	1070	14.100	250	54.500	-1.000	15.700	3.910
43280	380055.18	5335017.30	-5	26600	0	50.300	-5.0	481	30.800	400	17.800	2.690	30.100	2.900
43281	380007.92	5335014.98	-5	64900	0	-1.000	-5.0	831	7.120	750	95.100	-1.000	16.500	4.730
43282	379957.55	5335012.59	-5	83700	0	5.360	-5.0	640	28.000	1050	87.400	-1.000	5.800	5.520
43283	379908.41	5335010.84	-5	24100	0	1.130	-5.0	351	11.800	200	36.000	-1.000	13.700	2.060
43284	379857.97	5335011.56	-5	53000	0	1.290	-5.0	582	13.000	750	73.100	-1.000	-5.000	3.940
43285	379810.05	5335011.09	-5	33500	0	2.590	-5.0	365	45.100	500	44.500	-1.000	11.300	2.200
43286	379760.93	5335008.10	-5	24800	0	1.210	-5.0	282	20.700	350	48.200	-1.000	8.800	2.050
43287	379711.14	5335007.59	-5	76700	0	5.100	-5.0	1370	15.600	1050	116.000	1.350	-5.000	6.190
43288	379660.76	5335005.82	-5	45700	0	1.380	-5.0	631	10.200	350	88.500	-1.000	5.300	4.070
43289	379612.24	5335004.09	-5	61700	0	4.370	-5.0	601	27.200	1550	100.000	-1.000	6.200	7.420
43290	379561.87	5335001.69	-5	58300	0	2.350	-5.0	785	15.300	1300	83.100	-1.000	5.800	5.280
43291	379512.12	5334999.31	-5	62600	0	1.570	-5.0	534	4.020	1000	97.100	1.320	-5.000	4.130
43292	379467.38	5334995.80	-5	79400	0	23.500	-5.0	601	18.800	2050	96.100	2.100	16.100	7.430
43293	379416.40	5334992.77	-5	57000	0	12.500	-5.0	1040	11.800	1350	56.200	-1.000	32.300	4.240
43294	379367.33	5334987.92	-5	36300	0	1.350	-5.0	572	20.200	850	38.600	-1.000	51.300	2.820
43295	379317.02	5334983.04	-5	29400	0	1.790	-5.0	484	11.600	450	64.700	-1.000	11.700	3.340
43296	379266.04	5334980.01	-5	48200	0	1.550	-5.0	525	35.900	1000	44.300	-1.000	23.400	3.270
43297	379217.53	5334977.66	0	0	0	0.000	0.0	0	0.000	0	0.000	0.000	0.000	0.000

APPENDIX 1

SAMPLE	CU A	EU N	FE N	HF N	IR N	KN	LAN	LU N	MG A	MN A	MO N	NA N	NI A	PA	RB N	PB2 A
43201	9	-0.500	0.430	4.400	-20	1.010	17.50	0.310	1210	37	-5	0.037	-10	50	47.50	13
43202	61	3.420	10.400	6.450	-20	-0.200	119.00	0.390	12900	297	-5	0.012	26	250	-20.00	64
43203	12	0.780	0.440	6.680	-20	0.930	36.30	0.340	1240	38	-5	0.041	-10	100	47.50	15
43204	31	-0.500	0.600	4.590	-20	1.210	29.50	0.250	1280	54	-5	0.057	-10	100	50.60	12
43205	11	1.550	4.410	3.740	-20	1.060	66.50	0.260	11800	163	-5	0.047	22	150	58.00	20
43206	44	0.570	0.610	3.130	-20	1.100	29.40	-0.200	1010	48	-5	0.058	-10	100	44.30	42
43207	14	-0.500	0.360	1.010	-20	-0.200	1.49	-0.200	390	33	-5	0.018	-10	100	-20.00	-10
43208	71	1.290	5.610	6.120	-20	1.900	69.20	0.390	2120	29	-15	0.030	15	300	77.70	54
43209	19	1.310	5.240	5.190	-20	1.210	59.80	0.250	19200	359	-5	0.097	22	200	56.10	22
43210	36	0.930	2.560	3.110	-20	0.970	34.80	0.200	4480	102	-5	0.272	45	100	39.70	20
43211	28	0.540	0.940	5.010	-20	0.310	24.50	-0.200	1400	-10	-5	0.046	-10	150	-20.00	16
43212	140	2.070	3.010	5.280	-20	2.340	88.30	0.360	8230	209	-5	0.240	18	250	104.00	24
43213	37	1.260	0.900	5.120	-20	0.360	49.40	0.230	2430	76	-5	0.061	-10	250	25.20	33
43214	44	-0.500	0.630	2.940	-20	0.400	4.27	-0.200	1110	28	-5	0.031	-10	100	-20.00	48
43215	28	0.820	2.860	6.820	-20	1.360	40.80	0.330	3860	65	-5	0.033	-10	200	72.10	38
43216	15	0.570	5.110	8.100	-20	1.020	13.70	0.460	8640	156	-10	0.562	15	250	42.00	21
43217	43	0.720	3.640	3.880	-20	1.520	31.90	0.300	4040	44	-5	0.032	-10	200	88.50	74
43218	71	1.510	5.900	5.820	-20	0.520	101.00	0.270	3120	48	-5	0.054	10	300	31.70	42
43219	22	-0.500	0.720	2.960	-20	1.510	24.00	0.210	1880	53	-5	0.040	-10	100	72.40	95
43220	19	1.030	1.230	4.750	-20	2.170	28.70	0.370	1920	22	-5	0.070	-10	50	110.00	-10
43221	25	0.560	0.630	3.420	-20	2.290	30.10	0.260	2240	36	-5	0.090	-10	100	102.00	11
43222	14	0.530	0.400	3.890	-20	1.150	24.50	0.250	870	30	-5	0.068	-10	100	47.00	10
43223	25	-0.500	0.340	3.040	-20	1.250	29.40	0.210	1410	26	-5	0.072	-10	150	54.90	25
43224	26	-0.500	0.460	0.700	-20	-0.200	2.43	-0.200	140	38	-5	0.010	-10	-50	-20.00	-10
43225	121	-0.500	1.330	4.070	-20	0.440	12.50	-0.200	1000	131	-5	0.092	-10	100	-20.00	20
43227	34	-0.500	0.840	6.490	-20	0.280	19.40	0.280	530	75	-5	0.054	-10	100	-20.00	16
43228	33	1.450	5.430	5.800	-20	1.300	51.30	0.350	8270	236	-5	0.026	-10	350	59.40	19
43229	29	0.530	1.030	4.090	-20	1.710	23.60	0.220	4940	144	-5	0.038	16	150	76.60	33
43230	24	-0.500	1.910	7.390	-20	0.860	26.20	0.270	2740	60	-5	0.020	13	200	63.20	28
43231	32	1.560	2.300	7.850	-20	0.550	91.70	0.290	2830	64	-10	0.044	13	400	41.00	30
43232	81	1.610	7.470	6.770	-20	-0.200	100.00	0.370	1160	58	-5	0.017	15	700	-20.00	51
43233	96	1.240	11.300	5.130	-20	0.670	60.60	0.250	2060	74	-5	0.045	27	650	34.90	32
43234	46	1.280	4.630	6.650	-20	1.240	68.10	0.350	8260	186	-5	0.278	15	350	46.90	27
43235	29	-0.500	0.760	2.250	-20	0.200	3.99	-0.200	440	63	-5	0.012	-10	100	-20.00	-10

APPENDIX 1

SAMPLE	CC A	EC N	FE N	HF N	IR N	K N	LA N	LC N	MG A	MN A	MO N	NA N	NI A	P A	RB N	PB2 A
43236	35	1.060	0.860	6.070	-20	2.380	40.40	0.420	1840	50	-5	0.155	-10	200	101.00	21
43237	16	1.710	2.910	6.580	-20	2.650	61.60	0.560	7340	82	-5	1.050	-10	400	121.00	18
43238	17	0.620	1.300	4.440	-20	1.900	25.00	0.310	1140	53	-5	0.072	-10	100	80.10	10
43239	19	1.490	2.130	6.330	-20	1.540	38.30	0.520	3910	107	-5	0.643	-10	100	84.70	22
43240	21	0.520	0.990	3.440	-20	1.420	18.10	0.290	1630	74	-5	0.055	-10	50	79.50	19
43241	20	0.700	0.610	5.010	-20	0.750	21.10	0.310	1080	47	-5	0.182	-10	100	53.10	-10
43242	23	1.110	0.830	6.800	-20	2.580	39.30	0.480	1970	47	-10	0.350	-10	150	99.10	17
43243	19	0.970	4.590	5.210	-20	0.980	40.00	0.220	1950	54	-5	0.026	-10	150	54.00	15
43244	54	1.360	2.360	5.160	-20	1.100	37.20	0.330	6620	232	-5	1.180	24	400	77.20	110
43245	149	4.530	2.140	4.570	-20	0.590	159.00	0.400	7330	236	-5	0.533	24	450	-20.00	202
43246	89	1.440	3.470	3.950	-20	0.680	63.90	0.270	9870	671	-5	0.887	34	150	-20.00	82
43247	36	-0.500	5.390	3.900	-20	0.920	18.70	-0.200	7650	331	-5	0.031	25	150	33.10	57
43248	35	0.780	2.950	4.740	-20	1.270	27.60	0.260	14900	670	-5	0.024	29	300	47.20	48
43249	51	5.650	10.400	12.900	-20	-0.500	228.00	0.350	28900	673	-10	0.017	71	1150	-20.00	52
43251	26	-0.500	1.440	2.400	-20	0.380	9.09	-0.200	890	137	-5	0.024	-10	50	-20.00	300
43252	21	-0.500	1.360	1.720	-20	-0.200	4.11	-0.200	420	79	-5	0.012	-10	-50	-20.00	66
43253	18	1.390	2.620	5.000	-20	1.930	77.00	0.240	7270	209	-5	0.093	23	250	93.40	185
43254	31	0.900	0.770	5.360	-20	1.500	41.60	0.210	2090	52	-5	0.032	-10	100	70.70	40
43255	11	-0.500	2.570	3.350	-20	0.490	21.10	-0.200	920	264	-5	0.029	11	100	28.40	18
43256	27	1.670	4.640	4.880	-20	0.630	94.20	0.240	8070	218	-5	0.165	23	300	33.10	280
43257	11	-0.500	0.730	3.160	-20	1.250	25.40	0.240	980	63	-5	0.052	-10	100	57.30	18
43258	15	0.820	0.540	4.670	-20	1.940	35.20	0.380	1530	28	-5	0.077	-10	100	95.90	14
43259	30	-0.500	1.140	2.280	-20	0.560	22.30	-0.200	930	102	-5	0.019	-10	50	28.40	37
43260	64	0.930	9.860	4.460	-20	0.510	60.50	0.250	3320	188	-10	0.016	13	550	33.40	375
43261	17	1.360	3.680	6.610	-20	3.910	60.50	0.530	7750	207	-10	0.129	17	450	176.00	175
43262	56	0.910	0.910	6.450	-20	2.490	34.70	0.540	2660	34	-10	0.083	12	200	112.00	81
43263	-5	1.340	0.850	6.150	-20	3.180	39.00	0.560	2820	23	-5	0.081	-10	100	164.00	-10
43264	17	0.840	0.580	4.730	-20	2.260	23.70	0.380	2860	27	-5	0.045	10	50	103.00	51
43265	24	0.840	0.830	5.480	-20	0.890	37.70	0.270	1420	69	-5	0.170	-10	200	54.30	55
43266	32	0.540	1.060	5.670	-20	0.640	15.90	0.290	1080	73	-5	0.110	-10	100	27.50	38
43267	16	1.580	1.900	6.230	-20	1.640	120.00	0.290	3650	85	-5	0.024	-10	300	84.90	134
43268	20	-0.500	0.960	2.980	-20	-0.200	12.10	-0.200	580	68	-5	0.023	-10	50	-20.00	24
43269	34	1.600	6.070	5.730	-20	0.690	112.00	0.310	14600	453	-10	0.042	21	550	42.30	246
43270	57	0.750	9.280	5.550	-20	-0.200	58.30	0.220	9450	309	-10	0.123	21	550	-20.00	151

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SAMPLE	CU A	EU N	FE N	HF N	IR N	K N	LA N	LU N	MG A	MN A	MO N	NA N	NI A	P A	RE N	PB2 A
43271	31	0.520	3.740	5.190	-20	-0.200	41.60	-0.200	1220	104	-10	0.012	12	300	24.00	25
43272	37	-0.500	3.260	7.560	-20	1.950	13.70	0.330	3560	91	-10	0.020	13	250	103.00	42
43273	11	0.770	0.510	6.020	-20	2.470	27.90	0.410	2730	31	-5	0.094	-10	100	137.00	20
43274	36	-0.500	0.860	2.970	-20	0.880	17.50	-0.200	960	64	-5	0.051	-10	100	46.90	32
43276	161	0.610	0.780	3.590	-20	1.330	19.50	0.290	1140	68	-5	0.065	-10	100	66.10	28
43277	30	-0.500	0.770	3.690	-20	1.020	14.80	0.320	940	59	-5	0.041	-10	100	42.40	17
43278	30	-0.500	0.730	7.160	-20	0.720	22.50	0.350	810	59	-5	0.026	-10	100	26.80	32
43279	13	0.630	0.750	5.000	-20	1.780	27.60	0.320	2810	70	-5	0.140	-10	50	71.00	16
43280	17	-0.500	21.200	3.500	-20	0.400	11.60	0.220	1980	1670	-5	0.258	-10	1750	31.40	71
43281	13	1.360	0.660	6.790	-20	3.090	45.80	0.540	2610	36	-10	0.148	-10	100	139.00	17
43282	9	1.230	1.740	6.630	-20	2.220	41.80	0.560	2550	46	-5	0.038	11	100	106.00	17
43283	20	-0.500	0.850	4.900	-20	1.080	15.80	0.310	720	59	-5	0.023	-10	50	49.60	15
43284	12	0.980	0.760	8.410	-20	1.740	33.90	0.670	1700	34	-5	0.163	-10	100	112.00	-10
43285	37	0.580	0.830	7.570	-20	1.240	19.90	0.450	1300	45	-5	0.027	-10	100	55.20	40
43286	17	0.650	0.850	7.610	-20	0.910	21.80	0.570	920	58	-5	0.077	-10	50	55.30	14
43287	9	1.660	2.630	9.500	-20	2.690	53.10	0.690	2860	48	-5	0.020	-10	100	140.00	17
43288	8	1.380	0.960	9.830	-20	1.680	38.90	0.910	1650	49	-5	0.226	-10	100	96.10	15
43289	26	1.390	1.710	8.400	-20	1.290	46.50	0.590	2490	68	-5	0.283	-10	150	97.60	15
43290	15	1.060	1.250	10.400	-20	1.830	44.20	0.630	2260	120	-5	0.226	-10	150	102.00	19
43291	10	1.420	3.090	8.250	-20	2.540	44.60	0.580	5000	115	-5	0.832	-10	100	105.00	-10
43292	40	1.140	4.440	8.250	-20	1.780	45.90	0.450	3430	27	-10	0.020	-10	300	88.30	43
43293	8	0.700	0.690	5.630	-20	2.140	26.60	0.460	2620	26	-5	0.055	-10	100	112.00	21
43294	9	-0.500	0.530	3.950	-20	1.550	17.00	0.300	1910	35	-5	0.042	-10	100	72.10	11
43295	26	1.010	0.750	11.000	-20	0.950	28.40	0.560	1310	36	-5	0.016	-10	100	43.80	30
43296	6	-0.500	0.950	6.410	-20	1.810	21.40	0.280	2240	87	-5	0.044	-10	100	74.80	11
43297	0	0.000	0.000	0.000	0	0.000	0.00	0.000	0	0	0	0.000	0	0	0.00	0

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SAMPLE	S A	SB N	SC N	SE N	SM N	SN	SR A	TA N	TH N	TI X	U N	V A	W N	YB N	ZN A	ZN N
43201	100	0.840	3.290	-5	3.290	0	3	-1.000	6.760	1075	2.200	4	-2.00	2.160	13	-100
43202	200	0.780	25.900	-5	16.500	0	42	-1.000	46.900	5090	3.620	231	-2.00	2.590	184	224
43203	200	1.070	5.810	-5	5.250	0	39	-1.000	9.810	2210	2.260	21	-2.00	2.170	10	-100
43204	350	1.240	8.110	-5	3.990	0	19	-1.000	10.000	1770	2.010	46	-2.00	1.610	9	-100
43205	200	1.570	21.600	-5	8.150	0	24	-1.000	20.200	2800	3.150	150	-2.00	1.730	58	111
43206	350	1.030	6.460	-5	3.240	0	16	-1.000	8.480	1710	-2.000	48	-2.00	1.110	16	-100
43207	600	0.310	0.470	-5	0.250	0	10	-1.000	0.800	985	-2.000	3	-2.00	-0.500	11	-100
43208	200	6.110	21.500	-5	7.410	0	23	1.160	29.800	3390	9.050	190	-2.00	2.690	26	-100
43209	150	2.290	25.300	-5	6.070	0	15	1.330	20.000	3740	4.340	189	-2.00	1.680	64	130
43210	17800	4.260	12.200	-5	4.460	0	40	-1.000	13.400	1510	3.250	100	-2.00	1.390	24	-100
43211	500	0.760	7.020	-5	2.680	0	9	-1.000	6.820	2425	-2.000	38	-2.00	0.830	9	-100
43212	10200	2.300	22.300	-5	11.300	0	54	1.590	18.900	3155	4.150	138	-2.00	2.500	59	129
43213	350	0.960	8.600	-5	6.060	0	36	-1.000	9.100	2755	-2.000	51	-2.00	1.480	17	-100
43214	400	2.920	3.970	-5	0.670	0	12	-1.000	3.210	2765	-2.000	47	-2.00	0.880	16	-100
43215	200	1.980	12.700	-5	4.850	0	26	-1.000	12.100	4690	2.320	119	-2.00	2.190	20	-100
43216	450	1.550	15.800	-5	2.750	0	48	-1.000	20.500	3995	5.100	125	-2.00	3.090	28	-100
43217	300	4.100	14.500	-5	3.910	0	14	-1.000	13.700	3595	3.760	208	-2.00	1.990	14	-100
43218	200	1.850	18.300	-5	9.300	0	86	-1.000	22.200	6405	2.640	154	-2.00	2.000	16	-100
43219	250	1.430	10.300	-5	3.230	0	8	-1.000	7.550	2585	2.620	104	-2.00	1.370	12	-100
43220	150	2.060	12.000	-5	4.700	0	19	1.090	10.500	5615	2.650	85	-2.00	2.350	9	-100
43221	200	2.900	10.400	-5	4.350	0	18	-1.000	9.210	3075	3.660	75	-2.00	1.810	14	-100
43222	250	0.890	6.180	-5	3.350	0	35	-1.000	9.250	2345	-2.000	33	-2.00	1.740	6	-100
43223	350	1.040	7.300	-5	2.990	0	26	1.180	7.670	2785	-2.000	71	-2.00	1.460	12	-100
43224	150	0.260	0.330	-5	0.270	0	6	-1.000	0.640	705	-2.000	3	-2.00	-0.500	7	-100
43226	450	0.940	3.530	-5	1.710	0	28	-1.000	3.250	1265	-2.000	22	-2.00	1.040	15	-100
43227	250	1.100	3.650	-5	2.710	0	17	-1.000	4.800	3405	-2.000	23	-2.00	1.820	9	-100
43228	200	5.750	17.800	-5	7.270	0	10	-1.000	61.700	3315	4.260	167	-2.00	2.450	26	-100
43229	350	3.700	11.600	-5	3.090	0	14	-1.000	12.800	2415	3.890	124	-2.00	1.470	21	-100
43230	200	3.080	15.500	-5	3.040	0	20	1.180	14.400	4545	3.960	175	-2.00	1.850	17	-100
43231	300	1.260	23.900	-5	7.650	0	106	1.560	21.800	6725	6.250	180	-2.00	1.880	20	-100
43232	450	1.410	29.100	-5	10.100	0	116	1.010	21.700	6640	-2.000	288	-2.00	2.620	21	113
43233	300	1.190	36.300	-5	6.510	0	64	1.080	25.400	5660	-2.000	223	-2.00	1.810	42	137
43234	250	2.060	25.500	-5	7.260	0	76	1.360	22.900	5350	2.510	261	-2.00	2.430	27	109
43235	250	0.640	2.600	-5	0.490	0	16	-1.000	1.950	800	-2.000	17	-2.00	-0.500	9	-100

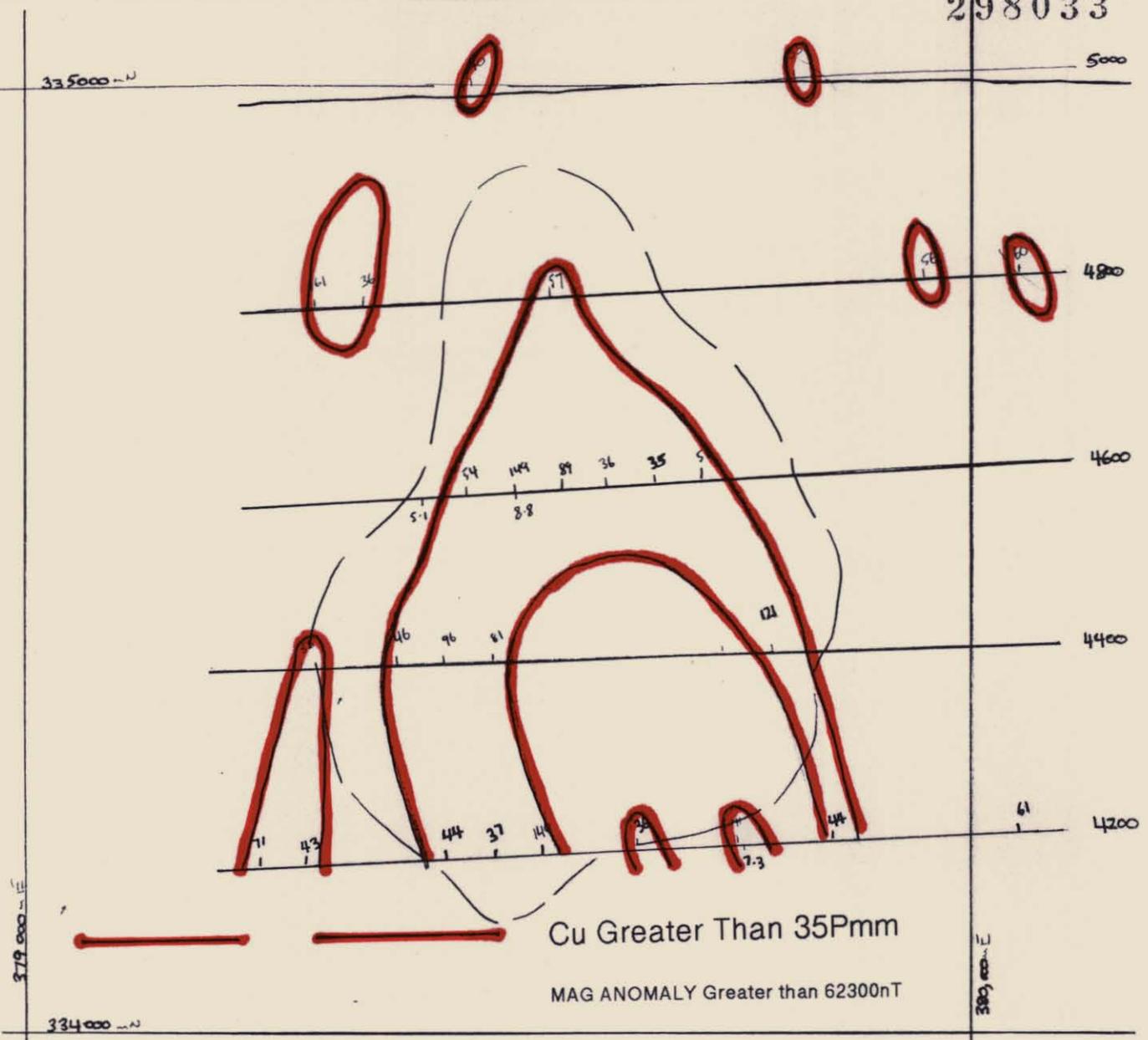
APPENDIX 1

SAMPLE	S A	SB N	SC N	SE N	SM N	SN	SR A	TA N	TH N	TI X	U N	V A	W N	YE N	ZN A	ZN N
43236	600	0.660	12.200	-5	6.080	0	24	1.350	14.900	3490	3.580	656	-2.00	2.830	15	-100
43237	100	1.550	17.900	-5	9.770	0	40	1.360	20.200	3570	3.940	85	4.31	3.590	50	114
43238	200	0.880	5.760	-5	3.920	0	15	-1.000	10.200	1810	2.630	30	-2.00	2.110	13	-100
43239	350	0.720	13.100	-5	7.200	0	33	1.660	15.500	4180	3.210	39	-2.00	3.460	39	-100
43240	250	0.960	6.430	-5	2.940	0	9	-1.000	7.450	1745	2.890	31	-2.00	2.060	9	-100
43241	200	0.380	7.790	-5	3.300	0	11	1.090	8.540	4165	3.110	38	-2.00	2.070	8	-100
43242	200	0.610	13.600	-5	5.960	0	38	1.010	16.100	3995	5.450	78	-2.00	3.270	16	-100
43243	100	1.870	11.700	-5	4.310	0	8	1.120	21.600	3440	3.760	100	-2.00	1.510	13	-100
43244	6400	3.180	14.500	-5	5.760	0	116	-1.000	12.500	3025	3.690	103	-2.00	2.390	388	405
43245	550	1.390	15.600	-5	23.800	0	56	1.470	21.700	2055	3.790	63	-2.00	2.560	336	370
43246	9450	1.850	15.900	-5	8.090	0	81	-1.000	18.100	2280	4.630	103	-2.00	1.870	201	214
43247	250	1.080	22.400	-5	1.410	0	13	-1.000	12.100	3905	3.870	135	-2.00	1.290	39	-100
43248	450	0.920	27.000	-5	3.390	0	25	-1.000	13.700	3750	3.000	167	-2.00	1.750	56	125
43249	550	0.860	28.400	-10	29.700	0	81	1.280	59.200	8680	8.460	311	-2.00	2.660	56	155
43251	950	0.920	4.990	-5	1.020	0	9	-1.000	3.560	1360	-2.000	33	-2.00	-0.500	525	-100
43252	250	0.630	2.350	-5	0.490	0	7	-1.000	1.650	1340	-2.000	41	-2.00	-0.500	93	-100
43253	150	1.640	19.000	-5	7.710	0	53	-1.000	27.200	3230	2.730	172	-2.00	1.690	65	-100
43254	250	4.530	10.700	-5	4.420	0	5	1.020	12.000	2845	2.780	64	-2.00	1.390	24	-100
43255	350	1.040	5.000	-5	2.250	0	11	-1.000	5.360	2170	-2.000	37	-2.00	0.870	17	-100
43256	350	3.450	19.500	-5	9.400	0	14	1.390	17.800	4945	2.880	153	-2.00	1.590	63	-100
43257	250	0.530	5.470	-5	2.890	0	11	-1.000	6.570	2990	2.590	37	-2.00	1.510	17	-100
43258	300	0.460	8.940	-5	4.800	0	17	1.380	11.900	3465	-2.000	53	2.48	2.410	12	-100
43259	250	1.010	3.970	-5	2.440	0	6	-1.000	7.010	1640	-2.000	21	-2.00	0.880	16	-100
43260	400	1.210	24.100	-5	5.110	0	39	-1.000	24.100	4955	5.630	233	-2.00	1.590	71	118
43261	1450	2.350	13.500	-5	8.660	0	21	-1.000	24.100	3445	6.700	104	-2.00	3.450	496	502
43262	350	1.340	9.890	-5	5.700	0	15	1.400	15.300	2790	5.690	27	-2.00	3.490	38	-100
43263	100	0.830	13.100	-5	6.640	0	10	1.400	15.600	2905	3.570	41	-2.00	3.500	17	-100
43264	1800	2.120	10.300	-5	3.840	0	174	1.580	9.140	3340	-2.000	44	4.14	2.510	14	-100
43265	300	1.190	8.890	-5	4.750	0	12	-1.000	10.700	3570	3.080	48	2.51	1.710	11	-100
43266	300	1.230	4.300	-5	2.480	0	24	-1.000	6.360	2560	2.640	19	-2.00	2.080	18	-100
43267	150	1.840	15.600	-5	9.060	0	60	1.190	13.400	4450	3.520	116	-2.00	1.870	18	-100
43268	150	0.820	2.990	-5	1.420	0	9	-1.000	2.850	1650	-2.000	20	-2.00	0.620	9	-100
43269	300	1.180	21.900	-5	9.650	0	36	-1.000	32.100	4400	6.890	176	-2.00	2.100	51	118
43270	450	1.400	22.300	-5	3.780	0	22	1.080	23.100	4765	7.860	175	-2.00	1.340	38	-100

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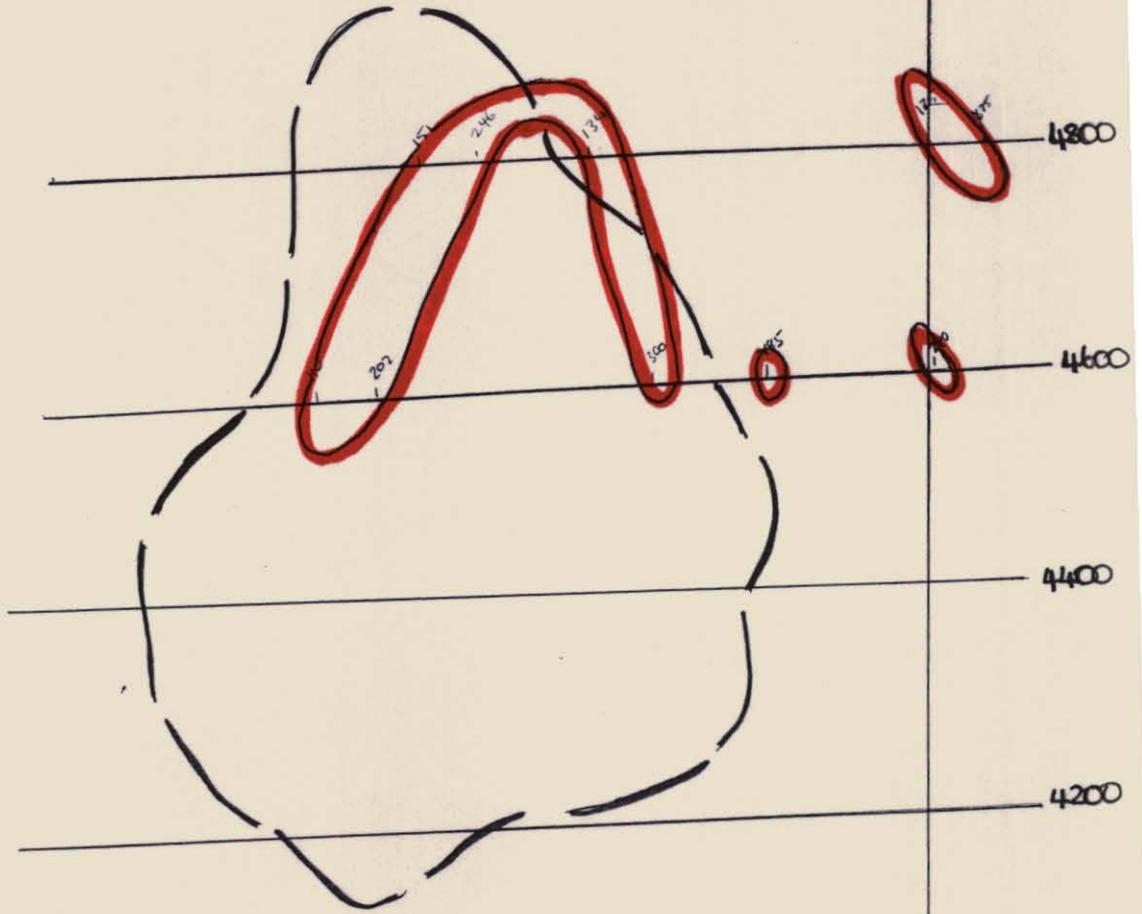
SAMPLE	S A	SB N	SC N	SE N	SM N	SN	SR A	TA N	TH N	TI X	U N	V A	W N	YB N	ZN A	ZN N
43271	250	1.980	25.600	-5	2.750	0	36	1.160	27.400	4630	8.480	179	-2.00	1.160	15	-100
43272	150	1.100	12.800	-5	1.340	0	11	1.300	31.700	3755	8.700	88	-2.00	2.060	21	-100
43273	200	0.560	12.400	-5	3.980	0	33	1.090	13.100	3305	3.360	69	2.69	2.700	7	-100
43274	400	0.820	5.420	-5	2.520	0	15	-1.000	6.280	2365	-2.000	27	-2.00	1.310	10	-100
43276	500	0.960	8.450	-5	2.930	0	17	-1.000	6.960	2840	-2.000	37	-2.00	1.830	13	-100
43277	300	1.040	3.790	-5	2.580	0	19	-1.000	6.840	2185	2.440	7	-2.00	2.080	14	-100
43278	300	1.360	3.320	-5	3.790	0	17	1.400	8.150	2355	2.240	7	-2.00	2.200	9	-100
43279	150	1.120	8.560	-5	3.500	0	12	-1.000	11.100	2250	3.780	45	-2.00	2.200	16	-100
43280	500	0.920	6.160	-5	2.070	0	23	-1.000	7.090	2140	-2.000	71	-2.00	1.510	78	102
43281	100	0.500	12.600	-5	6.770	0	13	-1.000	17.400	3405	5.270	66	-2.00	3.480	10	-100
43282	150	0.810	11.400	-5	6.820	0	13	1.250	17.500	3520	3.680	34	-2.00	3.640	14	-100
43283	200	0.870	3.510	-5	2.780	0	7	-1.000	7.380	1660	2.010	7	-2.00	1.960	8	-100
43284	150	0.630	9.010	-5	6.240	0	11	1.090	12.900	1630	4.610	4	-2.00	4.430	20	-100
43285	350	1.220	5.210	-5	3.730	0	7	-1.000	8.870	1745	2.190	4	-2.00	2.990	21	-100
43286	250	0.650	5.120	-5	4.010	0	9	1.540	9.650	1315	3.450	2	-2.00	3.710	12	-100
43287	200	1.580	13.000	-5	9.670	0	11	1.440	25.400	1890	4.390	11	-2.00	4.400	23	-100
43288	200	0.750	8.590	-5	7.400	0	11	1.430	14.900	2055	4.020	7	-2.00	5.770	13	-100
43289	200	1.060	9.690	-5	7.750	0	41	-1.000	16.400	2470	3.770	22	-2.00	3.570	23	-100
43290	150	1.000	10.200	-5	6.770	0	46	1.750	13.700	2360	4.190	7	-2.00	4.060	26	-100
43291	-50	0.780	13.300	-5	7.970	0	25	1.320	18.400	2020	4.060	32	-2.00	3.950	30	-100
43292	200	5.880	14.400	-5	6.980	0	16	1.370	32.100	3490	7.410	91	-2.00	2.920	50	-100
43293	150	2.480	8.600	-5	4.190	0	16	1.220	10.300	1670	4.140	35	-2.00	3.030	12	-100
43294	200	0.660	5.880	-5	2.880	0	25	-1.000	6.670	1525	-2.000	35	-2.00	2.010	11	-100
43295	250	1.140	5.440	-5	5.130	0	10	-1.000	10.400	2085	3.190	3	-2.00	3.650	23	-100
43296	250	1.040	7.750	-5	3.190	0	30	-1.000	7.770	1945	-2.000	29	-2.00	1.800	13	-100
43297	0	0.000	0.000	0	0.000	0	0	0.000	0.000	0	0.000	0	0.00	0.000	0	0

APPENDIX 2



335 000 N

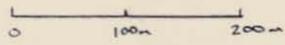
5000



374 000 E

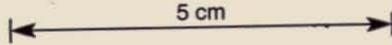
375 000 E

375 000 E



Pb Greater Than 100ppm

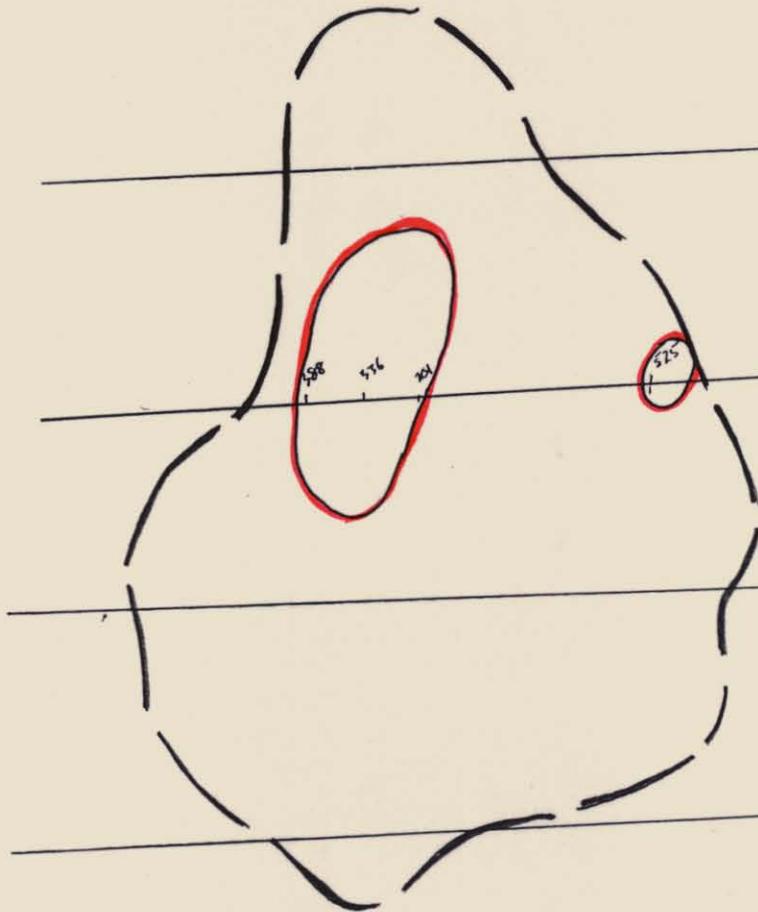
MAG ANOMALY Greater than 62300nT



298035

335 000

5000



4800

4600

4400

4200

379,000

324 000

380,000

Zn Greater than 100ppm

MAG ANOMALY Greater than 62300nT

0 100m 200m

5 cm

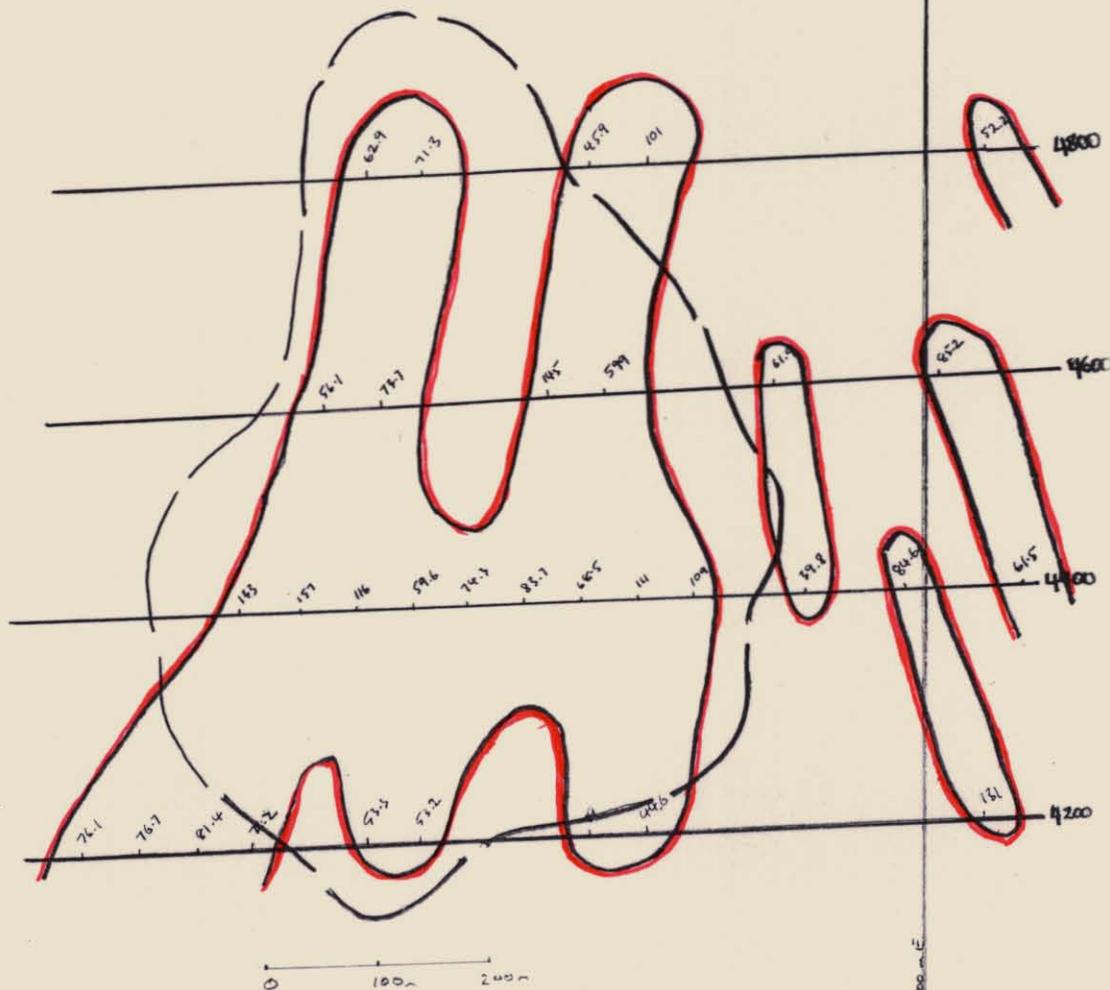
335,000 m N

513

519,000 m E

324,000 m N

359,000 m E



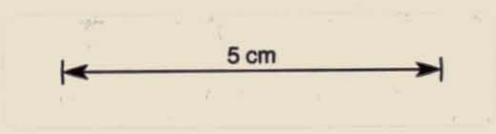
Cr Greater Than 40ppm

MAG ANOMALY Greater Than 62300nT

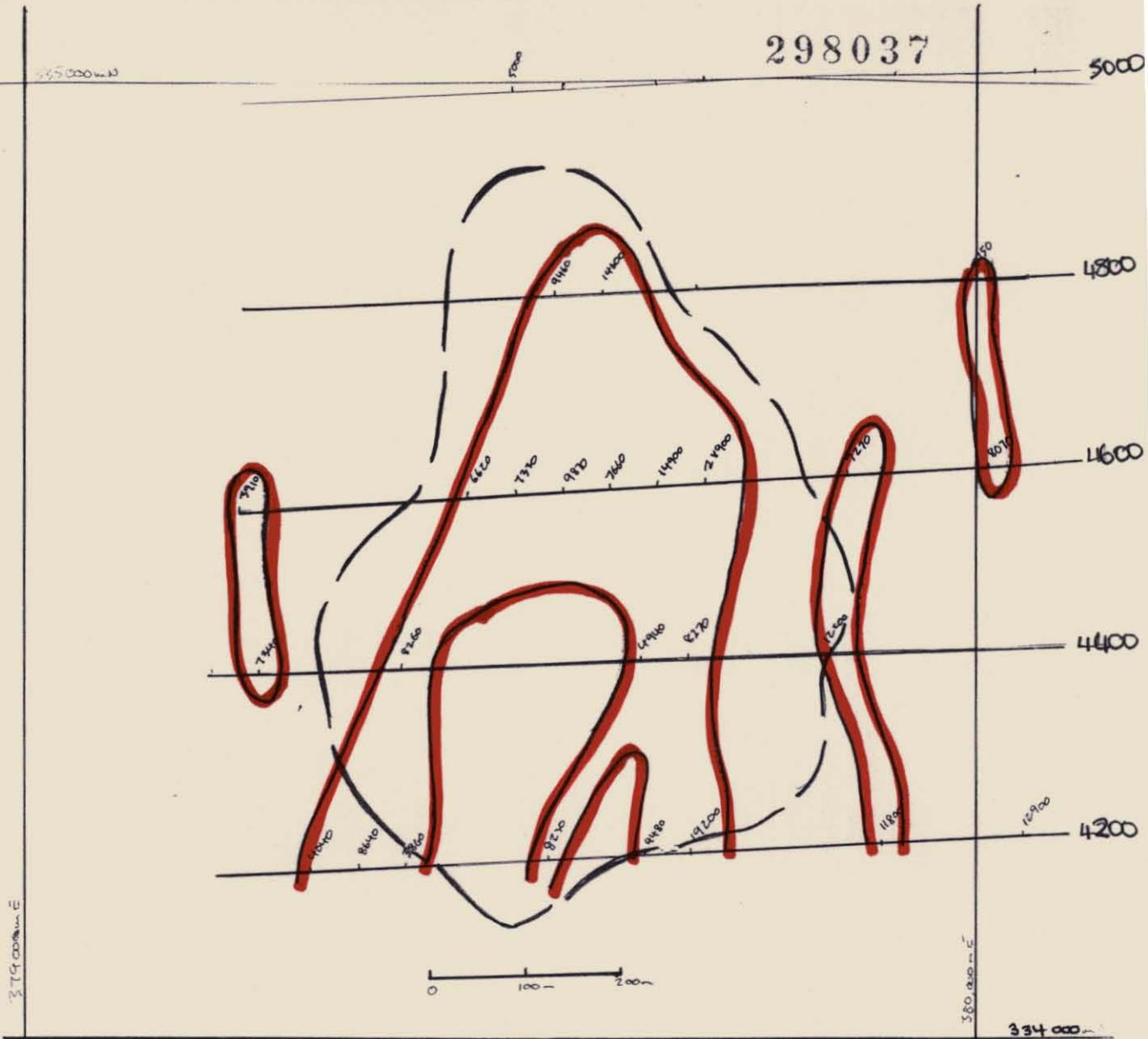
MIN D.L

MAX 3.91

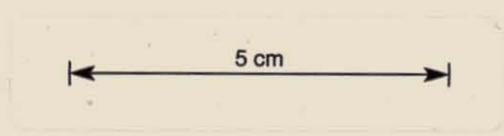
MEDIAN 25.7



298037



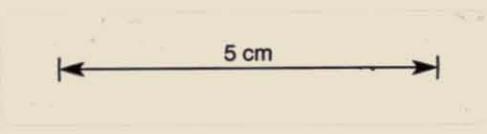
— Greater Than 62300nT MAG HIGH
 — Mg Greater Than 3700ppm
 MIN D.L
 MAX 28900
 MEDIAN 2060





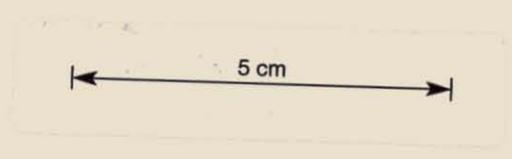
— Greater Than 62300nT MAG HIGH

— Fe Greater Than 2.8 %



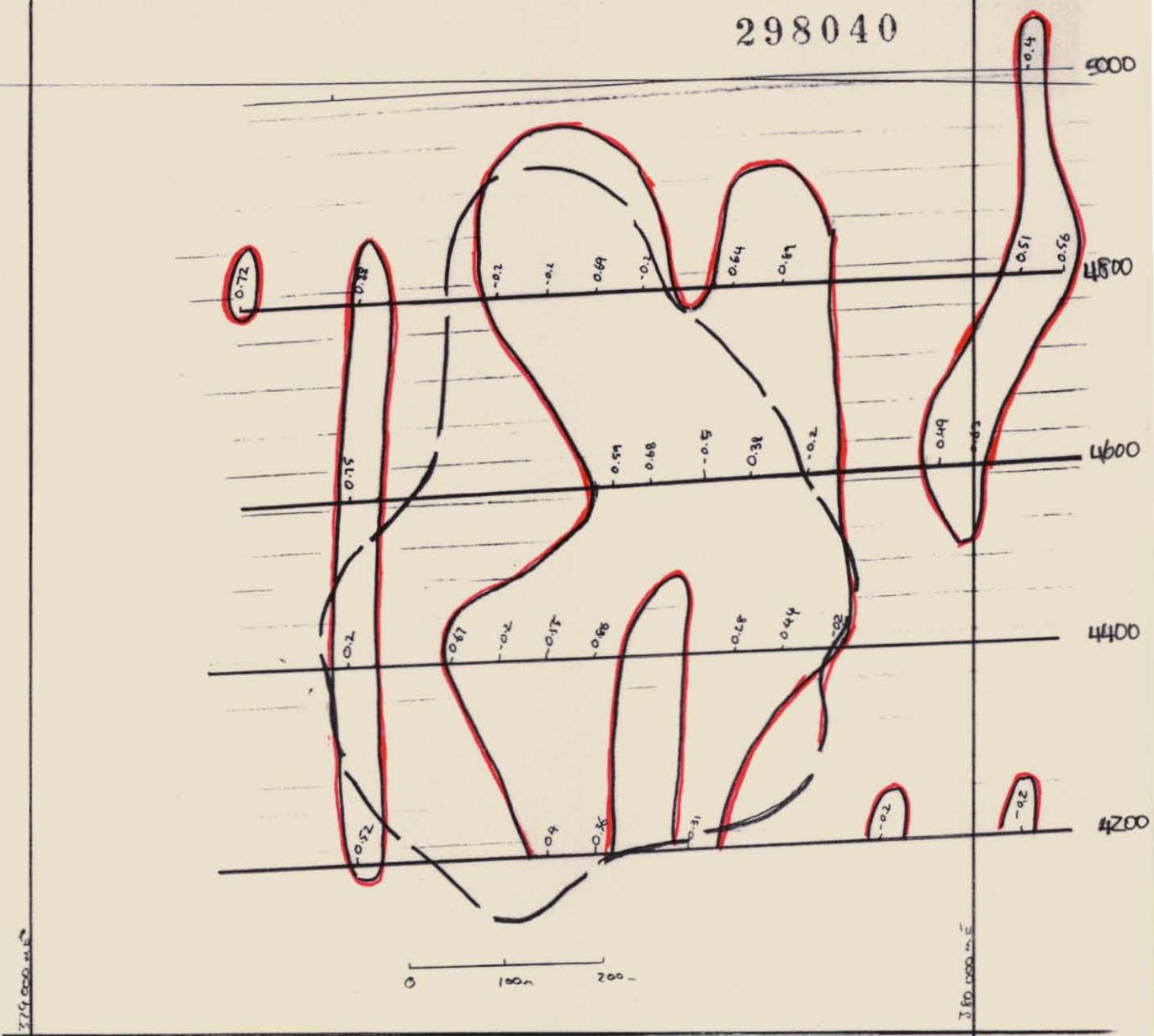


——— Greater Than 62300nT MAG HIGH
 ——— Rb Greater Than 70ppm
 MIN D.L.
 MAX 176
 MEDIAN 53.1



298040

335000 1 2



Greater Than 62300nT MAG HIGH

Less Than 0.9K %

MIN D.L.

MAX 3.91

MEDIAN 1.1

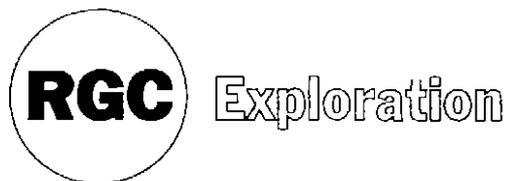
5 cm

APPENDIX 3

Appendix 3 Miners Ridge Rock Chips

SAMPLE	TEAST	TNORTH	AG A	AS A	AU G	CU A	PB A	ZN A
42323	379198.66	5334348.00	-1.00	-50.00	-0.008	6.00	23.00	87.00
42324	379840.55	5334104.63	1.00	-50.00	-0.008	35.00	31.00	40.00
42325	379843.48	5334089.19	1.00	-50.00	-0.008	3.00	6.00	6.00
42326	379846.26	5334079.33	-1.00	-50.00	-0.008	90.00	134.00	16.00
42327	379829.92	5334064.57	2.00	140.00	-0.008	109.00	78.00	33.00
42328	379973.02	5334891.37	1.00	-50.00	-0.008	12.00	32.00	72.00

APPENDIX 4



RGC EXPLORATION PTY LTD ACN 001 426 946
A Member of the RGC Group

Perth Head Office
89 Burswood Rd
Post Office Box 322
VICTORIA PARK WA 6100
Australia
Telephone (09) 442 8100
Facsimile (09) 442 8181

rgcexp.dot

TECHNICAL NOTE

To : Dave Gregory
CC. : RGC Exploration Information Centre Reference:
From : Chris Dauth
Date : 12 May, 1997
Subject : Miners Ridge

INTRODUCTION

The Miners Ridge Project, located within the Tasmania SK/55-SW 1:250,000 sheet, is currently being explored by RGC Exploration Pty Ltd. As part of the initial stages of exploration, an east-west grid of 6x200m line spacing has been established. To date, field mapping and acquisition of ground magnetic data have been conducted on the grid. This Technical Note presents data from the ground magnetic survey, and outlines results from computer modelling of this data.

The main aim of the ground magnetic survey and subsequent computer modelling is to resolve a "bullseye" magnetic anomaly identified within regional aeromagnetic data. It is proposed that this anomaly may represent a sub-surface intrusion acting as a focus for Cu and Au mineralisation. Computer modelling of the magnetic anomaly is intended to assist in defining the location, orientation, and target depth of a diamond drillhole to test this hypothesis.

The ground magnetic survey and computer modelling of magnetic data were conducted in-house by RGC Exploration personal.

SURVEY PARAMETERS

The ground magnetic survey was conducted during November 1996 by RGC Exploration personal operating from the Zeehan Exploration Office. One field, and one base station Geoinstruments G-856 proton precession magnetometer was used for data acquisition. Data were acquired at 5m station interval on all six east-west lines (4000N, 4200N, 4400N, 4600N, 4800N, and 5000N) for a total of 5.4 line kilometres. Data were also acquired on a north-south cross-line and road that connect adjacent grid lines. The proton precession sensor was placed in a purpose designed backpack slightly lower than shoulder level (approximately 1.4m above ground) during the survey.

The base station magnetometer sampling at 20 second intervals was situated at 9907mE, 4239mN for the duration of the survey. Base station temporal variations were generally less than 30nT over a 12 hour period.

PROCESSING PARAMETERS

Base station data were used to correct field data for temporal variations in the geomagnetic field.

A power line in the survey area transects each line at the following location:

Line 4000N, 9520mE
Line 4200N, 9670mE
Line 4400N, 9769mE
Line 4600N, 9835mE
Line 4800N, 9930mE
Line 5000N, 9990mE

The power line produced a negative polarity magnetic response up to 5000nT in amplitude and 50m in wavelength. As this anomaly is an order of magnitude greater than the geological response, it is a considerable noise source. It was considered that the most appropriate way of eliminating this noise source was to simply remove the effected data. The line data was then gridded to a 50x50m grid cell size using the minimum curvature algorithm provided in the SURFER and MODELVISION software packages.

MODELLING PARAMETERS

Data were modelled using the MODELVISION forward modelling package. The clearly three-dimensional geometrical nature of the magnetic source meant that conventional single body shapes offered by the MODELVISION package were not suitable to accurately model the magnetic anomaly. A total of eight geometrical slabs of defined thickness using the POLYGON model were stacked to produce a true three-dimensional model. Refinements to the depths and vertices of these polygons were made until an acceptable fit between the field data and a computed model response were achieved. A uniform magnetic susceptibility was selected for the POLYGON bodies (0.03 SI units) following trial and error based upon the amplitude of the magnetic response.

It must be kept in mind that modelling of potential field data such as magnetics is highly susceptible to the problems of equivalence. That is, a large number of different models can result in the same field response. Magnetic data also has problems associated with variable remanent magnetisation. In order to overcome these problems, it is important to use available geological information to constrain several of the variable parameters in modelling. Where this information is not available, then assumptions need to be made. Where these assumptions are incorrect, then errors in the modelled body geometry and magnetic properties will result. Assumptions made in modelling the ground magnetic data are as follows:

- Magnetic bodies are not remanently magnetised.
- All magnetic bodies have a uniform magnetic susceptibility.
- The geological units overlying and surrounding the modelled structure are non-magnetic.

For the purpose of modelling, it is required that the geomagnetic field parameters are computed. These have been computed using the AGRF90 model and software as follows:

Field Strength: 62384nT
Magnetic Inclination: -72.7°
Magnetic Declination: 12.3° from grid north

RESULTS

Contours and a colour image of the total magnetic intensity are presented in Plan 1. Results from the computer modelling are presented in Plan 2. Schematic sections from Line 4400N of the modelling results are presented in Figure 1 and Figure 2.

Once the response of the power lines is removed, the data has a dynamic range of 616 nT (62183-62799 nT). The region is dominated by a "bullseye" type magnetic anomaly of approximately 500m radius. The anomaly has a main positive high (62799 nT) located at 9725mE, 4400mN, and a negative dipole centred at 9700mE, 4000mN. In addition to the main high, the anomaly has two further local peaks in magnetic amplitude. These are located at 9475mE, 4400mN; and 9585mE, 4800mN. It is most likely that these local high amplitude centres represent regions where the magnetic source is closer to the surface.

Computer modelling results (Plan 2) show a number of polygonal slab bodies stacked to form a three-dimensional model. It is most likely that this modelled structure represents an intrusive igneous plug into the sediment (and volcanic?) rock pile. The modelled response of the three-dimensional structure is displayed on Plan 2 for each of the lines (4000N-5000N). A red line indicates the synthetic computed model response, and a black line the field data. The final accepted synthetic computed model response for each line has then been gridded and displayed as contours. Comparison of the FIELD TMI CONTOUR PLAN and the MODELLED TMI CONTOUR PLAN on Plan 2 shows an extremely good correlation between field data and computed model data. It is likely that the model will only be improved by either higher resolution field data or more geological input.

The magnetic susceptibility of the modelled body was set at 0.03 SI units. Assuming the magnetic response is purely due to magnetite, and that the magnetite is of average magnetic susceptibility, this would relate to a magnetite content by volume of 0.5%. The magnetic susceptibility is within the range that would be expected of an andesitic intrusive or a highly magnetic granite.

Each of the local high amplitude anomalies within the main anomalous zone have been modelled as having the magnetic source closer to the surface. These are interpreted as local variations in the geometry of the main magnetic body. It is quite possible that these local elevations in the surface level of the magnetic body could be related and causative of folding in the overlying sedimentary (volcanic?) pile. This is yet to be proven in the field. The magnetic body as a whole would result in a regional anticlinal structure. The depth to the top of the modelled body is as shallow as 40m below ground level at 9700mE, 4400mN; and 9460mE, 4400mN on local topographic highs. The modelled lateral extent of these highs are displayed in the PLAN VIEW OF MODELLED GEOMETRIES in Plan 2. The E-W width of the bodies at this depth are estimated at 100m centred at 9700mE, 4400mN, and 70m centred at 9460mE, 4400mN. An additional elevated surface of the magnetic source has been modelled over the local high amplitude response centred at 9585mE, 4800mN. This local high is modelled at a depth of 60m below the surface. The centre of this body is located slightly to the south of line 4800N at 9580mE. Closer line spaced data is required to better resolve the surface topographical nature of the magnetic source.

The modelling results suggest a N-S elongation of the magnetic source and its local topographical highs. It is quite possible that this elongation is a regional structural orientation. This is yet to be established.

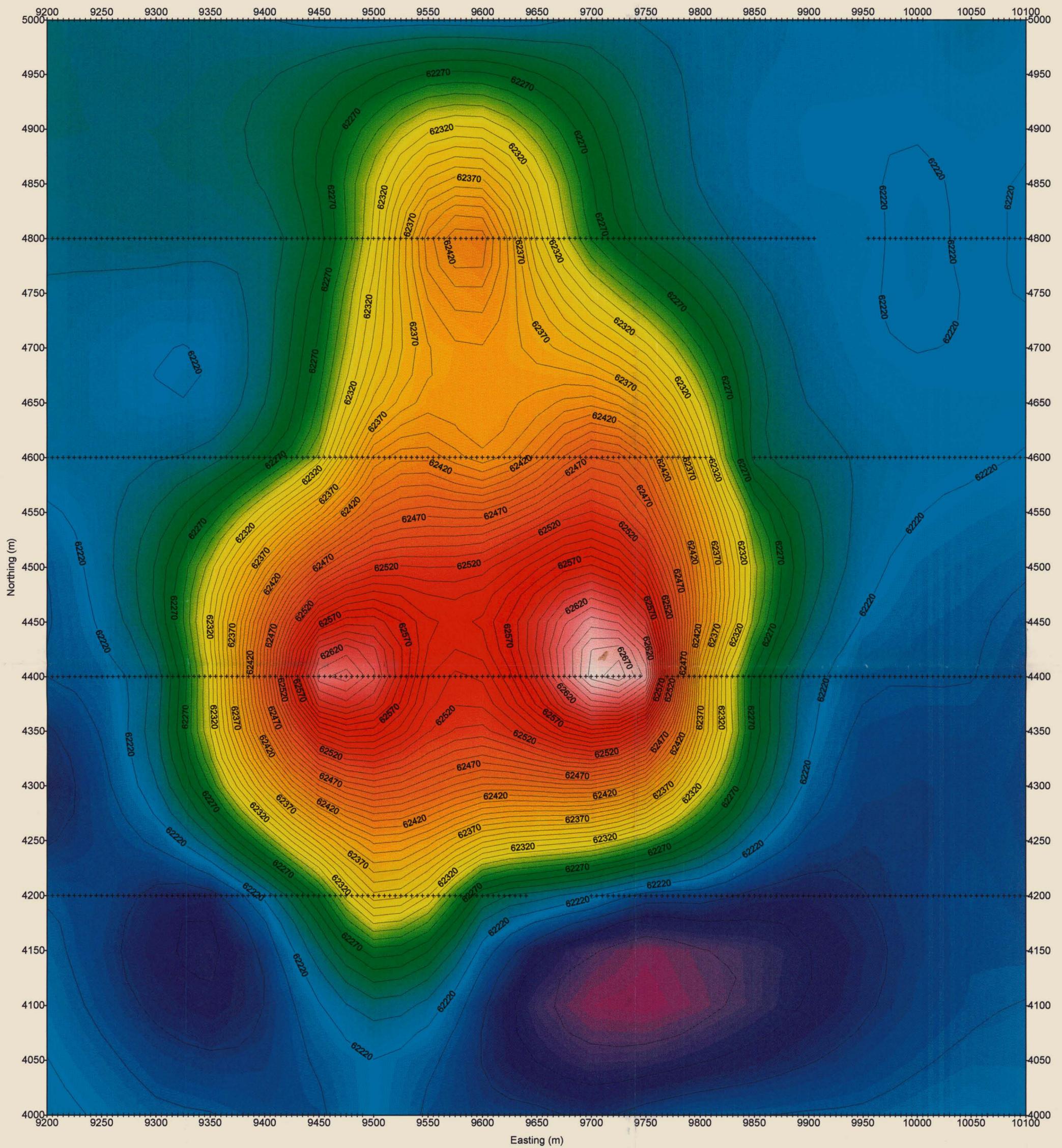
The geological nature of the modelled structure could be explained in a number of ways. Two possible scenarios considered as highly probable are displayed in schematics Figure 1 and Figure 2. Figure 1 represents a uniform intrusive plug intruding and folding the overlying stratigraphy. The lack of a broad regional anomaly suggests that the tail of the intrusive plug would have to be either, narrower

than the surface of the plug; or become less magnetic at depth. Figure 2 represents a large poorly-moderately magnetic intrusive mass with a magnetic carapace near the surface. It would be the magnetic carapace (possibly an alteration product) that is causing the magnetic anomaly.

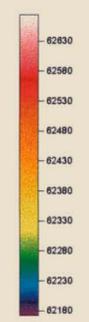
CONCLUSIONS AND RECOMMENDATIONS

It is not possible to confidently propose the exact geological nature of the source of the magnetic anomaly (andesite/granite/plug/batholith), however it is possible to determine within acceptable error bounds some geometrical parameters (such as depth and surface location) of a body that would cause the anomaly. The most suitable site to drill a hole to test the magnetic anomaly would be at 9700mE, 4400mN. A vertical hole of depth 80m should intersect the magnetic source. Such a hole would have a target intersection depth of 40m. This could be even shallower (the unit may even outcrop) once rounding of the geometrical shapes to represent geological bodies, and modelling errors are taken into account.

Magnetic susceptibility data should be collected on any rock or drill samples taken from the region to assist with refinement of the modelling results. If initial drilling results are encouraging, then infill 100m lines should be established and surveyed with ground magnetics to better define the geometrical nature of the magnetic body.



nano-Tesla



Acquisition Parameters

Magnetometer: Proton Precession Geoinstruments 856
 Sensor Height: approx. 1.4 m
 Line Spacing: 200m E-W
 Sample Interval: 5m
 Base Stn: 9907mE, 4239 mN



97-4016

ANNUAL REPORT - LYNCHFORD
 EL2/94 - RGC EXPLORATION
 K DENWER.D GREGORY

298048



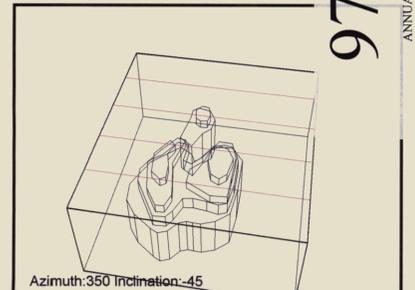
RGC Exploration Pty Ltd	
<i>Tasmania SK/55-SW 1:250,000</i>	
Plan 1 MINERS RIDGE PROJECT	
Contours and Image of TOTAL MAGNETIC INTENSITY	
<small>Drawn by: C Dauth</small>	<small>Date: 20 Nov 1996</small>

Modelling Parameters

Software: MODELVISION
Magnetic Susceptibility: 0.03 SI Units
Field Strength: 62380nT
Field Inclination: -72.7 degrees
Field Declination: 12.3 degrees
Demagnetisation: Computed
Remanence: None

5 cm

Perspective View of Model

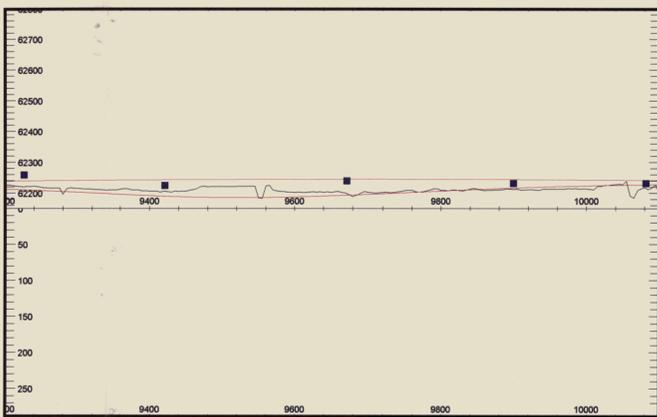


Azimuth:350 Inclination:-45

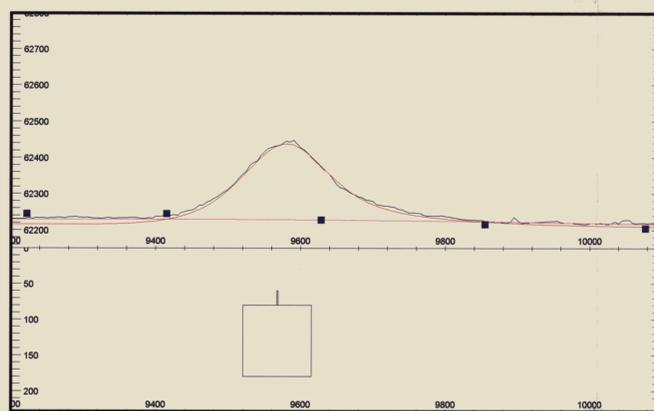
298049

97-4016

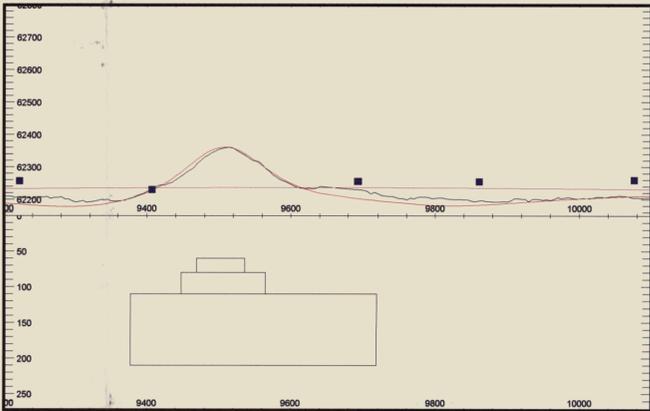
ANNUAL REPORT - LYNCHFORD
EL 2/94 - RGC EXPLORATION
K DENWELD GREGORY



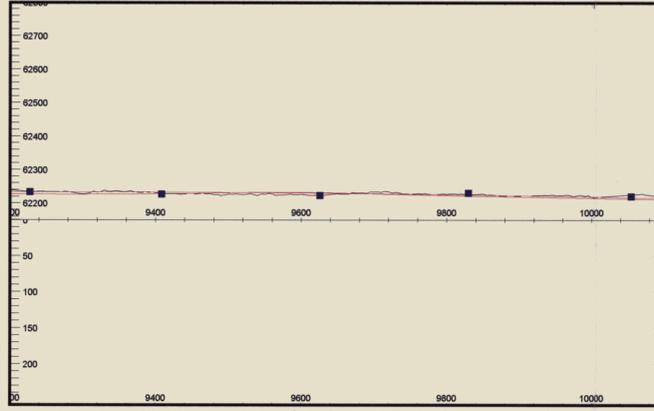
Line 4000N Modelled Section



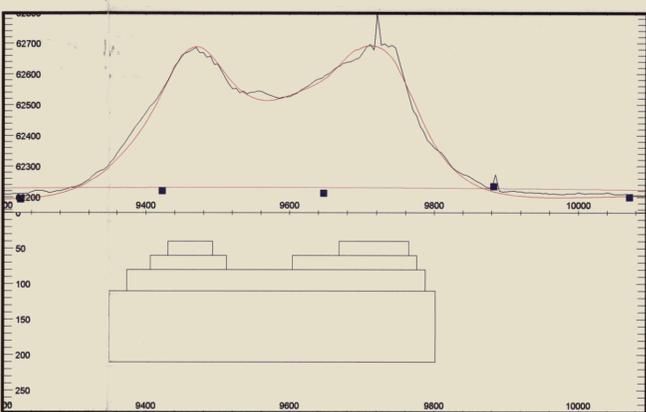
Line 4800N Modelled Section



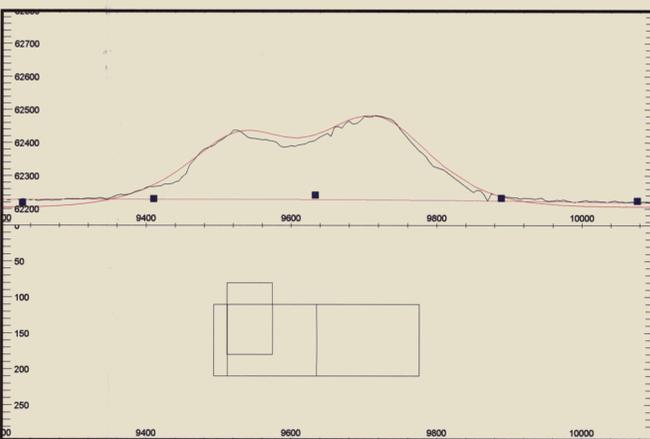
Line 4200N Modelled Section



Line 5000N Modelled Section

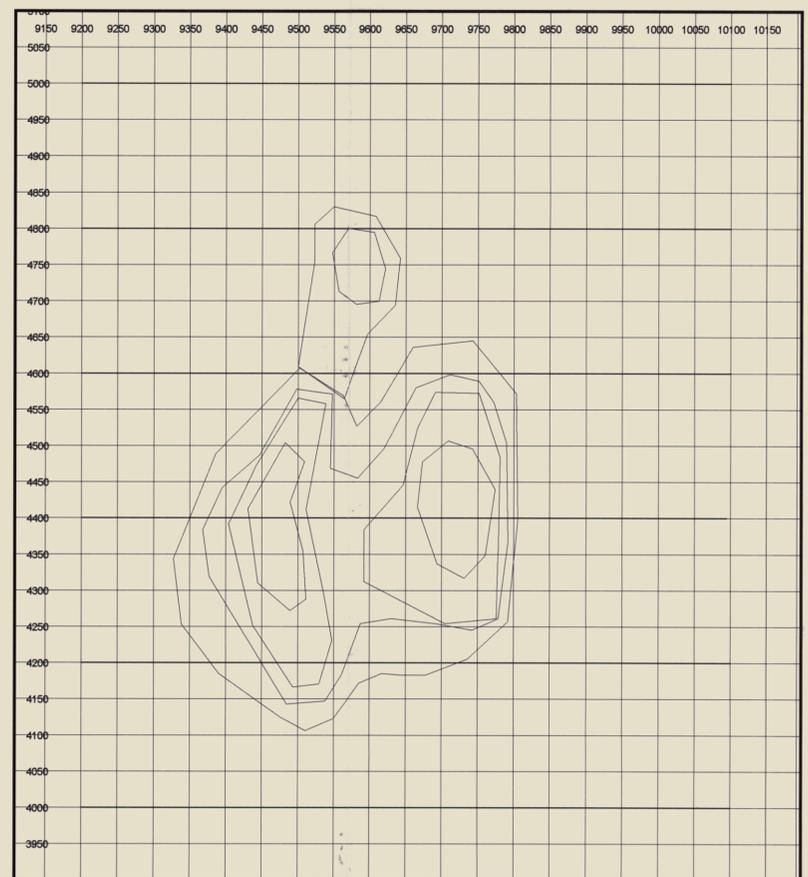


Line 4400N Modelled Section

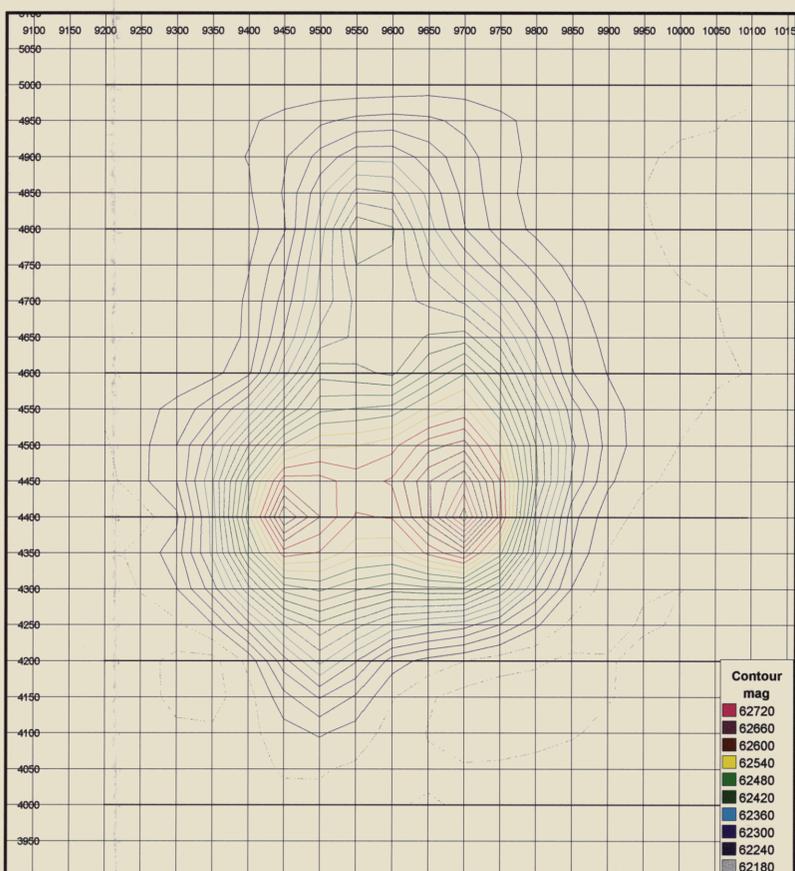


Line 4600N Modelled Section

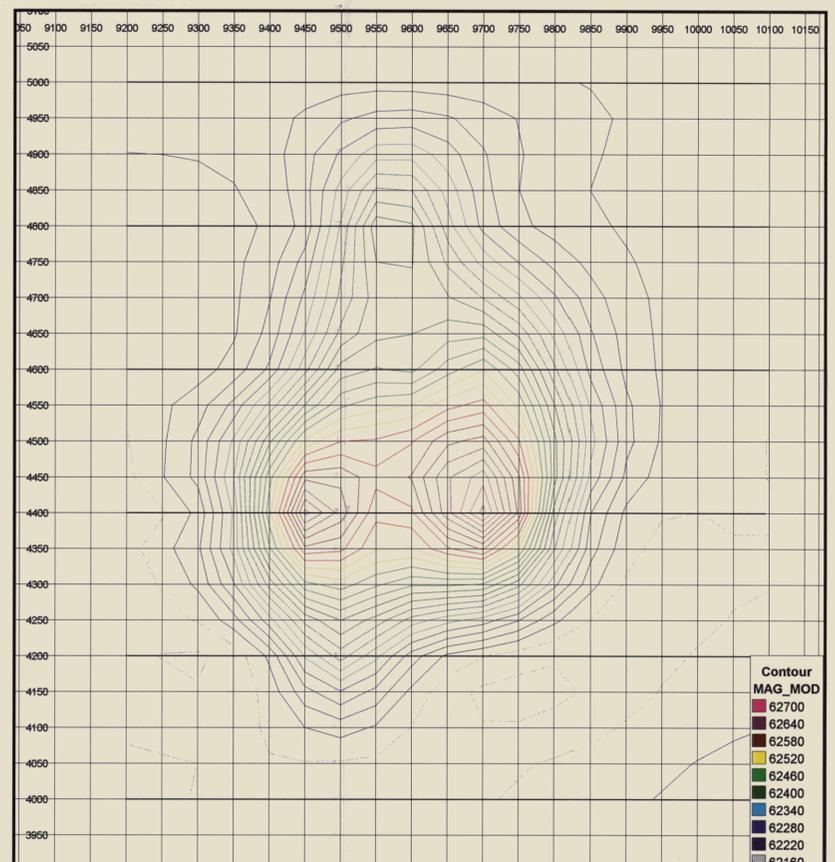
Plan View of Modelled Body Geometries



Field TMI Contour Plan (10nT)



Modelled TMI Contour Plan (10nT)



APPENDIX 5

RGC EXPLORATION PTY LTD

DRILL HOLE No LF002

SHEET 1 OF 19

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

PROJECT :	Lynchford
PROSPECT :	Miners Ridge
DATE :	21.1.96
LOGGED BY :	D.G.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG						ALTERATION	GEOLOGY NOTES	SUMMARY			
				1	4	1	4	16	32			SIL.	SER.	PT.	ROCK
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

3-24m Yellowish-orange, orange, light orange-pink clay. Minor very thin bedded weathered silts.

Minor silts

Minor silts.

BEA 31°

CLAY
(CLY)

REMARKS

298051

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

PROJECT : Lynech Pass

PROSPECT : Mimers Ridge

DATE : 21.1.96

LOGGED BY : D.G.

HOLE DEPTH m	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
20								
21								
22								
23								
24								
25						<p><u>24-30.1</u> light grey - off grey, massive, graded, volcanic lithic & rich volcaniclastic sst. Minor flow units with volcanic & shale bx units at base.</p> <p>bx - 15% white dacite clasts 1mm - 4cm - 5% white rhyolite clasts 1-2cm - 5% black shale clasts 0.5-4cm</p> <p>Matrix - 40% dacitic lithics 60% mud matrix</p> <p>Minor syngenetic pyrite in matrix.</p>		
26								
27								
28								
29								
30								
31						<p><u>30.1-54.3</u> light grey - mod grey, wk graded, mod bedded; lithic, volcaniclastic sst + interbedded black shales + grey silts.</p> <p>Minor syngenetic disseminated pyrite in shales.</p>		
32								
33								
34								
35								
36								
37								
38								
39								
40								

REMARKS

298052

RGC EXPLORATION PTY LTD

DRILL HOLE No LFOO2

SHEET 3 OF 19

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

PROJECT :	hynchford
PROSPECT :	Miners Ridge
DATE :	21.1.97
LOGGED BY :	D.C.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54						Contact becomes silicified 54.3 broken core @ contact		
55						54.3-55.82 Cream, monomict rhyolite bx. Large angular rhyolite (frag) blocks, 5mm-50mm in a black mud matrix. Minor disseminated pyrite + sericite along joint surfaces. Both contacts broken core. Hydroxylite bx? May be intrusive on both sides of contact silicified pebbles?	Rhyolite Breccia (VRLB)	
56								
57								
58								
59						55.82 - 60.55 light grey - dk grey, very thinly bedded silts + black shales. Minor disseminated syngenetic pyrite	Silt/Shale (SEDS)	
60								

REMARKS

298053

RGC EXPLORATION PTY LTD

DRILL HOLE No LF002

SHEET 4 OF 19

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

PROJECT :	<u>Lyonsford</u>
PROSPECT :	<u>Miners Ridge</u>
DATE :	<u>21.1.97</u>
LOGGED BY :	<u>D.G.</u>

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION				GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	Chl.		ROCK	ALTERATION
61									contact (CA 20° sharp		
62									<p><u>60.55-72.54</u> light grey - dk grey, med - thickly bedded (felsic - shale lithic) volcanoclastic sst + interbedded very thinly bedded silts + minor shale.</p> <p>Minor thin carbonate veining.</p> <p>Minor disseminated pyrite assoc with shale bands.</p>		
63											
64											
65											
66											
67											
68											
69											
70											
71											
72											
73									Unobscure contact - fusing? uncal. (?)		
74									<p><u>72.54-96.3</u> greyish green, monomict plagioclase rich dacite bx in a grey to siliceous (mud?) matrix.</p> <p>30-40% dacite clasts 5mm - 40cm. Moderately kalspar phytic.</p> <p>Green sericite alted kalspar plenas, and smaller curv. planar clasts mod. chlorite alted.</p> <p>Interp: bx appears to be both peperitic + hyaloclastic. More curv. planar chlorite clasts in matrix often occur near large less altered blocks with ch.</p>		
75											
76											
77											
78											
79											
80											
REMARKS											
298054 9.?											
164.5											

Volc sst, silt shales (SEPS)

(VDFB)

RGC EXPLORATION PTY LTD

DRILL HOLE No LF002

SHEET 5 OF A

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

PROJECT :	lyndhurst
PROSPECT :	Miners Ridge
DATE :	22.1.97
LOGGED BY :	D.C.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
81						May represent extrusive lava tongues.		
82						Minor Qtz - Carb. veining		
83								
84								
85								
86								
87								
88								
89								
90								
91								
92								
93								
94								
95								
96						Gradational Contact.		
97						96.3 - 104.28 Greyish green, palyminct br in a grey (msl) + xtst rich matrix.		
98						Clasts - 30% green sericitic feldspar phyric dacite clasts (0.5cm - 10cm)		
99						- 2% light grey feld 74% phyric andesite clasts		
100								

REMARKS

298055

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

PROJECT :	Lyndhurst
PROSPECT :	Miners Ridge
DATE :	22.1.97
LOGGED BY :	D.C.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY	
					SIL	SER.	PY.	OL.	CH.		ROCK	ALTERATION
101										Interp: Some rambling of clasts, polymict nature, Coarser grained xtal matrix suggest resedimentation of primary bx but still close to source of original brecciation. Resedimented hyaloclastic breccia.		
102												
103												
104										104m - minor blebs pyrite in shale matrix. Sharp contact CCA 45°		
105										104.28-105.03 Very thinly bedded sericitic silts + black shales. Large qtz vns with pyrite blebs + minor pyrrhotite. Sharp planar contact CCA 42°	Silt/Shale	(SEAS)
106										105.03 - 106.59 Greyish green polymict bx with feldspar xtal rich sst matrix. Clasts: 10% green sericitic feld. phytic dacite clasts (0.5-4cm) 1% black shale clasts (2-4cm) Matrix 80% - feldspar xtal rich + dacite lithic rich.		
107										Interp - Same as other bx just more reworked. Sharp planar contact		
108										106.59 - 107.35 Grey fg, thinly bedded, lithic-rich, volcanoclastic sst. mod small carbonate vening. Sharp planar CCA	Volc sst	(VDFM)
109										107.35 - 109.45 dark greyish green lithic rich feldspar xtal volcanoclastic sst. 15% lithics 17% grey sst clasts 2% black rockbone clasts 11% dacite clasts 1% pyrite clasts Some large planar, qtz - Carb, (qtz - Mn(Carb) (Kutnahorite) veins with minor pyrite blebs. Interp - a more reworked distal facies carrying a variety of clasts Sharp planar contact 21°	Volc. Lithic sst	(VDFM)
110												
111												
112												
113												
114												
115												
116												
117												
118												
119										118.80 minor thin bedded pyrrhotite in finer shale bands		
120												

REMARKS

298056

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

PROJECT :	Wynuch Ford
PROSPECT :	Miners Ridge
DATE :	23.1.97
LOGGED BY :	D.C.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	Chl.	Pgh	SPH		ROCK	ALTERATION
121													
122			BCA 29								Qtz - Cb - ds. pgh. stringers.		
123											09.45-184.93 grayish green, very thickly bedded to massive lg - mg feldspathic volcaniclastic sandstones. Minor plauer - irregular qtz - cb veining.		
124													
125													
126			BCA 35										
127													
128											sphalerite veined		
129													
129													
130			BCA 32										
131													
132													
133			VCA 45										
134			VCA 18										
135											Qtz+Cb (3)		
136											1st - Zn+Cb vein cut by thick qtz+Cb vein. Then both veins are affected by a later qtz - Cb vein		
137													
138											Alot of micro fractures infilled with qtz + Cb.		
139													
140													
REMARKS												Volc sst (VDFM)	
298057													

RGC EXPLORATION PTY LTD

DRILL HOLE No LF002

SHEET 8 OF 19

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

PROJECT :	kyachfweh
PROSPECT :	Mwers Ridge
DATE :	3.2.97
LOGGED BY :	D.C.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PY.	CH.	PH.	Sph.		ROCK	ALTERATION
141													
142													
143													
144													
145													
146													
147													
148													
149													
150													
151													
152													
153													
154													
155													
156													
157													
158													
159													
160													

BCL 5

BCL 13

VCA 60

Abundant planar qtz-cb, qtz-cb-py veining (2cm)

irregular qtz vein.

Volc. sst
(VDFM)

REMARKS

298058

RGC EXPLORATION PTY LTD

DRILL HOLE No LF002

SHEET 9 OF 19

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

PROJECT :	Lynechford
PROSPECT :	Murray Ridge
DATE :	3.2.97
LOGGED BY :	D.G.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION					GEOLOGY NOTES	SUMMARY	
					SIL	SER	PH	Ch	Py		Sph	ROCK
161												
162			VCA 50							Pyh. (1) Qtz + Clb (2) Qtz-ch. Pyh. un (10cm)		
163												
164												
165			VCA 53									
166												
167			BCA 10									
168												
169												
170												
171			VCA 10									
172												
173			BCA 14									
174												
175												
176												
177			BCA 21									
178												
179												
180												

Volc sst
(VDEM)

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No LF002

SHEET 10 OF 19

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

PROJECT :	Lynch Road
PROSPECT :	Miners Ridge
DATE :	3.2.97
LOGGED BY :	D.G.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	Chl	Ep	Sph		ROCK	ALTERATION
		ADL 71000 Au Zn											
181													
182													
183													
184		0.58											
185													
186		0.016											
187													
188													
189													
190													
191													
192													
193													
194													
195													
196													
197													
198													
199													
200													

REMARKS 298060

Minor pyrobitic microveinlets

Disseminated + microvein pyrobitic Qtz - Cb vein at contact.
Microveinlets of pyrobitic + minor sphalerite appear to be ~~for~~ deformational, and kinks have precipitated over Qtz - Cb tension gashes.
Minor monomict siltstone breccia, tectonic?
Small local unconformity

Qtz + Cb in at contact

184.93 - 278.18 greyish green - black, gy - mg, very thick - thickly bedded, massive - graded volcanoclastic sst often grading into thinly bedded silts + black shales. Most of pyrth + sph. mineralization assoc. with shales. Minor veinings - Qtz - Cb.

Qtz - Cb - pyrth. in.

Volc sst, silb, shales (SEDS)

RGC EXPLORATION PTY LTD

DRILL HOLE No LF002

SHEET 11 OF 19

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

PROJECT :	hydraulic
PROSPECT :	Munars Bridge
DATE :	4.2.97
LOGGED BY :	D.C.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY		
					SIL.	SER.	PT.	Chl	Py	Spn	Cpy		ROCK	ALTERATION	
201		Ag Zn													
202															
203															
204															
205															
206															
207															
208															
209															
210															
211															
212															
213		1426													
214															
215															
216															
217															
218															
219															
220															

Hydraulic breccia veins

Disseminated + microcriniferous
pyrrhotite + sphalerite inclusions

Qtz - cb - cpy vein

Qtz un.

Volc sst, silt, shales
(SEDS)

REMARKS

298061

RGC EXPLORATION PTY LTD

DRILL HOLE No LE002

SHEET 12 OF 19

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

PROJECT :	Lyndford
PROSPECT :	Miners Ridge
DATE :	4.2.97
LOGGED BY :	D.G.

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
				SIL	SER	PH	Chl	Py	Spn		Gpy	ROCK	ALTERATION
221			1 2 3 4 5 6 7 8 9 10 11 12										
222													
223													
224													
225													
226													
227													
228													
229													
230													
231													
232													
233													
234													
235													
236													
237													
238													
239													
240													

Volc sst, silt, shales (SEDS)

REMARKS 298062

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

PROJECT :	hynchkeel
PROSPECT :	Miners Ridge
DATE :	5.2.97
LOGGED BY :	D.G.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION							GEOLOGY NOTES	SUMMARY					
					SIL.	SER.	HY.	Chl.	Pyrrh.	Sph.	CPy.		ROCK	ALTERATION				
241		Zn										241						
242		28 / 20										242						
243		28 / 20										243						
244		38 / 33										244						
245		39 / 17										245						
246		42 / 34										246						
247												247						
248												248						
249												249						
250												250						
251												251						
252												252						
253												253						
254	BLA 13	4367										254						
255		2456										255						
256												256						
257	LCA 28											257						
258												258						
259												259						
260												260						

cleavage developing

pyrrh rct vis, also pyrrh linact. along cleavage, pyrrh along fault planes, beds of pyrrh, + along bed. planes.

Appears to be folded.

253.7 - 254.2 dark greyish green, nonaerict sedimentary breccia, with angular - sub angular lg sst clasts in a matrix of sst which is partially replaced by carbonate.

Interp: possibly tectonic?

254.2 - 255 greyish green - black, polymict clast supported breccia, angular - subangular disorientated laminated shale + siltstone clasts.

Interp: Definitely tectonic possibly syndepositional faulting.

Volk. sst, silt, shales (SEDS)

REMARKS

298063

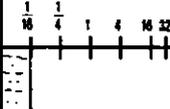
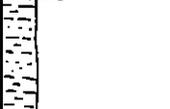
RGC EXPLORATION PTY LTD

DRILL HOLE No LE002

SHEET 1A OF 19

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

PROJECT :	Lyndhurst
PROSPECT :	Miners Ridge
DATE :	5.4.97
LOGGED BY :	D.G.

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
					SIL	SER	PY	CHL	Pyth	Sph		SO ₂	ROCK	ALTERATION
261		Zn 4758										255-255.64 abundant normal faulting in silt + shale.		
262		2054										255.64-255.9 poorly sorted polymict granular sst with K-feldspar + talc, shale clasts, silt clasts		
263														
264														
265												255.9-258.78 greyish green-black, matrix supported polymict breccia.		
266												20% clasts - subrounded - subangular		
267												15% K-feldspar plagioclase lava clasts, etc. matrix		
268												5% silt + shale clasts.		
269												80% Matrix - K-feldspar - silty		
270														
271														
272														
273														
274		1343												
275		3056										15% disseminated + bedded pyrite		
276												2% disseminated sph. in a coarse K-feldspar plagioclase lithic rich (mat. dacite lava clasts) volcanoclastic sst.		
277														
278														
279														
280														

Valk sst, silt, shale (SEDS)

REMARKS

298064

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

PROJECT :	Lynch Ford
PROSPECT :	Miners Ridge
DATE :	7.2.97
LOGGED BY :	D.G.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY			
					SIL.	SER.	PY.	Chl.	Pyh.	Sph.		Sp.	Carb.	ROCK	ALTERATION
281				16 16 32											
282				16 16 32											
283				16 16 32											
284				16 16 32											
285				16 16 32											
286				16 16 32											
287				16 16 32											
288				16 16 32											
289				16 16 32											
290				16 16 32											
291				16 16 32											
292				16 16 32											
293				16 16 32											
294				16 16 32											
295				16 16 32											
296				16 16 32											
297				16 16 32											
298				16 16 32											
299				16 16 32											
300				16 16 32											

278.18-284.33 Pale green-cream massive, clast supported polymict breccia. Minor interstitial mud.
 Clasts 98%: 96% subangular, Feld. phytic dacite lava clasts. Feld w/ly sericitic.
 2% mudstone clasts.
 Interstitial Matrix 2% - mud.
Gradational contact

284.33-302.65 Pale green - dk green massive polymict - monomict matrix supported volcanoclastic breccia.
 70% clasts: 35% cream, w/ly sericitic subangular, Feld. phytic dacite lava clasts.
 34% dk green, mod chloritic angular eusplanar - subangular Feld. phytic dacite lava clasts.
 1% subangular-subrounded mudstone clasts.
 30% Matrix - dark grey mixture of mud, chloritic lava splinters and Feld. xtals.

290.40 No more silt/shale.

294.20 - 295.65 dark green, chloritic, sericitic Feld. phytic dacite sill? Contacts are siliceous + brecciated

302.65 - 304.80 grey, Feld xtal rich, lithic rich (dacite, mudstone), weakly graded-massive, very thickly bedded volcanoclastic sst.

Poly. Volc. Breccia (V.B.)
 Dacite
 Poly. Volc. Breccia (V.B.)

REMARKS 298065

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

PROJECT	: Kynoch Corral
PROSPECT	: Rivers Ridge
DATE	: 10.2.97
LOGGED BY	: D.C.

HOLE DEPTH	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	BY	Py	Sph	CP		ROCK	ALTERATION
301											Interp: A new flow unit, basal clast supported breccia a debris flow - as flow continues on rounding of clasts ↑ matrix content giving a more matrix supported breccia, as flow continues it grades into a volcanoclastic sst.		
302													
303													
304													
305											304.80 - 306.42 light grey, graded monomict. Rel. phytic dacite breccia, grades into a volcanoclastic sst. Mass flow	Debate Bx	(VDFB)
306													
307											306.42 - 313.2 greenish grey, massive matrix supported, mostly monomict andesitic breccia.		
308											Clasts 40% - 35% subangular Rel. 7 hbl phytic andesite clasts.		
309											- 1% cream subrounded Rel. phytic dacite clasts		
310			VCA								- 1% black mudstone clasts.		
311											Matrix 60% - dark grey silt, Rel. xtals, andesite volcanic fragments.	Andesite Breccia	(VAHB)
312													
313													
314											313.2 - 318.85 light grey, thinly bedded silts + sst.		
315											Interp: a graded mass flow. Breccia a sedimentary hyaloclastite breccia still, proximal to source though.		
316													
317													
318											Qtz - cl. vein @ contact.		
319											silts		
320											Qtz - cl vein.		

REMARKS

298066

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

PROJECT : Lyach Brook
PROSPECT : Miners Ridge
DATE : 10.2.97
LOGGED BY : D.C.

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							ROCK	ALTERATION
321			2A 66			318.85-329 greyish green, massive chloritic, mostly micromict, matrix supported andesitic breccia. Clasts 60% - 57% green chloritic, subangular-subrounded, calc. silt. phytic andesite clasts. - 2% black mudstone clasts, decreasing down hole. - 1% cream subrounded calc phytic dacite clasts. Matrix 40% - feld, silt, andesite fragments. Cpx prh blebs in qtz v. Interp: residual hyaloclastite zone of glass picked up mud clasts.	Andesite Breccia	
322								
323								
324								
325								
326								
327								
328								
329								
330						329-329.13 light greyish green, w/ty graded lithic rich volcanoclastic sst with clasts of shale, dacite + what appears to be pumice, displaying a weak entaxitic texture.	Volc Sst	(SEDS)
331		0.014						
332		0.011				329.13-330.50 light greyish green, medium bedded, sst.		
333			BCA 67			330.50-339.70 Thinly bedded black shales + siltstones. Minor carbonate veining. Minor thickly bedded greyish green sst. Abundant pyrite blebs, veinlets + dissemin. associated with black shales.	Slt, Shales	(SEDS)
334								
335								
336								
337			BCA 78			339.70-339.90 Greyish green, lithic rich, bed. xtal rich weakly graded volcanoclastic sst. 20% green, chloritic, subangular. Calc phytic dacite clasts. Mass Flaw - residual hyaloclastite, diat. ?	Dacite Bx	
338								
339								
340								

REMARKS

298067

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

PROJECT :	Hyndland
PROSPECT :	Minors Ridge
DATE :	10.2.97
LOGGED BY :	D.G.

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS		STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY		
	Au	Zn			SIL.	SER.	PY.	Chl	Pyph	Sph		LPy	ROCK	ALTERATION
341			BCA 7L									<p>339.90-356.60 interbedded massive, red bedded, volcaniclastic tst with thinly bedded silt + shales. Breccia at bases consist of subangular Red. phytic dacite clasts + minor shale clasts. Minor thin qtz. Ct veining.</p>	Volc. sst. silt, shales (SEDS)	
342														
343														
344			BCA 70											
345														
346														
347														
348														
349			BCA 62											
350														
351														
352														
353														
354														
355														
356			BCA 58											
357														
358														
359														
360														
REMARKS														
298068														

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

PROJECT :	Lynch Road.
PROSPECT :	Miners Ridge
DATE :	10.2.97
LOGGED BY :	17.C

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION						GEOLOGY NOTES	SUMMARY	
					SIL.	SER.	PT.	Chl	Py	SP		CA	ROCK
361											<p>356.60-367 Argillite green, massive-grained, polymict, matrix supported breccia. Some of breccia consists of predominantly andesite clasts, grades upward into a matrix breccia with large mudstone clasts.</p> <p>Clasts 55%: 25% green chloritic - pale cream coloured feld 7% alk. phytic subangular andesitic clasts.</p> <p>10% Black, subangular mudstone clasts.</p> <p>Matrix 65%: feld. xtal + volcanic lithic fragments.</p> <p>Inter: base of breccia perhaps a local resedimented hydrothermalite. The upper half seems to have travelled further + may represent a mass flow deposit.</p> <p style="text-align: center;">EOL 367m.</p>	Poly. Volc. Breccia (V.B)	
362													
363													
364													
365													
366													
367													

REMARKS

298069

APPENDIX 6

LF002 Drillcore Assays

SAMPLE	HOLE	DEPTHF	DEPTHT	AU G	CU A	PB A	ZN A	AG A
255401	LF002	180	181	0.000	96	29	68	0
255402	LF002	181	182	0.000	83	29	148	0
255403	LF002	182	183	0.000	63	14	86	0
255404	LF002	183	184	0.580	92	31	174	2
255405	LF002	184	185	0.000	74	44	90	0
255406	LF002	185	186	0.026	94	229	750	2
255407	LF002	186	187	0.000	91	533	1809	0
255408	LF002	187	188	0.000	62	74	179	2
255409	LF002	204	205	0.000	56	27	117	0
255410	LF002	205	206	0.000	50	252	201	0
255411	LF002	206	207	0.000	42	146	401	0
255412	LF002	207	208	0.000	62	255	408	2
255413	LF002	208	209	0.000	43	63	300	2
255414	LF002	209	210	0.000	84	0	126	0
255415	LF002	210	211	0.000	55	0	376	0
255416	LF002	211	212	0.000	40	214	409	0
255417	LF002	212	213	0.000	24	531	1426	0
255418	LF002	213	214	0.000	73	105	301	2
255419	LF002	214	215	0.000	58	0	171	0
255420	LF002	215	216	0.000	29	26	180	0
255421	LF002	216	217	0.000	32	64	143	0
255422	LF002	217	218	0.000	92	41	189	2
255423	LF002	218	219	0.000	60	55	213	0
255424	LF002	219	220	0.000	70	54	177	2
255426	LF002	220	221	0.000	57	73	153	2

SAMPLE	HOLE	DEPTHF	DEPTHT	AU G	CU A	PB A	ZN A	AG A
255427	LF002	221	222	0.000	66	36	806	2
255428	LF002	222	223	0.000	68	31	140	2
255429	LF002	223	224	0.000	55	33	186	0
255430	LF002	224	225	0.000	45	22	83	2
255431	LF002	225	226	0.000	76	19	92	2
255432	LF002	226	227	0.000	41	76	317	0
255433	LF002	227	228	0.000	104	35	132	0
255434	LF002	228	229	0.000	37	0	108	0
255435	LF002	229	230	0.000	72	21	117	0
255436	LF002	240	241	0.000	59	25	84	0
255437	LF002	241	242	0.000	58	37	99	0
255438	LF002	242	243	0.000	85	163	743	2
255439	LF002	243	244	0.000	91	190	428	2
255440	LF002	244	245	0.000	98	198	168	2
255441	LF002	245	246	0.000	117	84	212	2
255442	LF002	246	247	0.000	88	86	259	3
255443	LF002	247	248	0.000	77	77	355	2
255444	LF002	248	249	0.000	72	34	212	2
255445	LF002	249	250	0.000	58	430	210	0
255446	LF002	250	251	0.000	76	10	158	0
255447	LF002	251	252	0.000	60	17	178	0
255448	LF002	252	253	0.000	62	41	130	0
255449	LF002	253	254	0.000	86	116	347	0
255451	LF002	254	255	0.000	76	184	4367	0
255452	LF002	255	256	0.000	94	182	2456	0
255453	LF002	256	257	0.000	84	83	197	0
255454	LF002	257	258	0.000	86	102	33	0

SAMPLE	HOLE	DEPTHF	DEPTHT	AU G	CU A	PB A	ZN A	AG A
255455	LF002	258	259	0.000	47	129	459	0
255456	LF002	259	260	0.000	46	179	865	0
255457	LF002	260	261	0.000	167	1092	4758	2
255458	LF002	261	262	0.000	43	698	2054	2
255459	LF002	262	263	0.000	62	531	863	0
255460	LF002	263	264	0.000	50	5	193	0
255461	LF002	264	265	0.000	65	0	100	0
255462	LF002	265	266	0.000	75	34	149	0
255463	LF002	266	267	0.000	66	23	186	0
255464	LF002	267	268	0.000	84	37	144	0
255465	LF002	268	269	0.000	71	99	286	2
255466	LF002	269	270	0.000	109	0	100	0
255467	LF002	270	271	0.000	101	116	305	2
255468	LF002	271	272	0.000	97	189	498	0
255469	LF002	272	273	0.000	71	107	586	0
255470	LF002	273	274	0.000	126	370	1343	0
255471	LF002	274	275	0.000	111	450	3056	2
255472	LF002	275	276	0.000	107	108	322	2
255473	LF002	276	277	0.000	86	66	301	0
255474	LF002	277	278	0.000	98	101	315	2
255476	LF002	307	308	0.000	38	13	95	0
255477	LF002	308	309	0.000	67	15	79	0
255478	LF002	309	310	0.000	52	0	90	0
255479	LF002	329	330	0.000	17	0	106	0
255480	LF002	330	331	0.000	48	121	308	0
255481	LF002	331	332	0.014	106	76	210	0
255482	LF002	332	333	0.011	164	161	662	2

SAMPLE	HOLE	DEPTHF	DEPTHT	AU G	CU A	PB A	ZN A	AG A
255483	LF002	333	334	0.000	50	54	130	2
255484	LF002	334	335	0.000	38	0	110	2
255485	LF002	335	336	0.000	53	47	180	2
255486	LF002	336	337	0.000	61	39	104	2
255487	LF002	337	338	0.000	36	13	69	0
255488	LF002	338	339	0.000	56	0	77	2
255489	LF002	339	340	0.000	176	92	262	2
255490	LF002	340	341	0.000	68	24	128	0
255491	LF002	341	342	0.000	65	34	95	2
255492	LF002	342	343	0.000	55	111	79	2
255493	LF002	343	344	0.000	64	33	111	0
255494	LF002	344	345	0.000	43	43	92	0
255495	LF002	345	346	0.000	94	47	92	0
255496	LF002	346	347	0.000	114	25	88	0
255497	LF002	347	348	0.000	110	59	210	2
255498	LF002	348	349	0.000	82	45	96	2
255499	LF002	349	350	0.000	81	17	72	2
255501	LF002	350	351	0.000	55	51	60	0
255502	LF002	351	352	0.000	43	63	174	2
255503	LF002	352	353	0.000	40	41	61	0
255504	LF002	353	354	0.000	58	14	67	2
255505	LF002	354	355	0.000	71	27	81	0
255506	LF002	355	356	0.000	49	90	325	2
255507	LF002	356	357	0.000	61	31	68	0
255508	LF002	357	358	0.000	51	56	121	0
255509	LF002	358	359	0.000	49	22	68	2
255510	LF002	359	360	0.000	48	0	73	0

Appendix 6.xls

SAMPLE	HOLE	DEPTHF	DEPTHT	AU G	CU A	PB A	ZN A	AG A
255511	LF002	360	361	0.000	55	85	88	0
255512	LF002	361	362	0.000	46	27	95	2
255513	LF002	362	363	0.000	46	110	212	0
255514	LF002	363	364	0.000	50	33	78	0
255515	LF002	364	365	0.000	69	27	118	2

NAA Analyses from drill hole LF002

Sample No.	Depth (m)	Element Method	As	Sb	Ba	Br	Ce	Cs	Cr	Co	Eu	Hf
		Detection	GN801									
		Units	1	0.2	100	2	2	1.0	5.0	1.0	0.5	0.5
			ppm									
W255476	307 - 308		17.8	2.7	1410	-2	157	-1.0	82.6	22.7	1.5	4.0
W255477	308 - 309		5.7	2.4	1740	-2	154	1.8	66.7	23.0	1.5	3.5
W255478	309 - 310		6.5	2.7	1790	-2	153	2.6	72.9	29.4	1.5	3.6

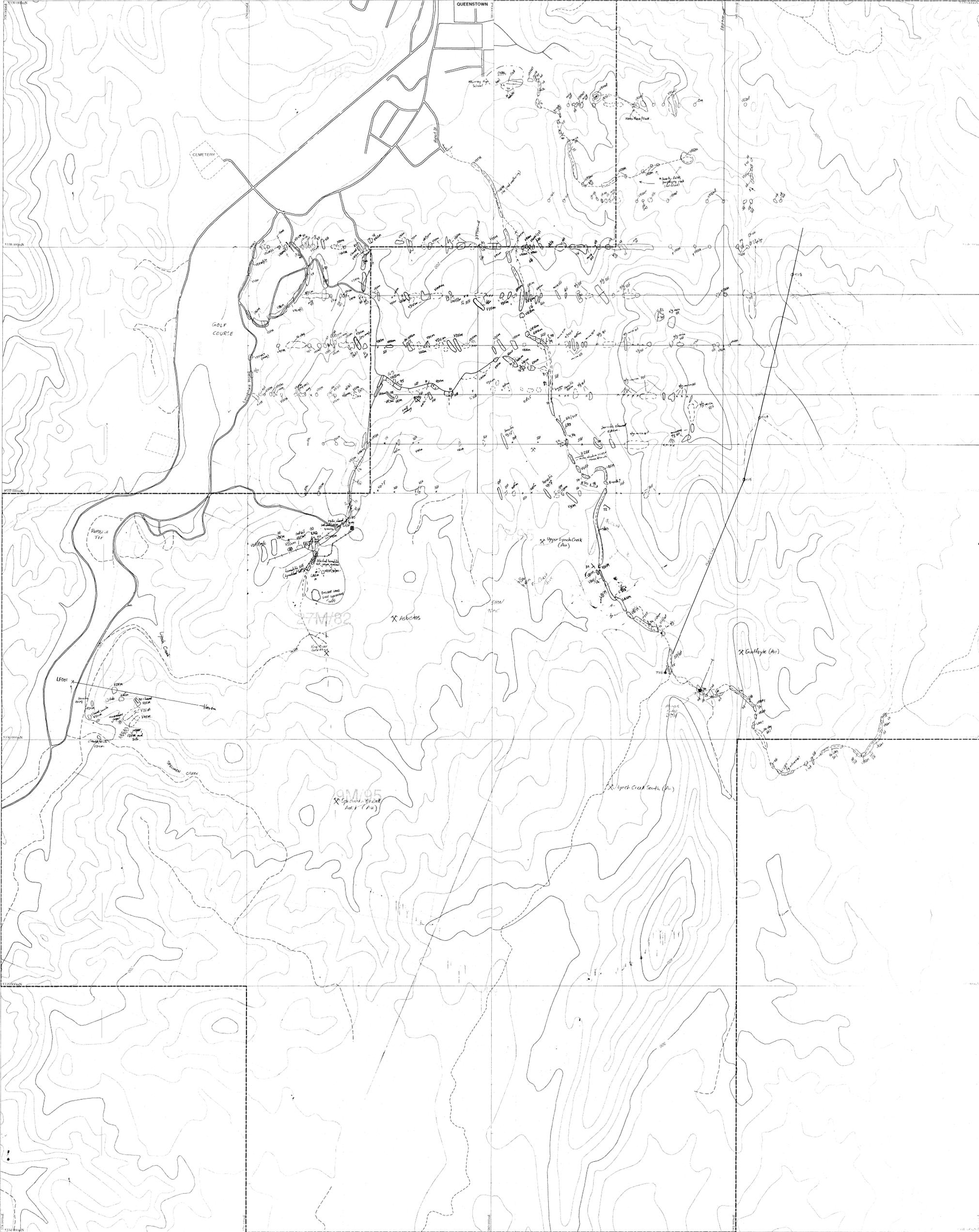
Sample No.	Depth (m)	Element Method	Ir	Fe	La	Lu	Mo	K	Rb	Sm	Sc	Se
		Detection	GN801									
		Units	20	0.05	0.5	0.2	5.0	0.2	20	0.2	0.1	5.0
			ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
W255476	307 - 308		-20	4.84	78.4	0.3	-5.0	0.9	37	9.5	25.5	-5.0
W255477	308 - 309		-20	4.76	4.76	0.3	-5.0	1.4	46	9.4	25.2	-5.0
W255478	309 - 310		-20	5.21	5.21	0.3	-5.0	1.9	44	9.4	28.4	-5.0

Sample No.	Depth (m)	Element Method	Na	Ta	Th	W	U	Yb
		Detection	GN801	GN801	GN801	GN801	GN801	GN801
		Units	0.010	1.0	0.5	2.0	2.0	0.5
			%	ppm	ppm	ppm	ppm	ppm
W255476	307 - 308		2.650	1.6	25.8	-2.0	6.1	2.07
W255477	308 - 309		2.470	1.8	24.4	-2.0	5.9	2.16
W255478	309 - 310		2.450	1.6	25.4	-2.0	5.0	2.16

APPENDIX 7

298076

PLANS



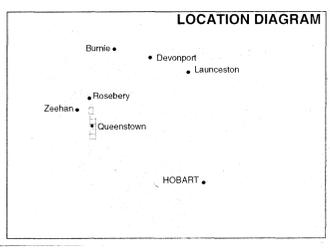
97-4016



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TOPOGRAPHY

—	Road
- - -	Track
- · - · -	Railway Line
□	Building
- · - · -	Fence
- · - · -	Watercourse
○	Lake
—	Grid line
- - -	Tenement Boundary
— 20 —	Index contour with value
— 200 —	Minor contour with value



PLAN 1		298078	
Member of the Renison Goldfields Consolidated Group			
TASMANIA BASE-METALS			
LYNCHFORD AREA E.L. 17/95			
TOPOGRAPHICAL MAP			
Geology	geol10	Geologist	Date
Topography	1:5000	M. Vicary	August 1995
Aeromaps	23023-5	Drawn	Revised Date
Soils samples	-	M. Wether	XX
Drilling	-	Writer	1:25,000 Ref. Map
Tenement	1:655	Drawing Path:	XX
Ang Grid	-	D. ms-jr@lynchbase	Drawing Name:
			23149/3/03/91

97-4016

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

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298079

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

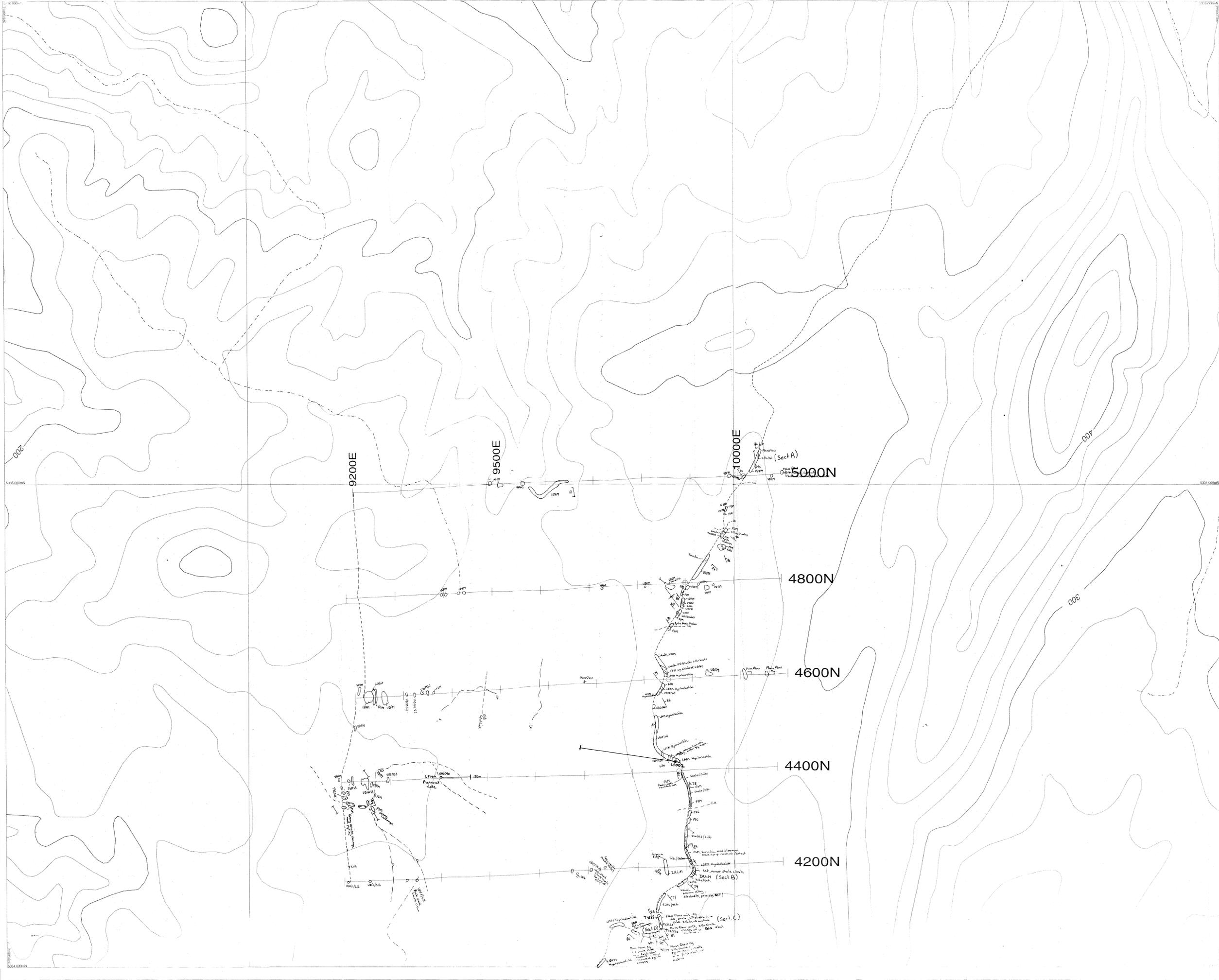
CRYSTAL TYPE
X - Crystal rich
A - Aphyric
F - Feldspar phyrlic
< - Feldspar - quartz phyrlic
> - Quartz - feldspar phyrlic
Q - Quartz phyrlic
H - Hornblende phyrlic
P - Pyroxene phyrlic
B - Biotite phyrlic
V - Vitric / glassy
L - Lithic rich
R - Reworked, commonly with Carbonate matrix

OTHERS
TILL - Glacial moraine
CLAY - Glacial clays
SILT - Black pyrite siltstone
FALT - Fault
CARB - Massive Carbonate
CBBX - Carbonate breccia

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

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
L - Limonite

N - Scale
1 - Very Weak
3 - Weak
5 - Moderate
7 - Strong
9 - intense



Geology

- VFF, VOFM, VOFc - Eld. phytic volcanoclastic sediments.
 - LDFM - Eld. phytic dacite lavas + hyaloclasts.
 - IR7M - med. grained rhyolitic qtz? Eld. phytic intrusive?
 - FSM, F5c - med. coarse grained, Eld. phytic, lithic, volcanoclastic mass flows in a mud matrix.
 - MassFlows - coarse grained mass flows with large clasts of siltstone + shale.
- (Sect A) - 1:100 scale sections

TOPOGRAPHY

- Road
- - - - - Foot
- - - - - Railway line
- Building
- - - - - Fence
- - - - - Home/Bar/Clubhouse
- - - - - Interceptor canal
- - - - - Work Area 3m
- - - - - Settlement Boundary
- - - - - Contour with value
- - - - - Elevation

PLAN 2



**LYNCHFORD AREA E.L. 2/94
GRID EXTENSION FACT GEOLOGY**

Reference Files:	3. Sampling: .xx	4. Toposurf: .xx
1. Geology: .xx	5. Coord Grid: 292gr10.dgn	
2. Topography: topd-ar.dgn		
Compiled:	Date:	Scale:
D. Gregory	3 October 1998	1:2500
Drawn:	Revision Date:	A.M.G. Zone:
M. Vulliamy		55
Drawings Path:	Drawing Name:	
c:\msd\haz\lynch\bas	2314r0001.dgn	

Fact Geology

97-4016

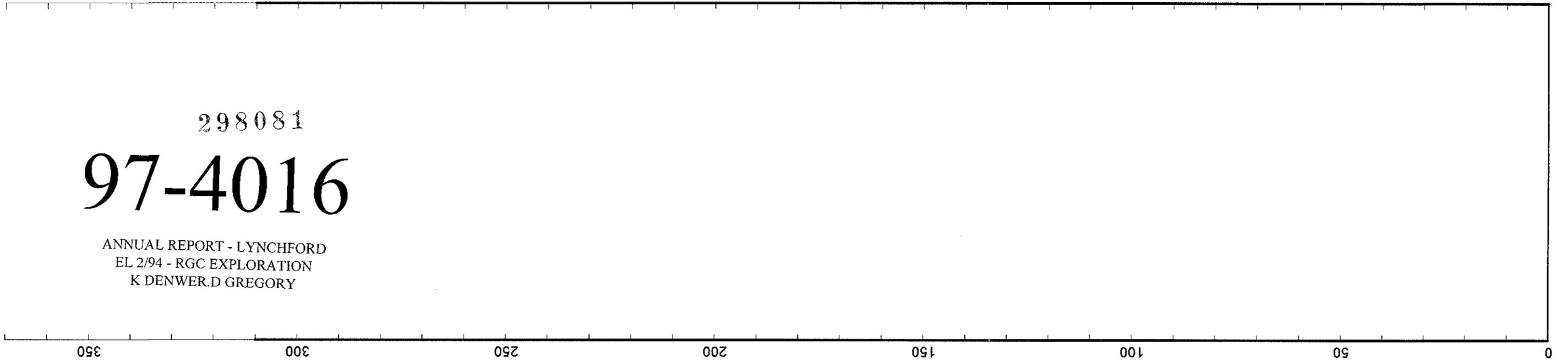
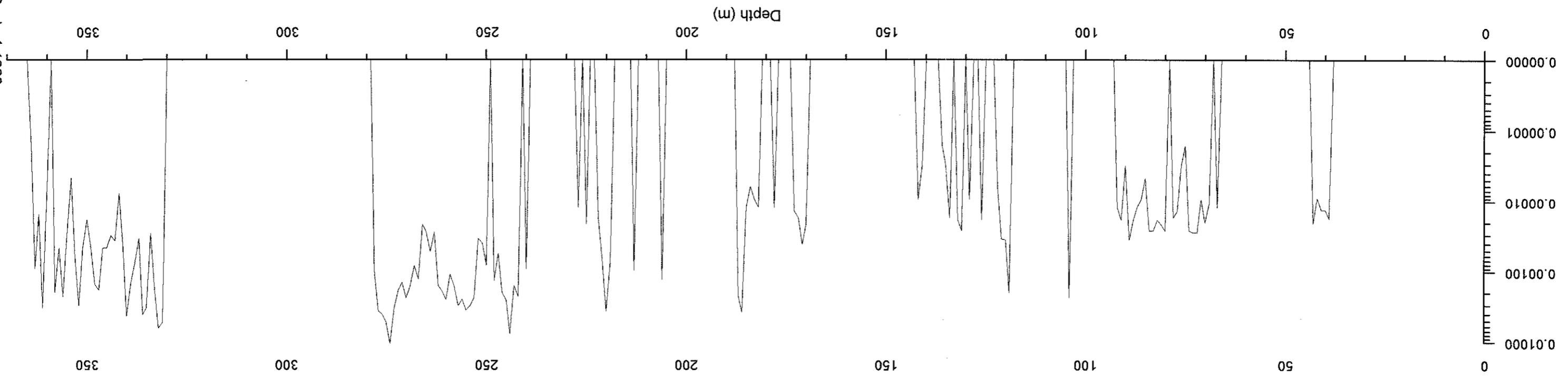
ANNUAL REPORT - LYNCHFORD
E.L. 2/94 - REE EXPLORATION
K. DENVER/O. GREGORY

LF002 ?
MINERS RIDGE LF001 Magnetic Susceptibility Log

Magnetic Susceptibility (SI)

5 cm

Formation Lithology Alteration



Scale 1:1000

RGC EXPLORATION PTY LTD

Tasmania Base Metals
 Miners Ridge Project
 Magnetic Susceptibility Log
 May 1997

RGC Zeehan
 Plan No. 3

Hole: LF001
 Collar:mE AMG
 Azimuth:mN AMG
 Dip:
 Depth: 367m
 Date Completed:

298081
97-4016

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 EL 2/94 - RGC EXPLORATION
 K DENWER.D GREGORY