587001

EL 7/88 BEACONSFIELD

ANNUAL REPORT

1997 - 98

EL 7/1988

See folio 89

Grant MacDonald

Beaconsfield Mine Joint Venture

11 September, 1998

527002

TABLE OF CONTENTS

Page No.

1.	***SUMMARY***	***4***
2.	***INTRODUCTION***	***6***
2.1	LOCATION AND ACCESS	6
2.2	TENURE AND LAND USAGE	6
2.3	TOPOGRAPHY AND VEGETATION	6
3.	***PREVIOUS EXPLORATION***	***7***
4.	***GEOLOGY***	***10***
4.1	INTRODUCTION	10
4.2	REGIONAL GEOLOGY	10
4.3	LOCAL GEOLOGY	13
4.4	STRUCTURE	18
4.5	MINERALISATION	20
5.	***EXPLORATION PHILOSOPHY***	***21***
6.	***WORK COMPLETED AND RESULTS, 1998***	***24***
6.1	GEOLOGY	24
6.1.1	**Introduction**	**24**
6.1.2	**Core Logging**	**24**
6.1.3	**Lithogeochemistry**	**25**
6.2	PEASE CREEK PROSPECT	29
6.2.1	**Introduction**	**29**
6.2.2	**Diamond Drilling**	**29**
6.2.3	**Mapping**	**31**
6.3	TASMANIA REEF OPEN CUT	32
6.3.1	**Introduction**	**32**
6.3.2	**Mapping**	**33**
6.3.3	**Channel Sampling**	**33**
6.3.4	**RC Drilling**	**35**
6.4	MAGNETICS	37
6.4.1	**Introduction**	**37**
6.4.2	**Drill Core Magnetic Susceptibility**	**37**
6.4.3	**Aeromagnetics Interpretation**	**38**
6.4.4	**Helimagnetics**	**39**
6.4.5	**Ground Magnetics**	**41**
6.5	HONOURS THESES	42

527003

7. *EXPENDITURE* 43

7.1 1997-98 EXPENDITURE 43

7.2 FUTURE EXPENDITURE 43

8. *PROPOSED EXPLORATION* 44

8.1 INTRODUCTION 44

8.2 PEASE CREEK 44

8.3 HELIMAGNETIC TARGETS 45

8.3.1 Introduction 45
8.3.2 Targets 45

8.4 TASMANIA REEF OPEN CUT 47

8.4.1 Introduction 47
8.4.2 RC Drilling of Channel Samples 47
8.4.3 Diamond Tails 48
8.4.4 RC Follow-up of BRC54 48

8.5 ADDITIONAL DRILLING 49

9. *REFERENCES* 50

APPENDICES

1. *DRILL HOLE LOGS (RC AND DDH)*
2. *ROCK SAMPLE LEDGER*
3. *LITHOGEOCHEMICAL RESULTS SPREADSHEET*
4. *ASSAY RESULTS*
5. *LEAMAN (An interpretation regional geophysical data Beaconsfield region, Northern Tasmania)*
6. *WHITE (Interpretation of a helicopter magnetic survey near Beaconsfield Mine Tasmania)*
7. *STANLEY AND PAYNE (A ground magnetic survey of the Beaconsfield township)*
8. *HONOURS THESES ABSTRACTS*

LIST OF TABLES

Table 1. Summary of Trace Element Lithogeochemistry

Table 2. Summary of Pease Creek Drilling Results

Table 3. Summary of Channel Sampling, Tasmania Reef Open Cut

Table 4a. Summary of RC Drilling Results, Tasmania Reef Open Cut

Table 4b. Summary or RC Drilling Results, Florence Nightingale Area

527004

LIST of FIGURES

Figure No.	Title	Scale
1.	EL 7/88 - BEACONSFIELD Location Plan	1:50 000
2.	EL 7/88 Geology and Work Done	1:25 000
3.	Interpretative Stratigraphic Column	N.A.
4.	Mine Cross Section – Lithogeochemical Sample Locations and Magnetic Susceptibility	1:2 000
5.	Mine Cross Section – Ni, Cr, Ti, Zr and Ti/Zr Results	1:2 000
6.	Plots of Cr versus Ni for "shales" and "sandstones and Conglomerates"	N.A.
7.	Pease Creek Prospect - Geology and Drillhole Locations	1:1 000
8.	Pease Creek Prospect - West Diamond Drill Section	1:250
9.	Pease Creek Prospect - East Diamond Drill Section	1:250
10.	Pease Creek Prospect - B46 (Oblique) Diamond Drill Section	1:250
11.	Tasmania Reef Open Cut Prospect – Outcrop Geology	1:250
12.	Tasmania Reef Open Cut Prospect - Channel Sample Locations	1:250
13.	Tasmania Reef Open Cut Prospect - Au Results and Anomalies	1:250
14.	Tasmania Reef Open Cut Prospect - As Results and Anomalies	1:250
15.	Tasmania Reef Open Cut Prospect - Drillhole Locations	1:1 000
16.	Tasmania Reef Open Cut Prospect - Drill Section 10106mE	1:250
17.	Tasmania Reef Open Cut Prospect - Drill Section 10127mE	1:250
18.	Tasmania Reef Open Cut Prospect - Drill Section 10147mE	1:250
19.	Tasmania Reef Open Cut Prospect - Drill Section 10187mE	1:250
20.	Tasmania Reef Open Cut Prospect - Drill Section 10206mE	1:250
21.	Tasmania Reef Open Cut Prospect - Drill Section 10223mE	1:250
22.	Tasmania Reef Open Cut Prospect - Drill Section 10248mE	1:250
23.	Tasmania Reef Open Cut Prospect - Drill Section 10273mE	1:250
24.	Tasmania Reef Open Cut Prospect - Drill Section 10351mE	1:250
25.	Helimagnetics Survey image	1:25 000
26.	Helimagnetics Survey image, interpretation and targets	1:25 000

1. SUMMARY

EL 7/88 surrounds the Beaconsfield Mine Joint Venture's mining lease CML 1669P/M which encompasses the Beaconsfield Gold Mine centred on the Tasmania Reef. The current resource is 1.929 million tonnes @ 17.37 g/t Au for 1.08 million ounces of contained gold. Historically, 0.85 million ounces of gold were produced at recovered grade 24.5 g/t Au from 1877 to 1914.

Previous exploration has been sporadic, fluctuating with and generally secondary to attempts to reopen the Tasmania Mine. Recent exploration has become more focussed and ongoing. A number of prospects have been defined:

- Pease Creek.
- Helimagnetic Targets – 10 within EL 7/88.
- Tasmania Reef Open Cut.
- 3km untested strike potential of mine sequence in the Cabbage Tree slice.
- North Tasmania/Brandy Creek.
- Southern reef.

Work this year has focused on:

- Diamond drilling Pease Creek (738 metres).
- RC drilling (549 metres) and channel sampling (257 samples over 425 metres) Tasmania Reef Open Cut.
- Magnetic (high resolution helimagnetics with ground magnetics over the town) surveys over the whole licence.
- Improving understanding of the geology of the licence and the mine sequence rocks.
- Compiling and appraising previous exploration.

Better results from Pease Creek include:

BRD29	14.5 m @ 1.34 g/t Au
B41	10.0 m @ 5.30 g/t Au (reported last year)
B43	8.8 m @ 1.49 g/t Au
B44	5.9 m @ 1.53 g/t Au
B46	4.0 m @ 0.97 g/t Au

The mineralised zone is defined by small quartz+ankerite+sulphide (pyrite, arsenopyrite) veins in brecciated sandstone of the lower Eaglehawk Gully Formation.

Better results from the Tasmania Reef Open Cut channel sampling include:

3.0 m @ 1.09 g/t Au
16.0 m @ 1.33 g/t Au
3.0 m @ 5.01 g/t Au
2.5 m @ 3.50 g/t Au

In general however, mineralisation is patchy and these anomalies are discrete.

Better results from the Tasmania Reef Open Cut RC drilling include:

527006

BRC43	1.0	m @ 12.2 g/t Au
BRC47	1.0	m @ 4.81 g/t Au
BRC54	4.0	m @ 4.41 g/t Au

Some significant but patchy mineralisation has been intersected in the hangingwall to the reef itself. The BRC54 intersection is apparently a footwall reef worked to an unknown but probably limited degree in the Florence Nightingale mine.

The helimagnetics survey has provided a high resolution data set over the licence excluding the township proper. Imaging and interpretation of the data, carried out by Bob White of Tooronga Resources, has defined 10 target structures within EL 7/88 (a further 11 are defined within CML 1669P/M). Most of the targets occupy analogous structural and stratigraphic settings to the Tasmania Reef. Ground magnetics was less successful due to the sensitivity of the instrument and the level of magnetic noise within the town.

The understanding of the geological setting of the Tasmania Reef has improved with the access to the reef itself and some focused work on the host rocks and regional geology. A significant conclusion is that the shales, siltstones and sandstones which outcrop to the west of Cabbage Tree Hill and which were mapped by Gee and Legge (1979) as Cambrian, are probably correlates of the Devonian Corn Hill Beds along strike to the south. A consequence of this interpretation is that the Cabbage Tree thrust, the basal thrust to the mine sequence, runs along the western side of Cabbage Tree Hill and not further west as Gee and Legge (1979) suggest. It is probably intersected in B13 and B32 and the 422' west cross-cut in the Moonlight mine. This determination is considered significant for future exploration.

Future work will concentrate largely on RC and diamond drilling. Drilling is proposed to follow up the anomalous results at Pease Creek, the Tasmania Reef Open Cut and to test the helimagnetics targets. Further drilling is proposed to complete fences of overlapping holes along the Cabbage Tree and also possibly the Cobblestone Creek slices.

2. *INTRODUCTION*

2.1 LOCATION AND ACCESS

EL 7/88 "Beaconsfield" is centred around the old mining town of Beaconsfield. The EL surrounds CML 1669P/M, the mining lease held by the Beaconsfield Mine Joint Venture over the Tasmania Reef.

Beaconsfield lies approximately 40 kilometres by road northwest of Launceston in northern Tasmania on the western side of the Tamar River.

Access to the EL is by the West Tamar Highway from Launceston. Access within the EL is very good although limited within the built up areas of Beaconsfield township.

2.2 TENURE AND LAND USAGE

EL 7/88 was granted to Beaconsfield Operations Pty Ltd on 14th October 1988. The lease now covers an area of approximately 13 skm. Exclusions from the EL include CML 1669P/M, the Dan's Hill RAP, some Boral and Temco ML's (gravel and silica) and some small Crown Reserves.

The land is used for residential purposes (township of Beaconsfield), rural residential (small holdings) and agriculture (generally grazing) over approximately 60% of its area with the remainder Crown Land and multiple use State Forest.

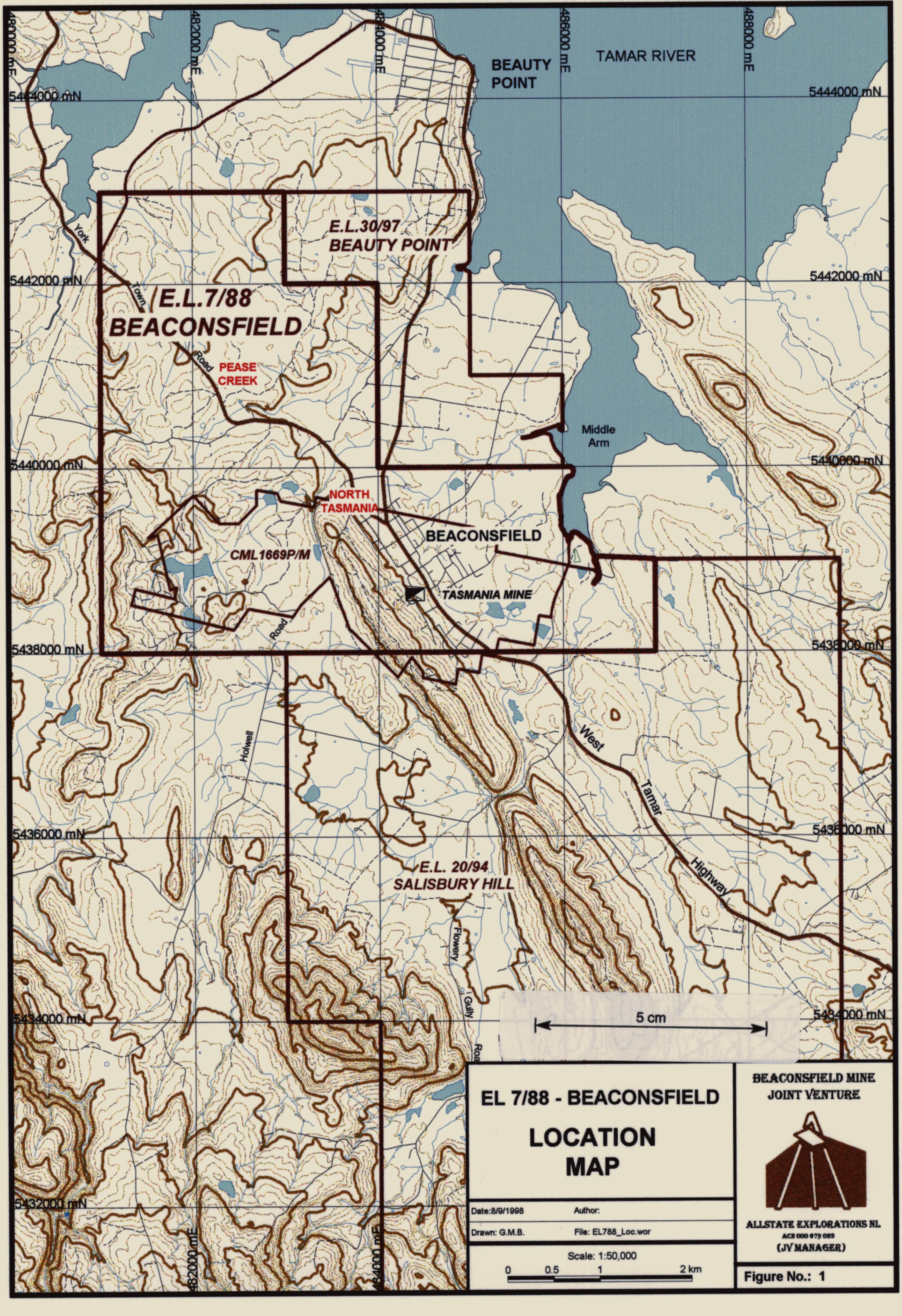
2.3 TOPOGRAPHY AND VEGETATION

The only significant topographic feature is Cabbage Tree Hill, a strike ridge running north-northwest to the immediate west of the township. It rises to an elevation of approximately 120 metres A.S.L. above generally flat country of 50-70 metres A.S.L. on either side. The ridge is lightly forested with regrowth dry sclerophyll vegetation. Photographs taken during the latter part of last century show the hill to be essentially bare. The flatter areas to the east and west are developed being either town (east) or farmland (west).

The southwestern and northeastern parts of the EL are elevated surfaces underlain by Tertiary gravel. The area remains covered by dry sclerophyll, in part swampy, vegetation though most of these areas have been disturbed in the search for high quality gravel for construction purposes. The northwestern part of the licence is more undulating underlain by Permian sediments and is under pasture.

The eastern boundary of the EL is the Middle Arm of the Tamar River Estuary.

527008



TAMAR RIVER
BEAUTY POINT
480000 mE
482000 mE
484000 mE
486000 mE
488000 mE
5444000 mN
5442000 mN
5440000 mN
5438000 mN
5436000 mN
5434000 mN
5432000 mN
E.L.30/97
BEAUTY POINT
E.L.7/88
BEACONSFIELD
York
Town
Road
PEASE
CREEK
Middle
Arm
NORTH
TASMANIA
BEACONSFIELD
CML1669P/M
TASMANIA MINE
Road
West
Tamar
Highway
Holwell
E.L. 20/94
SALISBURY HILL
Flowery
Gully
Road
5 cm
EL 7/88 - BEACONSFIELD
LOCATION
MAP
Date:8/9/1998
Author:
Drawn: G.M.B.
File: EL788_Loc.wor
Scale: 1:50,000
0
0.5
1
2 km
BEACONSFIELD MINE
JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 079 023
(JV MANAGER)
Figure No.: 1

3. *PREVIOUS EXPLORATION*

Gold was discovered at "Brandy Creek" in 1869. Prospecting saw most discoveries made in the following 6 or 7 years of the fields history. The Tasmania Reef was discovered on Cabbage Tree Hill in 1877 and was worked until 1914 producing approximately 850 000 ounces of gold at an average grade of 24.5g/t Au.

Modern exploration has been largely piecemeal, being carried out in a few discrete bursts. A similar history is apparent for the deeper drilling of the Tasmania reef.

From 1938 to 1942 the Mines Department drilled B1, B2 and B3 near the Tasmania mine, however, the core is lost and records are poor (Hicks, 1989).

The next phase of exploration of the Tasmania reef was conducted in 1967-68 (Noldart, 1964; 1968). This involved drilling of holes B4 with wedges B4A and B4B and B5 by the Tasmanian Mines Department. Allstate Explorations NL managed exploration from 1969 to 1979 and drilled a single deep hole A3I with daughter holes, A3II and A3III, in 1969-71 (Jones, 1972) and deep holes A6 and A7 from 1973 to 1974 as well as carrying out a feasibility study into reopening the mine (Elsworth and Silver, 1975). Surface exploration commenced in 1969 with the drilling of 57 auger holes (for 872.4 metres) in the Beaconsfield township and along West Street. There were no significant results (Leckie, 1969).

AMAX managed exploration from 1979 to 1983 with a large focus on recovering the Hart shaft as well as groundwater, geotechnical, feasibility and engineering studies and ore resource estimates (Anon., 1987).

Their first major phase of exploration was that described by Bates (1979a, 1979b, 1979c and 1979d). The work consisted largely of four fences of RAB and air core holes with a few diamond tails (numbered RB1 to 89). Two fences of vertical shallow RAB holes were drilled across the Tasmania reef and two lines over the North Tasmania workings. A number of anomalies were defined with RB8, 9, 10 and 11 on Line 1 over the Tasmania reef and RB35 with 1m @ 1.5 g/t Au on Line 3 at North Tasmania particularly significant. Bates (1979b) also discussed the potential for a Southern reef. Some limited mapping was conducted at this time (Bates, 1979c). References to 'lineaments' are presumably from an airphoto interpretation done around this time also.

From mid 1980 to the end of 1981 Cabbage Tree Hill was gridded and mapped at 1:2000 (Hamlyn, 1982). The Garfield, Shona's No.2 and North Tasmania Adits 1, 2 and 3 were sampled and mapped. The London Adit opened up, sampled, mapped and closed off again.

In 1983 RGC entered into an agreement to spend $2 million to earn 30% equity in the Project. It did not meet this commitment and ultimately withdrew, although as Project Manager it did drill a total of 14 diamond drill holes (inc. wedges) in the period up to 1985. During its tenure the water level in the Hart Shaft was kept at 55 metres below surface. Ongoing deep drilling included deep DDH B8 and daughter holes B9, B10 B10a, B10b, B10c, deep DDH B11 and daughters B11a, B11b, B11c drilled from late 1982 to June 1983 (Newnham and Pease, 1983), B12, B12a and B12b (as daughters off B11) and B13 to mid 1984 (Pease, 1984) and B14, with daughters B15, B15a, B16 and B17 from mid 1984 to February 1985 (Pease, 1985). B8, B14 and B15 were abandoned prematurely. B15 was replaced with B15a.

From May 1985 to December 1987 the Project Manager was Austamax/ACM. During this period work was largely concerned with reopening the mine. EL 17/73 was relinquished in 1987 with most of the area re-pegged as EL 7/88 by Beaconsfield Operations Pty Ltd. The EL was included in the Beaconsfield Mine Joint Venture between Beaconsfield Gold N.L., Allstate Prospecting Pty Limited and Poseidon Gold Limited on 18th August 1993.

A considerable amount of fieldwork was conducted from October 1987 to January 1989 (Hicks, 1989). This work included mapping at 1:5000 scale (using airphotos as the base), regional BLEG sampling (175 samples), an aeromagnetics/radiometrics survey over the region, costeaning (six in total), Pb isotopes on the reef from B11/B11A, and the drilling of 37 RC and RAB holes for 1768m (the RC and OHH series). Most holes were drilled in the vicinity of the Tasmania reef with the remainder at Brandy Creek following up the earlier RB35 intersection. The costeans were dug across aeromagnetic linears in the vicinity of the Tasmania mine.

In 1991 Allen McGain was contracted to carry out some fieldwork. Initially this consisted of some reconnaissance mapping and a literature search. The recommendations made were followed-up in 1991. This work consisted of attempting to drill the Tasmania Reef and the south lode from the 150 mL in the Hart Shaft and mapping and sampling in the North Tasmania area including reopening the old inclined shaft to 24 metres and mapping and sampling the London Adit (Blanchard and McGain, 1991).

Deep drilling of the Tasmania reef recommenced in 1993-94 after ratification of the current Joint Venture Agreement with deep DDH B18 and daughters B19, B20 and B20a, and deep DDH B21 with daughters B21a, B22, B22a and B22b (Newnham, 1994). From 1994-95 a further two parent holes were drilled, B23 with daughters B23a, B23b, B24, B24a, B24b, B26, B26a and B26b, and B25 with daughters B25a, B25b, B27, B27a, B27b, B29, B29a and B29b (B28 was a geotechnical hole) (Newnham, 1995).

In 1995-96 a series of 25 RC holes (BRC1 to BRC25) for 1409 metres (including a total of 140 m of diamond tails on BRC24 and BRC25) were drilled in the Pease Creek area (McKeown, 1995). At the same time the Tasmania reef was being tested by B30 with daughters B30a, B30b, B31, B31a, B32 and B32a (McKeown, 1996; Hills, 1996). B28, B33, B34, B35 and B36 were drilled as geotechnical investigation holes although B34 also intersected the Tasmania Reef (Newnham, 1996).

Exploration since 1995 has been ongoing. As outlined by Hills (1997), work in the 1996-97 year consisted of follow-up RC and diamond drilling of anomalous gold mineralisation in hole BRC15 at Pease Creek with 10 holes for 697 metres (BRC26 to BRC35). Diamond drilling of the North Tasmania reef as proposed by Newnham (1996) was carried out with 4 diamond holes for 789 metres (B37 to B41). A ridge-top soil sampling programme covering outcropping Cabbage Tree Formation rocks was also completed at this time. Other work included historical data compilation, underground diamond drilling for the southern reef and minor bedrock sampling from RC drilling associated with the tailings dam investigations. Resource definition of the Tasmania reef continued from 1996-97 until early 1998 with underground diamond drilling from the 300mL and 375mL of C2 to C12, C15 to C62 and C69 (and some wedges) used in the resource calculations (Hills, 1998a).

Essentially exploration has focussed on five discrete areas:

the Tasmania Reef,

the Southern Reef,

the old Tasmania Reef Open Cut,

North Tasmania/Brandy Creek and

Pease Creek

as well as the targets defined by the regional aeromagnetics/radiometrics survey.

There have been a number of attempts to drill fences of holes in a north-northwest direction along the line of strike of the apparently favourable mine sequence.

4. GEOLOGY

4.1 INTRODUCTION

The Beaconsfield Gold Mine in Northern Tasmania is focussed on a mineralised shear structure of Middle Devonian age, the Tasmania Reef, which crosscuts an easterly dipping Ordovician stratigraphy. The resource is a large mesothermal vein deposit similar in style to the Central Victorian deposits at Ballarat and Bendigo and prior to historical mining constituted a resource in excess of 2 million ounces of gold. Diamond drilling over thirty years since the mid 1960's has confirmed that continuous mineralisation extends to a vertical depth of 700m beneath the historical mining operation. The current resource of 1.929 million tonnes at 17.37 g/t Au (1.08 million ounces) (Hills, 1998a) was estimated using information gained from the diamond drilling.

5.2 REGIONAL GEOLOGY

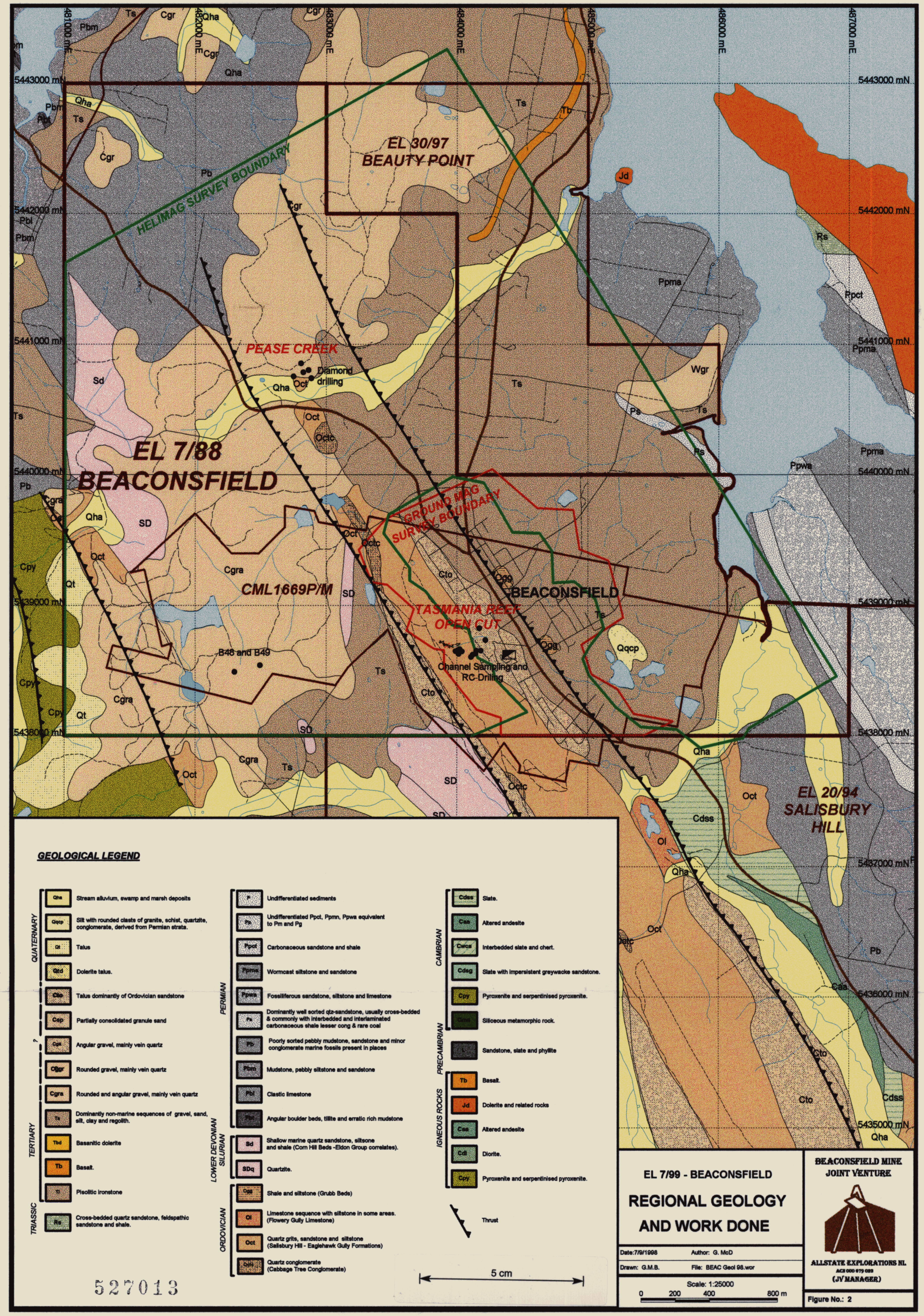
The geology of the Beaconsfield area of central northern Tasmania includes many of the major elements of Tasmanian geology within an area of less than 100 km^2 (fig 2). Of particular significance is the fact that the Beaconsfield area is the only part of the state where an interpreted contact between the Eastern and Western Tasmanian Terranes outcrops. This regional setting may play a significant role in the location of the 2 million ounce Tasmania Reef deposit.

Elliott et. al. (1993) studied the area between Port Sorell and the Tamar River, and identified three distinct structural and stratigraphic terranes (from west to east) the Port Sorell Block, Badger Head Block and Beaconsfield Block, providing a framework within which the following description of the geology is conveniently constrained (the Tasmania Reef is hosted within the Beaconsfield Block).

The original contacts between these three allochthonous blocks are most probably east dipping thrusts, interpreted by Elliott et. al. (1993) to be Late Cambrian thrusts reactivated in the Middle Devonian.

Due to the allochthoneity of these blocks, it is not clear which are the oldest rocks in the region. The structural interpretation of Elliott et. al. (1993) invokes westward directed thrusting in the Late Cambrian juxtaposing the Port Sorell Formation, Badger Head Formation, Anderson's Creek Ultramafic Complex and Cambrian? sediments (the latter including the siltstones and cherts which lie between the Badger Head Block and the Anderson's Creek Ultramafic Complex as well as Dally's Siltstone at the base of the Cobblestone Creek slice in the Beaconsfield Block - see below). Ages have been assigned to these rocks largely on affinities with rocks elsewhere in Tasmania or relative degree of deformation, the exception being Dally's Siltstone which contains fossils of Cambrian age (Green, 1959).

The Port Sorell Formation consists of shales, siltstones, chert, impure and quartz rich sandstones, dolomite, matrix supported conglomerate, intermediate volcanic or hypabyssal rocks and blocks, dykes and sills of dolerite (Elliott et. al., 1993; Gee and Legge, 1979). It is interpreted to be a tectonic melange



EL 30/97
BEAUTY POINT
HELIMAG SURVEY BOUNDARY
PEASE CREEK
Diamond drilling
EL 7/88
BEACONSFIELD
CML1669P/M
GROUND MAG SURVEY BOUNDARY
BEACONSFIELD
TASMANIA REEF OPEN CUT
Channel Sampling and RC-Drilling
B48 and B49
EL 20/94
SALISBURY HILL
481000 mE
482000 mE
483000 mE
484000 mE
485000 mE
486000 mE
487000 mE
5443000 mN
5442000 mN
5441000 mN
5440000 mN
5439000 mN
5438000 mN
5437000 mN
5436000 mN
5435000 mN
GEOLOGICAL LEGEND
QUATERNARY
Qha Stream alluvium, swamp and marsh deposits
Qqcp Silt with rounded clasts of granite, schist, quartzite, conglomerate, derived from Permian strata.
Qt Talus
Qtd Dolerite talus.
Cto Talus dominantly of Ordovician sandstone
Csp Partially consolidated granule sand
?
Cga Angular gravel, mainly vein quartz
Cggr Rounded gravel, mainly vein quartz
Cgra Rounded and angular gravel, mainly vein quartz
TERTIARY
Ts Dominantly non-marine sequences of gravel, sand, silt, clay and regolith.
Tbd Basanitic dolerite
Tb Basalt.
Ti Pisolitic ironstone
TRIASSIC
Rs Cross-bedded quartz sandstone, feldspathic sandstone and shale.
PERMIAN
P Undifferentiated sediments
Pp Undifferentiated Ppct, Ppmn, Ppwa equivalent to Pm and Pg
Ppct Carbonaceous sandstone and shale
Ppma Wormcast siltstone and sandstone
Ppwa Fossiliferous sandstone, siltstone and limestone
Ps Dominantly well sorted qtz-sandstone, usually cross-bedded & commonly with interbedded and interlaminated carbonaceous shale lesser cong & rare coal
Pb Poorly sorted pebbly mudstone, sandstone and minor conglomerate marine fossils present in places
Pbm Mudstone, pebbly siltstone and sandstone
Pbl Clastic limestone
Angular boulder beds, tillite and erratic rich mudstone
LOWER DEVONIAN SILURIAN
Sd Shallow marine quartz sandstone, siltsone and shale (Corn Hill Beds -Eldon Group correlates).
SDq Quartzite.
ORDOVICIAN
Ogg Shale and siltstone (Grubb Beds)
Ol Limestone sequence with siltstone in some areas. (Flowery Gully Limestone)
Oct Quartz grits, sandstone and siltstone (Salisbury Hill - Eaglehawk Gully Formations)
Octc Quartz conglomerate (Cabbage Tree Conglomerate)
CAMBRIAN
Cdss Slate.
Caa Altered andesite
Cwcs Interbedded slate and chert.
Cdsg Slate with impersistent greywacke sandstone.
Cpy Pyroxenite and serpentinised pyroxenite.
Siliceous metamorphic rock.
PRECAMBRIAN
Sandstone, slate and phyllite
IGNEOUS ROCKS
Tb Basalt.
Jd Dolerite and related rocks
Caa Altered andesite
Cdi Diorite.
Cpy Pyroxenite and serpentinised pyroxenite.
Thrust
5 cm
527013
EL 7/99 - BEACONSFIELD
REGIONAL GEOLOGY AND WORK DONE
Date:7/9/1998
Author: G. McD
Drawn: G.M.B.
File: BEAC Geol 98.wor
Scale: 1:25000
0 200 400 800 m
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)
Figure No.: 2

deformed in an east facing accretionary wedge (Elliott et. al., 1993). Age constraints are poor but angular organic fragments and degree of metamorphism probably place it as Cambrian in age (Elliott et. al., 1993).

The Badger Head Block is structurally complex area consisting of multiply folded quartzites and phyllites of the Badger Head Formation. Although correlated with the Precambrian Burnie Formation, largely on the basis of the degree of deformation, Gee and Legge (1979) note the similarity with the Siluro-Devonian Mathinna Beds from the Eastern Tasmania Terrane. Rocks of probable Ordovician age unconformably overlie the Badger Head Formation near Mt Careless precluding a direct correlation with the Mathinna Beds (Gulline, 1981; Purvis, 1998). Elliott et. al. (1993) simply conclude that the Badger Head Formation is probably an allochthonous block introduced in the Late Cambrian thrusting.

The eastern boundary of the Badger Head Block is in faulted contact along its eastern margin with cherts and shales, the westernmost rocks of the Beaconsfield Block.

The pre-Carboniferous geology of the Beaconsfield Block is divided into four or five parallel imbricate thrust slices, each containing discrete parts of the stratigraphic section (Gee and Legge, 1979). From west to east the five are called the Anderson's Creek slice, Dan's Hill slice, Peaked Hill slice, Cabbage Tree slice and Cobblestone Creek slice. Despite some differences between recognisable units in different slices, the similarities are such that a reasonable picture of the overall stratigraphic section from Cambrian to Devonian is attainable. Structurally the rocks are dominated by faulting with only very minor folding. For the most part, bedding retains a north-northwest strike and mostly though not always a moderate easterly dip although recent mapping by Purvis (1998) has identified a tight synclinal axis related to recumbent folding within the Ordovician sequence near Glengarry. A similar structural attitude was identified within the presumed Cambrian sequence at Port Sorell (Gee and Legge, 1979).

The sediments along the western side of the Anderson's Creek slice are contact metamorphosed against the Anderson's Creek Ultramafic Complex to the east and contain undated but presumably Cambrian columnar stromatolites (Banks, 1989). The Anderson's Creek Ultramafic Complex consists of pyroxenite, gabbro, serpentinite and hornfelsed sediments (Green, 1959; Gee and Legge, 1979). Dating of hornfelsed sediments is equivocal (Elliot et. al., 1993) but the rocks are considered to be of the same age as similar ultramafic bodies in western Tasmania.

Gee and Legge (1979) have mapped a thrust running through the Anderson's Creek Ultramafic Complex. The ultramafics east of this thrust are included as part of the Dan's Hill slice, defined by this sliver of ultramafics and an overlying small thickness of quartz sandstones, grits and conglomerates correlated with the Ordovician Cabbage Tree Conglomerate and Salisbury Hill Formations (terminology of Lewis, 1998). The faulted contact with the next slice to the east, the Peaked Hill slice, is inferred in the Dan's Hill area from the interpretation of the shales and sandstones to the east of these Ordovician rocks as Cambrian in age, an interpretation disputed here. Further south the existence of this fault is supported by the presence of Cambrian fossils in siltstones and slate at the base of the Peaked Hill slice (Gee and Legge, 1979) with another area of outcropping Ordovician quartz sandstones to the west in the Dan's Hill slice.

The oldest rocks in the Peaked Hill slice are the two small areas of outcropping Cambrian shales along the base of the western edge of Peaked Hill referred to above. The Ordovician rocks in the Peaked Hill slice consist of quartz sandstones and siltstones and a unit of quartz pebble conglomerate all essentially outcropping on Peaked Hill itself. The conglomerate outcropping near the crest of Peaked Hill may be the Cabbage Tree Conglomerate. On the flat to the east of Peaked Hill is a swampy depression around which limestone can be seen outcropping. This limestone is correlated with the Flowery Gully Limestone that outcrops 4-5 km to the south.

Gee and Legge (1979) interpreted a thrust along the eastern edge of this limestone, again based upon the interpretation of the shales, siltstones and sandstones outcropping along Middle Arm Creek beneath Leviathan Hill (as well as along Tattersalls Road) as being Cambrian in age. Where mapped or intersected in drilling these rocks consist of graded beds of turbiditic type. Simple field mapping with some support from lithogeochemistry (Ni and Cr in particular) argues for these rocks being correlates of the Corn Hill Beds (Hills, 1982) which are defined along Bull's Road approximately 6 km to the south-southeast and contain Devonian fossils. Thus, the geological boundary which exists between Peaked Hill and Leviathan Hill need only be an unconformity. There is evidence from outcrop at the western end of Middle Arm Gorge supporting a thrusted contact between the Cabbage Tree slice and the rocks to the west between Leviathan Hill and the western side of Cabbage Tree Hill and not where placed by Gee and Legge (1979). This interpretation is supported on historical mine plans.

Thus, the Peaked Hill slice consists of Cambrian siltstones, overlain by quartz pebble conglomerate, quartz sandstones and siltstones. These are correlated with the Salisbury Hill and Eaglehawk Gully Formations (terminology of Lewis, 1998) with the conglomerate possibly but not necessarily a correlate of the Cabbage Tree Conglomerate. These Ordovician siliciclastics are overlain by the Flowery Gully Limestone which is in turn overlain, possibly unconformably, by shales, siltstones and sandstones of the Corn Hill Beds.

The next slice to the east is the Cabbage Tree slice, host to the Tasmania Reef. As a result of its economic significance it is the best understood slice with a full cross-section in drill core in the vicinity of the mine (figure 4). The oldest rocks in the sequence are white limestones with occasional 10cm thick beds of chromite bearing quartz pebble conglomerates and dark grey foliated siltstone comprising the Blyth's Creek Formation. The serpentinite at the bottom of B13 and B32 (the deepest drill hole in the mine) is interpreted from petrology to be a serpentinised ultramafic with fluids possibly channeled up the thrust. The Blyth's Creek Formation is overlain sequentially by the Cabbage Tree Conglomerate, the Salisbury Hill Formation, the Eaglehawk Gully Formation, the Flowery Gully Limestone and the Grubb Shale before the overlying thrust, the Cobblestone Creek Thrust, truncates the section. This section is described in more detail under the Local Geology section.

The easternmost outcropping slice is the Cobblestone Creek slice. This slice is exposed in the upper sections of some of the Tasmania Reef drilling as well as outcrops predominantly to the west but also east of the West Tamar Highway south of Beaconsfield. The oldest lithology in this slice in the mine area is a distinctive polymict conglomerate containing rounded clasts of gabbro, dolerite, basalt, andesite, quartz wacke, carbonates, quartz-mica schists, cherts and carbonate altered ultramafics (Bottrill, 1998). The unit is strongly sheared and attenuated in drill core but less so in outcrop along Middle Arm Creek. This unit is overlain and interbedded (along Middle Arm Creek) with black shales, calcareous sandstones and siltstones, limestone and sandstone, the latter rocks showing similarities with the Eaglehawk Gully Formation rocks from the Cabbage Tree slice. Further south along strike this slice contains outcropping pyroxene phyric andesite intercalated with sandstones and siltstones containing trilobites indicating a Cambrian age.

Much of the Beaconsfield Block is overlain by recent cover sequences. A prograding sequence of limestone, mudstone and sandstone of Permo-Triassic age unconformably overlies but has largely been eroded off the underlying Lower Palaeozoic geology in the immediate environs of Beaconsfield. This sequence, which occurs throughout Tasmania, generally dips gently to the northeast at approximately 10° and is in turn intruded by a thick dolerite sill of Jurassic age. Tertiary aged basalts and unconsolidated sediments fill the Tamar Graben and associated smaller grabens that formed in an extensional environment during continental break-up. Quaternary alluvium occurs along the water courses.

4.3 LOCAL GEOLOGY

The Local Geology is defined to be that in the immediate vicinity of the Tasmania Mine and principally the Cabbage Tree slice, host to the Tasmania Reef. Some significant additions have been made to the understanding of this local geology over the past 12-24 months.

The Tasmania Reef is hosted in those rocks which lie between the Cabbage Tree conglomerate and the Flowery Gully Limestone. Until recently these rocks have been informally called the Transition beds or Transition sequence, a term originally coined by the early miners for reasons apparent in the descriptions given below. The Transition beds have been divided into the Upper and Lower Transition beds with the contact defined by Hills (1998b) as the uppermost pebble bed in the Lower Transition beds. Lewis (1998) has formalised the stratigraphic nomenclature for the Lower and Upper Transition beds and given the two formations the new formal names, the Salisbury Hill Formation and the Eaglehawk Gully Formation respectively. Collectively, the Cabbage Tree Conglomerate, the Salisbury Hill Formation and the Eaglehawk Gully Formation combine to form the Denison Group Correlates in the Beaconsfield district.

Lewis (1998) defines the Cabbage Tree Conglomerate as consisting of grey-light brown oligomictic pebble paraconglomerate interbedded with conglomeratic quartz arenite and fine quartz arenite. The conglomerate of the unit is very poorly sorted, and has a composition dominated by sub-angular to sub-rounded quartz, with minor chert and coarse siltstone. He describes "minor detrital pyrite, chromite, olivine and detrital Fe oxide sand" in the sandstones. The anomalous presence of chromite was noted previously (Gee and Legge, 1979) and is taken to indicate that the Anderson's Creek Ultramafic Complex was exposed and shedding material at the time of deposition of the Cabbage Tree Formation. Lewis (1998) interprets the Cabbage Tree Formation to have been deposited within an alluvial fan system by a combination of debris flow and braided stream flow by eastward directed rivers flowing across and eroding the Badger Head Group, Anderson's Creek Ultramafic Complex and associated Cambrian cherts and siltstones.

Lewis (1998) formalized the Lower Transition beds with the term Salisbury Hill Formation and defined it as *a sequence of dark grey-black quartz arenite interbedded with oligomictic granule-pebble (para- and ortho-) conglomerate and granule conglomeratic quartz arenite. It is divisible into five members based upon the abundance of conglomerate: the 2SC, 2CG, 1SC, WET and PEB. Conglomerate of the Salisbury Hill Formation is poorly sorted and consists of sub-rounded to rounded quartz and minor chert, coarse siltstone, 'rip-up' mudstone and Fe oxidised mudstone/chert clasts.* The top of the Formation remains as defined by Hills (1998b).

The 2SC member consists of dark grey-black quartz sandstone containing minor dark grey granule (-pebble) paraconglomerate and granule (-pebble) conglomeratic sandstone interbeds.

The 2CG member consists of granule-pebble conglomerate interbedded with granule-pebble conglomeratic sandstone and fine and medium quartz sandstone.

The 1SC member consists of dark grey-black fine and medium sandstone containing interbeds of very minor granule conglomerate, and granule conglomeratic sandstone.

The WET member consists of interbedded granule-pebble conglomerate, granule conglomeratic sandstone and dark grey fine and medium sandstone.

The PEB member consists of calcareous grey/grey-green quartz sandstone and grey/grey green and dark grey quartz sandstone, containing minor pebble layers, and very minor limestone beds. Lewis (1998) does not state the correlation but by his definition places the top of the quartz arenite and conglomerate bearing Salisbury Hill Formation at the uppermost pebble bed.

Hills (1998b) presented a section through the same sequence without formally defining them. There correlation between Hills (1998b) and Lewis (1998) is quite clear (figure 3) with Lewis simply subdividing the sequence further. Lewis (1998) describes and defines a 2CG member status to a middle conglomerate unit, i.e. between the WET member and the Cabbage Tree Formation. The WET member is the same as Hills (1998b) Wet Beds member, so named by the early miners from the high water inflows encountered when the unit was intersected by development. Similarly Hills (1998b) Sandstone and Pebble Beds member is a direct correlate of Lewis (1998) PEB member.

Lewis (1998) defines the Eaglehawk Gully Formation, equivalent to the Upper Transition beds, as *a sequence of grey/grey-green quartz arenite interbedded with light grey, stylolitised bioclastic grainstone. It has been divided into six members mainly by variations in limestone abundance: the 2SL, 3LS, 1SL, 2LS, HLS and 1LS. The quartz arenite decreases in grainsize with decreasing depth and is calcareous in the upper two and lower two members. The limestone contains bioclasts of Nuia, echinoderms and brachiopods and minor grapestone within sparry calcite cement.*

The 2SL member consists dominantly of calcareous grey-green quartz sandstone, with grey/grey-green quartz sandstone, and two minor int3ervals of (8%) stylolitised grey limestone.

The 3LS member consists of interbedded calcareous grey quartz sandstone and (23%) stylolitised light grey limestone.

The 1SL member consists of grey-green quartz sandstone containing very minor interbeds (2%) of stylolitised light grey limestone.

The 2LS member consists of dominantly calcareous grey-green quartz sandstone interbedded with (19%) stylolitised, light grey limestone.

These four members are combined in Hills (1998b) lowermost Siltstone, Sandstone and Stylolitic Limestone member.

The HLS member consists of stylolitised and occasionally haematised, light grey limestone interbedded with grey/grey-green very fine calcareous sandstone and (10-20%) chloritised dark grey very fine quartz sandstone. This is equivalent to Hills (1998b) Calcareous Siltstone member.

The uppermost member is the 1LS member. It consists of interbedded light brown, calcareous quartz siltstone-sandstone and stylolitised, light grey limestone, of which the latter accounts for 60% of the member. This is equivalent with Hills (1998b) Siltstone and Limestone member.

A conodont biostratigraphy constructed for the Eaglehawk Gully Formation determined a stratigraphic range for the Formation from Middle Tremadoc to Upper Arenig. This is consistent with macrofossil correlation determined by Laurie (1996) The upper contact of the formation with the overlying Gordon Group at Beaconsfield is Middle to Upper Arenig on fossil evidence.

Two kilometres south of the mine on adjacent EL 20/94, the Middle Arm Gorge road cut on the Flowery Gully Road exposes a basalt unit with brecciated and peperitic textures indicating that it was a very shallow sill which intruded wet unconsolidated sediments. It is immediately underlain by a localised unit of green sandstone, clearly (on lithogeochemical grounds) derived from the basalt which must have been exposed and shedding fine material probably hyaloclastically. The intercalated sediments are from the lower part of the Eaglehawk Gully Formation, approximately one third of the way up from the base of the Formation. Lithogeochemcially the basalt is best described as being a transitional alkali - tholeiite from an intraplate setting. The high Ti of the basalt is not reflected in the sediments of the Eaglehawk Gully Formation. This is illustrated in figure 5. SHRIMP U-Pb isochron dating of zircons from the basalt is currently in progress.

Overlying the Eaglehawk Gully Formation is the Flowery Gully Limestone. This unit is a pure stylolitic limestone of deep water origin (Hills, 1998b). It is light grey in colour and of fine calcarenite grade and recrystallised (Lewis, 1998). This unit is approximately 170 metres thick in the vicinity of the mine. Overlying this unit is the Grubb Shale (Green, 1959), a black graphitic shale at least 30 metres thick. Together these two units form the Gordon Group equivalents in the Beaconsfield district. The eastern boundary of the Grubb Shale is the Cobblestone Creek thrust.

A comparison of the stratigraphy as compiled by Hills (1988b) and Lewis (1988) for the conformable Denison and Gordon Groups in the vicinity of the Tasmania Reef is illustrated in the figure below. The stratigraphy of unconformable and disconformable lithologies remains unchanged from Hills (1998) and is not shown.

Hills (1998b)				Lewis (1998)				
Formation	Stratigraphic Unit	Subunits	Thickness (m)	Group	Formation	Member	Unit	Thickness (m)
Flowery Gully Formation	Grubb Shale		30	Gordon group	Grubb Shale			30
	Flowery Gully Limestone		170		Flowery Gully Limestone			170
Cabbage Tree Formation	Upper Transition Beds	Siltstone and limestone	40	Denison Group	Eaglehawk Gully Formation	1LS		50
		Calcareous siltstone	20			HLS		30
		Siltstone, sandstone and stylolitic limestone	120			2LS		40
						1SL		80
						3LS		20
						2SL		25
	Lower Transition Beds	Sandstone and pebble beds	20		Salisbury Hill Formation	PEB	PSL	10
							PSS	10
							PSB	5
		Wet beds	10			WET		20
		Sandstone, grit and pebble conglomerate	90			1SC		20
						2CG		40
						2SC		50
	Cabbage Tree Conglomerate		50		Cabbage Tree Conglomerate			55

Figure 3. comparative stratigraphic nomenclature of Hills (1998) and Lewis (1998) for the Denison and Gordon Group correlates in the vicinity of the Tasmania Reef, Beaconsfield.

The only Formation represented in the Cabbage Tree slice not yet discussed is the basal Blyth's Creek Formation.

The Blyth's Creek Formation is intersected in a limited number of generally deep diamond drill holes. The rocks of this unit were also worked in the Bonanza Shaft to a depth of approximately 300+ metres. In core the Blyth's Creek Formation is essentially defined to be those rocks lying beneath the Cabbage Tree Conglomerate. They occur as grey to dark grey siltstones and/or very grey but occasionally apple green or burgundy red stylolitic limestones with occasional distinctively apple green spotted quartz pebble conglomerates. The apple green colour is due to chromite grains, now oxidising, in the matrix. The base of this unit is sheared where intersected. The fault is associated with characteristically green serpentinite with carbonate veining/alteration and disseminated magnetite and/or a reddish orange dolomite. Petrological study of a very similar serpentinite elsewhere in the area suggests that these rocks are the products of alteration of coherent (at least in part) ultramafics. Alteration may be early diagenetic and perhaps associated with Ca and Mg rich fluids or may be associated with thrust faulting. The serpentinite is strongly sheared whilst the dolomite is more competent. Previous descriptions have the serpentinite as a dyke or a fault. Its origin is unclear, however, it is unlikely to include an option as a dyke. In the helimagnetic interpretation, it has been assumed that the serpentinite is associated with thrusting.

The fault in the serpentinite at the ends of B13 and B32 is quite possibly the basal thrust to the Cabbage Tree slice. Given a modest arcuate shape an east dipping structure intersected in these holes may correlate with a clearly major shear zone along the western base of Cabbage Tree Hill. Such a structure has been documented in Montgomery (1892) and particularly his Plan 3 showing the drive west on the No. 5 level cross-cut, 422' below the collar of the Moonlight shaft, at around 100 metres R.L., i.e. ~40 metres below sea level. This cross-cut intersects a 10 metre wide zone of soft black slate ('pug') immediately underlying dark bluish and black grits and sandstones (Montgomery, 1892) of the Salisbury Hill Formation. Immediately west of this pug the rocks are shown by Montgomery (1892) as very black much jointed slate with faces of joints often brightly polished. Montgomery's plan shows the rocks west of this latter unit to be fine grained black sandstones and dark clay-slates.

Rocks from these fine grained black sandstones and dark clay-slates, mapped as Cambrian by Gee and Legge (1979) were included in the sampling for trace element lithogeochemistry. Figure 6 shows the results for Ni and Cr. The unassigned Cambrian(?) rocks have a clearer affinity with the Devonian Corn Hill Beds to the south along strike and not with demonstrably Cambrian trilobite bearing siltstones and sandstones in the Cobblestone Creek slice. These apparent correlations are supported by the low levels of Cr and Ni especially in the sandstones of the unassigned Cambrian(?) Rocks. Under previous interpretations these unassigned Cambrian(?) rocks have been included in the Cabbage Tree slice while the trilobite bearing Cambrian sediments are from the Cobblestone Creek slice. As discussed elsewhere there is evidence that the source of much of the sediment in the clastics in the Ordovician was derived from the general west. In this interpretation the Cambrian(?) sediments lay between the high Ni and Cr trilobite bearing siltstones and sandstones and the Anderson's Creek Ultramafic Complex, quite probably the source of the Ni and Cr in the sediments, yet themselves have very low levels of Ni and Cr. This evidence as well as the macroscopic similarity of the rocks and marked simplification of the geology is considered more than justification of reinterpreting the age and association of these rocks. They lie north-northwest along strike from the Corn Hill Beds on Bulls Road and are hence simply a continuation of that unit. The relationship between the Corn Hill Beds and the Flowery Gully Limestone sub-cropping east of Peaked Hill is unknown but might be an unconformity

The above interpretation requires a thrust between Cabbage Tree Hill and these Corn Hill Bed 'correlates' on Leviathan Hill.

The upper bounding thrust is the Cobblestone Creek Thrust. The fault itself is placed at the top of the Grubb Shale and beneath the polymict conglomerate unit. Inspection of drill core indicates that the top of the black shale is sometimes apparently conformable with the polymict conglomerate with the strongest shearing located within the shale unit. It is possible that some of the black shale is actually basal to the conglomerate though for the most part the shale is clearly conformable with the underlying Flowery Gully Limestone. The polymict conglomerate is associated with finer grained shales and siltstones to the south in Middle Arm Creek (Dally's Siltstone) and at Salisbury Hill.

The polymict conglomerate is strongly sheared and attenuated. Macroscopically the sense of shearing agrees with an east side up movement on a moderately east dipping structure. The limestone and calcareous sediments overlying this unit are correlated with the Blyth's Creek Formation limestones in the underlying Cabbage Tree Hill slice. Individual sections of core are macroscopically similar in appearance with the Eaglehawk Gully Formation. The grey to grey-green quartz sandstones intersected in the upper part of DDH B8 and the outcrop of medium to coarse sandstones on Lightwood Hill to the south of Middle Arm Creek and east of the highway, is correlated with the siliclastics of the Transition Beds on lithological grounds. Detailed correlation remains unclear and requires some verification though more exposure of the section.

Lewis (1998) interprets the palaeoenvironment of deposition of the Cabbage Tree Conglomerate, Salisbury Hill and Eaglehawk Gully Formations in the Cabbage Tree slice as follows. "The Cabbage Tree Conglomerate and the members of the Salisbury Hill Formation represent a repetitive alternation between alluvial fan and broad braided fluvial depositional systems. These systems were derived from an eastward directed river(s) originating on the Badger Head Block to the west of Beaconsfield, which passed over a thin Cambrian slice, and the Anderson's Creek Ultramafic Complex collecting sediment along the way. The Eaglehawk Gully Formation was deposited within a transgressive tidal flat-carbonate barrier system, with a palaeo-shoreline striking approximately north-south".

4.4 STRUCTURE

The structure of the region was the principal focus of the work by Elliott et. al. (1993). Their interpretation agrees with the geological evidence available and is accepted as the regional structural framework. Essentially Elliott et. al. (1993) recognised four major episodes of faulting. The earliest occurred in the Late Cambrian and was characterised by east dipping, west directed thrusting bringing together the Port Sorell Formation, Badger Head Formation and the Anderson's Creek Ultramafic Complex and associated Cambrian cherts and siltstones. There followed a period of sedimentation during which the Ordovician to Silurian rocks were deposited. The next phase of deformation took place in the Middle Devonian and was characterised by further west directed thrusting focussed on the existing thrusts. Gold mineralisation in the northeast of Tasmania was also associated with this event. Following deposition of the Permo-Triassic sediments and widespread intrusion of Jurassic dolerite the third phase of faulting occurred. This was characterised by extensional faulting associated with the formation of grabens at Port Sorell and the Tamar Valley. The fourth phase is characterised by compressional oblique slip structures in Permo-Triassic and Jurassic rocks.

The Late Cambrian thrusting event correlates with the Delamerian Orogeny (Berry, 1994). The Middle Devonian event correlates with the Tabberrabberran Orogeny.

The deformation suffered by the pre-Middle Devonian rocks is expressed as faults with little significant folding.

The deformation is manifested differently between rocks of different strength. The finer grained Cambrian siltstones in Middle Arm Creek and the shales and siltstones of the Corn Hill Beds west of Cabbage Tree Hill have a moderately to well developed slaty cleavage generally dipping steeply to the east-northeast. The coarser, siliciclastic, Cabbage Tree Conglomerate, Salisbury Hill and Eaglehawk Gully Formations are strongly jointed.

The major thrusts themselves are generally poorly exposed. As noted the Cobblestone Creek Thrust is intersected in some of the deeper targeted diamond drill holes i.e. A3, B8, B14, B25 and B30. The Cabbage Tree Thrust is considered to outcrop at the western end of the Middle Arm Gorge on the Flowery Gully Road and be intersected by the west cross cut on the 422' level of the Moonlight Mine as well as at the ends of B13 and B32. The existence of another thrust is generally inferred by the occurrence of older rocks overlying younger rocks.

Hills (1998b) describes the principal joint sets in the mine sequence rocks as averaging 72/291 (AMG) and 64/166 based upon underground mapping. This apparently conjugate set is bisected by the orientation of the Tasmania Reef which Hills (1998b) describes as being 60/131. Although the shales and siltstones to the east and west are generally cleaved they are occasionally jointed with joint orientations consistent with those in the mine sequence rocks. The jointing is most probably Middle Devonian in age and related to a compressional regime at the time of formation of the Tasmania Reef structure.

Further mapping underground in new development indicates that there are three sets of faults. The age relationship of the earlier two sets is unclear but may be coeval. These two sets have similar orientations but largely antithetic senses of movement. The faults strike east to northeast, though predominantly east-northeast, and are sub-vertical. Dragging of bedding and rarer quartz and/or carbonate fibres record oblique slip of either combined dextral normal movement or sinistral reverse movement. The former are more common than the latter. Many of these structures carry narrow (generally in the order of a few centimetres) veins which are often sulphidic and can be gold bearing. The Tasmania Reef is considered to be an example of the dextral normal type. Both fault sets are considered to be Middle Devonian in age.

The east drive on the 375mL passes through 14 of these veins over 150 metres between 150 and 300 metres in the hangingwall to the Tasmania Reef.

The third set of faults strikes north to north-northeast and is sub-vertical with oblique slip apparently made up of dextral strike slip and a lesser normal dip slip component. This set is analogous with other north to north-northwest trending faults elsewhere in the northeast of Tasmania which have been interpreted to be Middle Devonian in age (e.g. the main slide at Mathinna; Keele, 1994).

The evidence underground is in agreement with Richard Keele's mapping of the Temco Quarry (Hills, 1997) where he recognised numerous north-northeast to north-northwest striking dextral faults (a dip slip component is unstated but may not be significant) as well as two east-northeast striking sinistral structures. The north trending dextral set is also represented by the main slide. The relationship of the second slide to this grouping is unclear considered against Montgomery's (1892) discussion of the possible location of the Tasmania Reef west of this second slide.

4.5 MINERALISATION

The Tasmania Reef is a quartz + ankerite + gold + arsenic + chalcopyrite + sphalerite + minor galena reef of mesothermal type. The reef is approximately 320-350 metres long and averages 3 metres in width (Hills, 1998b). It is analogous in many ways to mesothermal slate belt deposits in northeastern Tasmania, Victoria and elsewhere in the world. The main difference is the actual host rocks themselves.

The reef shows evidence of multiple openings and movement on the same structure with both laminated textures, defined by carbonaceous and/or sulphidic material in sub-parallel seams, and brecciated textures, with sulphide and/or ankerite infilling (healing) common. As discussed earlier there are a number of sub-parallel structures in the underground development which also carry lower levels of gold (generally a few g/t Au at best) and are considered to have formed at the same time as the Tasmania Reef. The South Lode is an example of one of these. Further afield the North Tasmania reef is considered to be of the same style and origin as the Tasmania Reef. However, in contrast with Lefroy for instance, the number and size of these sub-parallel structures is somewhat limited.

Gold occurs both as coarse particulate free gold in quartz and ankerite and intimately associated with the sulphides, particularly arsenopyrite. The deposit is relatively silver poor hence the relatively high fineness of around 937 (Russell and Van Moort, 1992).

5. *EXPLORATION PHILOSOPHY*

The Tasmania Reef is a quartz+ankerite+gold+arsenic+chalcopyrite+sphalerite+galena reef of mesothermal type. The reef strikes in a northeasterly direction and dips moderately to the southeast. It is hosted within the carbonaceous sandstones, grits and pebbly conglomerates of the Salisbury Hill Formation and the calcareous sandstones and siltstones and interbedded limestones of the Eaglehawk Gully Formation.

The reef is apparently not well developed in the Cabbage Tree Conglomerate which stratigraphically underlies the Salisbury Hill Formation, nor in the Flowery Gully Limestone which stratigraphically overlies the Eaglehawk Gully Formation. There is some historical evidence that a zone of auriferous quartz veining in the Bonanza Shaft may be the Tasmania Reef structure in the Blyth's Creek Formation which underlies the Cabbage Tree Formation.

The controls upon deposition of gold within the reef structure are uncertain. There are two principal options, these being either the relative ductility of the host rocks (relative to adjacent rocks) or the chemistry of the host rocks.

The mine sequence rocks are very brittle, particularly the sandstones in the lower approximately two-thirds of the mine sequence, often breaking with a conchoidal fracture when not along a joint plane. Deformation within these rocks is characterised by the extensive development of jointing. Chemically the host rocks are bimodal. The lower part of the mine sequence, corresponding approximately with the Salisbury Hill Formation, is carbonaceous and indicates a reduced assemblage, whilst the upper part of the mine sequence contains carbonate, indicating an oxidised assemblage.

It is likely that both relative ductility and chemistry have exercised some control over the deposition of gold. A strong correlation between higher arsenic levels in the Reef and in the Eaglehawk Gully Formation argues for some form of chemical control, whilst the lack of significant mineralisation within the Flowery Gully Limestone argues for some structural control.

The structure within which the Tasmania Reef lies has undergone an apparent dextral movement of around 40 metres though there is also evidence for a normal strike slip component to this displacement. The deformation responsible for the formation of the Tasmania Reef is considered to be the Middle Devonian Tabberrabberran Orogeny with the Tasmania Reef structure opening under a roughly northeast/southwest principal stress regime.

There is evidence of mineralisation in a number of other orientations than that of the Tasmania Reef.

- The North Tasmania reef strikes more 080°, dipping moderately southwards. This vein is quite sulphidic, particularly rich in chalcopyrite.
- Mineralisation in the Moonlight-cum-Wonder workings has a wide range of orientations (including sub-horizontal and both north-south and east-west striking) along a trend which strikes north-north-westerly, parallel to the regional strike. The old workings at Salisbury Hill 6 km south-southeast from the Tasmania Reef, dip shallowly to the west and are hosted within quartz sandstones and grits in the hangingwall to a thrust? contact with ultramafics.

- A drill hole passing through the contact between the Anderson's Creek Ultramafic Complex and cherty siltstones on Dan's Hill on the very western boundary of the hill intersected 3m @ 1g/t Au in a carbonaceous arsenopyritic quartz vein.
- There are old workings on quartz veins within the Devonian Corn Hill Beds on EL 20/94 (though there is no significant evidence for gold mineralisation within these veins).
- Given a northeast/southwest principal stress orientation there are a number of settings in which gold mineralisation may be expected.

East of the Tamar River auriferous reefs of the Lefroy Goldfield strike approximately 080 and are arranged in an en-echelon pattern along a 5km long north-north-west trending zone. Although the Lefroy reefs are hosted within the Siluro-Devonian Mathinna Beds the structural setting is very similar in orientation to the Tasmania Reef.

Thus the perceived trap for gold mineralisation is structurally dilational zones under a northeast/southwest principal stress regime in the Middle Devonian. Any rocks older than this may be mineralised but empirically the ideal trap rocks are the Salisbury Hill and Eaglehawk Gully Formations, the "Transition beds".

The source of the gold is considered to be the devolatilisation of metamorphic rocks at depth, probably greenstones. There has been some suggestion that the Anderson's Creek Ultramafic Complex may be the source, or associated with the source of the gold. Leaman (Appendix 5) shows the presence of a mafic/ultramafic body at depth to the east of the Tamar River.

The deformation in the Middle Devonian involved westward directed thrusting. This thrusting is considered to have occurred during or just prior to the opening of the Tasmania Reef structure. The thrusts are therefore likely to have played a role as fluid conduits. If this is the case it is not necessary that all thrusts acted as conduits though such is a reasonable proposition. Only the thrust beneath the Cabbage Tree slice has established its pedigree as a mineralising structure.

Empirically the ideal place to look for Tasmania Reef style mineralisation is within the Transition beds along the Cabbage Tree slice. Analogous structural and lithological settings may lie along the Cobblestone Creek slice to the east and the very small area of the Dan's Hill slice in the west of the licence area.

Mineralisation does occur with a range of other orientations within both the Transition beds and other rock units. To date these have not proven to be economic.

Exploration is influenced by the fact that the Transition beds in the Cabbage Tree slice have either been picked over comprehensively by early prospectors or are under shallow cover rocks. Exploration must therefore be deeper looking, either to get beneath the area worked by the prospectors or to look beneath the cover rocks. Although overlapping fences of RC holes are a logical first approach, the expense means that some form of focussing is required.

In areas of outcrop soil geochemistry may be of assistance in locating sub-cropping mineralisation. Pathfinder elements are likely to be more useful than the less mobile gold. Arsenic is particularly mobile and may create a relatively broad geochemically anomalous halo around a mineralised structure. Care must be taken in sampling and interpreting the data to take account of the proximity of old workings and the location of the anomalies topographically.

Although the favourable host rocks are essentially non-magnetic, high resolution low altitude aeromagnetics is perhaps the only tool available to help in recognising structure beneath cover.

> The Tasmania Reef is associated with a number of much smaller mineralised structures and any anomalous intersections, however small, may be reflecting the proximity of more major structures.

6. *WORK COMPLETED AND RESULTS, 1998*

6.1 GEOLOGY

6.1.1 Introduction

A principal focus of the work in the last couple of years has been to come to a better understanding of the geological setting of the Tasmania Reef and its host rocks to aid exploration. The conclusions from this work are included within sections 4.2 Regional Geology and 4.3 Local Geology.

Honours students have completed two projects in this time. Parry (1997) studied the structural setting of the reef and the host rocks as well as carry out petrological and sulphur isotope work on the reef and trace element lithogeochemistry, infrared spectroscopy and carbon/oxygen isotope work on the associated alteration.

Lewis (1998) focussed on detailing the sedimentology and lithostratigraphy of the Denison Group correlates, i.e. the mine sequence. He also carried out some palaeontological work on the sequence describing the conodont biostratigraphy. His work is backed up by a number of thin sections, many photographed in his thesis. His conclusions are discussed extensively and form the basis for section 4.3 Local Geology.

Further work has been carried out by BMJV geologists. This work has consisted of a detailed trace element lithogeochemical sampling programme with samples collected from drill core throughout the mine sequence (from drill holes on the same section as logged by Dale Lewis) as well as samples from elsewhere in the district. A number of samples have been sent for petrological analysis. Parts of the EL have been mapped in detail with other areas check mapped against earlier mapping.

Mapping underground has provided fresh exposure of the mine sequence and in particular structures within the mine area.

A reinterpretation of some significant elements of the geology as previously understood has been made and has been discussed in section 4.0 Geology.

6.1.2 Core Logging

Some short intervals of drill core from B30 and B32 were re-logged in order to complete the section through the Cabbage Tree thrust slice hosting the mine sequence (Appendix 1).

One major conclusion drawn is that the clastic unit overlying the Grubb Shale is primary sedimentary conglomerate with the sheared textures evident throughout much of the intersection due to a later tectonic event. The unit has been a focus of this subsequent deformation.

The contact between the Cabbage Tree Conglomerate and underlying siltstones of the Blyth's Creek Formation is only moderately sheared over approximately 10 cm. It is considered that there has not been any significant movement on this structure. The shear from 1241.5-1244.1 metres in DDH B32 is interpreted to be the Cabbage Tree thrust.

6.1.3 Lithogeochemistry

A lithogeochemical study was undertaken on the distribution of trace elements in the sediments in the mine sequence.

The work was suggested by the presence of chromite grains in the lower parts of the mine sequence. It was further supported by the occurrence of an anomalously high titanium basalt shedding debris into the lower part of the Eaglehawk Gully Formation in Middle Arm Creek Gorge 2 km south of the mine.

The aims of the study were threefold. The first aim was simply to aid in the understanding of the provenance and depositional environments of the sediments. The second aim was to divide the units in the mine sequence on the basis of their trace elements. This would be an aid to mapping essentially similar sandstones and siltstones in the field. Particular importance is placed on the location of the base of the Eaglehawk Gully Formation that grossly corresponds to better gold grades in the Tasmania Reef. The third reason was to attempt to distinguish macroscopically but stratigraphically discrete units eg the limestones of the Blyth's Creek Formation and Flowery Gully Formation.

Some of the samples used in this study were collected from outside of EL 7/88.

The sampling took place in two phases. The first phase involved the sampling of 90 samples of drill core (nominally 1 m lengths) and 3 samples of outcrop. Samples of mafic and ultramafic rocks from outcrop and float throughout the district were collected and analysed in this phase. The assay results from this sampling and further analysis of the results appears in the annual report for EL 20/94 for the 1997-98 reporting year.

All samples were analysed by Analabs in Welshpool, Perth, for Ti, Zr, V, Nb, Rb, Y, Ba, Sr, Sn and Cr using XRF, and Ni and Co by AAS.

Sample descriptions and locations are given in appendix 2 and the full set of results are compiled in appendix 3.

Summary results in the form of average and standard deviation for each lithological unit are given in table 1.

A second phase of sampling focussed on the finer grained rocks. A further 22 samples were collected from outcrop and drill core from the Salisbury Hill/Corn Hill area (EL 20/94). These samples were analysed for the elements La, Ce, Pr, Nd, Sm, Eu, Gd, Dy, Er, Yb, Ga, Th, Tb, Ho, Tm, Lu and Sc using ICP-MS, P, Ti, Zr, V, Nb, Rb, Y, Ba, Sr, Sn and Cr using XRF, and Ni and Co by AAS. 15 samples from the previous batch were re-analysed for the elements La, Ce, Pr, Nd, Sm, Eu, Gd, Dy, Er, Yb, Ga, Th, Tb, Ho, Tm, Lu and Sc using ICP-MS and P using XRF. 14 of these 15 samples are from drill core from EL 7/88.

The units were divided on the basis of their grainsize so that comparisons were made between similar lithotypes, hopefully removing variations due to grainsize.

None of the elements analysed for in this first batch proved useful in distinguishing any of the units. Average values for all elements are statistically similar in the Flowery Gully and Blyth's Creek Formation limestones, the one exception being Ba which is higher in the Blyth's Creek Formation than Flowery Gully Limestone.

Stratigraphic units have been divided by lithology into "shales" (all shales, siltstones and very fine sandstones), "sandstones" (all fine to coarse grained sandstones but excluding grits) and "conglomerates" (including conglomerates, pebbly sandstones and grits).

Comparisons between the same lithologies in different stratigraphic units shows that again most trace elements have average values which are essentially statistically indistinguishable, often due to the small sample size of the particular lithology in the particular stratigraphic unit.

The distribution of a number of elements shows clear correlation with grain size. Average Ti and Zr values are lower in the coarser facies of the Salisbury Hill Formation than the sandier facies. The Ti/Zr ratio is comparable indicating that both Ti and Zr are found in the finer fraction. Cr values show an opposite relationship indicating that the Cr resides in the coarser fraction.

It is the mafic indicators Cr, and to a lesser degree Ni and Co, which have the clearest variability.

Trends for Cr and to a lesser degree Ni can be seen on figure 5 where levels of these elements decrease up section as expected. Actual Ti/Zr rations remain reasonably constant throughout the mine sequence. There is no evidence for an influx of high Ti material near the base of the Eaglehawk Gully Formation.

Perhaps the most significant conclusion to come out of analysis of the results to date is the use of Cr and Ni to help resolve the stratigraphic affinities of the shales, siltstones and sandstones to the west of Cabbage Tree Hill. These have been mapped as Cambrian by Gee and Legge (1979) but Hills (1982) demonstrated that very similar rocks along strike to the south at Corn Hill are Devonian in age.

Plots of Ni versus Cr for both the "shales" and "sandstones" are shown on figures 6a and 6b. The full set of analyses for these elements is shown in appendix 3.

Cambrian shales and sandstones are from outcrop at the base of the Cobblestone Creek slice. The sandstones have Cambrian trilobite remains whilst the shales are interbedded with polymict conglomerate along Middle Arm Creek. Devonian shales and sandstones are from the fossil locality on Bulls Road (Hills, 1982). The unassigned shales and sandstones are from drill core (B48 and B49) and outcrop to the west of Cabbage Tree Hill.

Figure 6a. Cr versus Ni for all "shales"

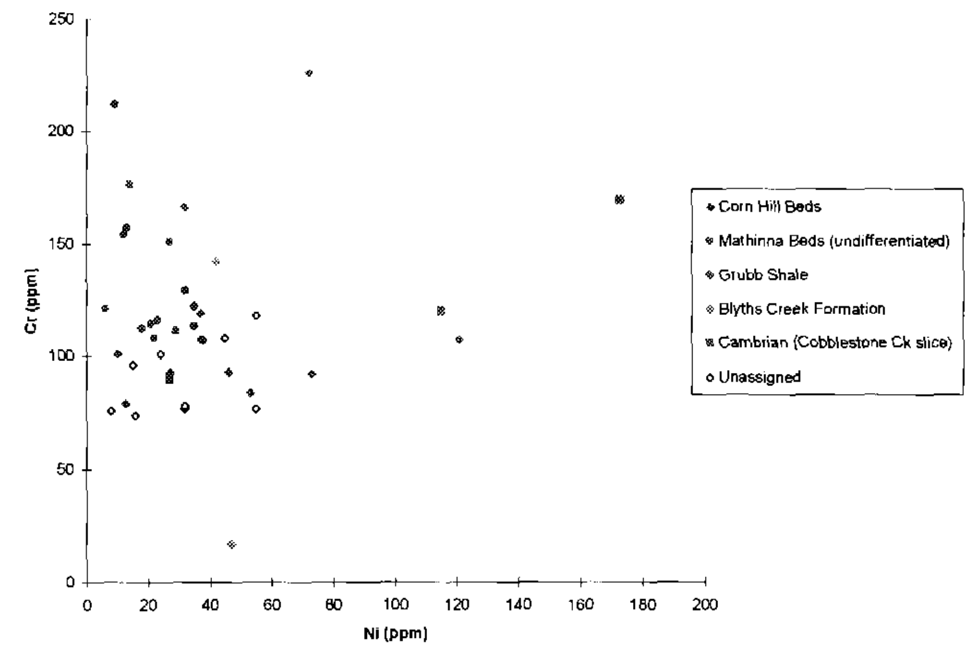
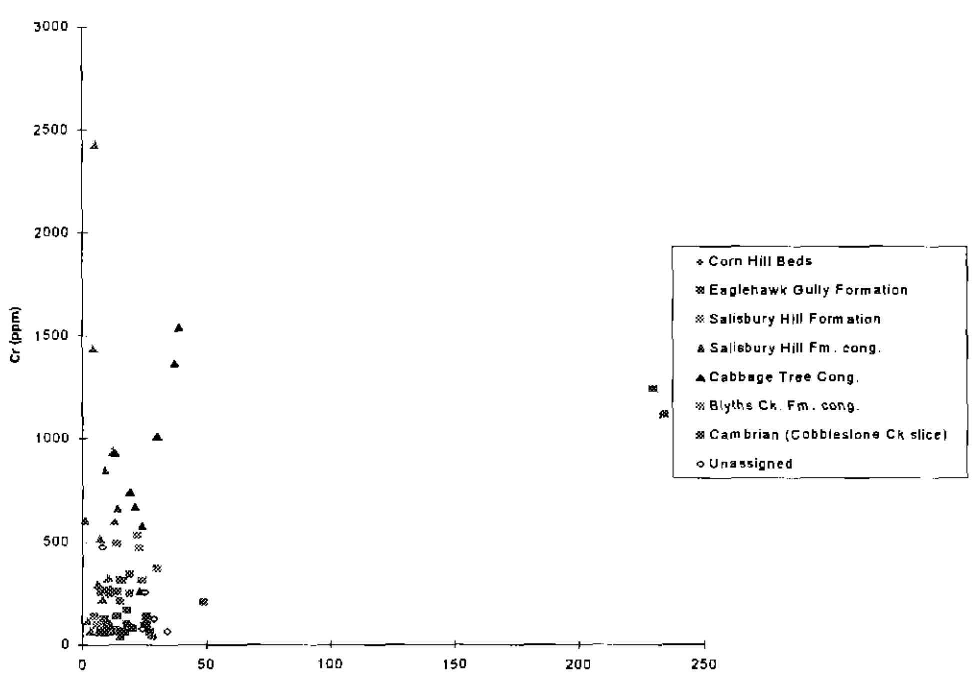


Figure 6b. Cr versus Ni all "sandstones" and "conglomerates"



In spite of the limited data the plots clearly show that the demonstrably Cambrian sediments have higher Cr and Ni than the Devonian sediments (with one exception). The unassigned sediments clearly plot near the Devonian sediments. Although based upon limited samples the conclusion that the unassigned rocks are broadly correlates of the Corn Hill Beds (though precise age correlation is not implied) is geologically more simple than the alternative Cambrian correlation. Field mapping argues very strongly for correlating the unassigned rocks with the Corn Hill Beds.

If the unassigned rocks were Cambrian they would lie within the thrust slice closer to the probable source of the Cr and Ni (ultramafics) than the demonstrably Cambrian sediments yet have lower Cr and Ni.

6.2 PEASE CREEK PROSPECT

6.2.1 Introduction

The Pease Creek prospect was discovered in 1997 by RC follow up of an anomalous result, 2 metres @ 0.16g/t Au in BRC15 drilled previously by McKeown (1995).

Drilling in early 1997 (Hills, 1997) intersected anomalous results of up to 7m @ 1.3 g/t Au in BRC29 and 4m @ 0.7 g/t Au in BRC34. Highest individual grades from 1m samples were 3.8, 2.0 and 1.6 g/t Au (from BRC29). Subsequent diamond drilling reported last year only included the results of B41 with 10m @ 5.3 g/t Au from 66.5 metres. The intersection included 3.5m @ 11.1 g/t Au. Mineralisation is hosted within a zone of sulphides and ankeritic veining. It is not a discrete quartz+ ankerite+sulphide reef as is the case for the Tasmania Reef.

Drilling has now been completed on two diamond drill sections, the second section lying 40 m to the east of the discovery section (figure 7). An oblique hole, B46, has been drilled to intersect the zone between the two sections.

Prior to further drilling it was decided to obtain high resolution magnetic data over the prospect to help in resolving the structural picture. This was to be complemented by mapping the limited exposure.

6.2.2 Diamond Drilling

A further 738.2 metres of diamond drilling was completed on the Pease Creek prospect in late 1997. This work involved the drilling of three new holes with a wedge out of one of these and a diamond tail on an earlier RC hole.

The anomalous intersection in B41 was tested by B42 (figure 9), collared on a section 40 metres east of the B41 intersection. The design of the hole was based upon an interpreted northeast trend for the mineralised zone intersected in B41. This hole had been completed by the end of last reporting year but results were not at hand. B42 did not intersect any significant mineralisation with better results 0.25 and 0.04g/t Au with As up to 213, 186 and 80 ppm. The hole did intersect a major fault from 112.2 to 128.0 metres.

B43 (figure 8) was designed as a scissor hole to cross B41 in the area of the anomalous intersection. It intersected 8.8 metres @ 1.49 g/t Au and 121 ppm As including 2.8 metres @ 2.37 g/t Au and 270 ppm As. The zone, from 45.0 to 53.8 metres, is described as quartz sandstone with limonitic boxworks after pyrite. The rock contains limonitic stains and boxworks which may be partly after ankerite veining.

BRD28 was drilled as a tail on BRC28 from 54.0 to 163.3 metres on a section 80 metres to the west of the B41 section. The hole was designed to intersect the mineralisation in B41 assuming a north-east trend. No significant mineralisation was intersected with best results 0.16, 0.13 and 0.1 g/t Au and 18 ppm As.

B44 (figure 9) was drilled on the same section as B42, 40 metres east of the discovery section. The hole was designed to test the ground south of and beneath B42. It intersected 5.9 metres @ 1.53 g/t Au and 1881 ppm As from 137.8 to 143.7 metres within a zone of intense ankerite+quartz veining in a grey to dark grey carbonaceous quartz sandstone. The intersection was down hole from a sulphidic low angle fault associated with quartz+ankerite veining and elevated Au and As.

B44a (figure 9) was wedged off B44 at a depth of 72.9m. The hole was designed to twin the mineralisation intersected in B44. The hole intersected 6.0 metres @ 1.42 g/t Au and 1111 ppm As in a zone similar to B44.

B46 (figure 9), 179.4 metres in depth, was collared from the same position as B44 but directed to intersect the mineralised zone between the two parallel drill sections. The hole intersected the mineralised zone over 4 metres @ 0.82 g/t Au and 2656 ppm As including 0.8 metres @ 1.43 g/t Au and 4274 ppm As. The mineralisation was hosted in a zone of ankerite+quartz+sulphide (pyrite+arsenopyrite) veining apparently associated with a cataclasite breccia zone in pale grey sandstones.

The intersections are summarised in table 2.

The ground at Pease Creek is particularly poor for drilling being quite brecciated and leached leading to a loss of water return and drilling in short runs. There are a number of faults logged, however, neither the significance of these structures, nor often any evidence regarding their orientation is clear.

Mineralisation appears to be hosted within the same zone of ankerite+quartz+sulphide (pyrite+arsenopyrite) veining intersected in B41, B43, B44, B44a, B46 and BRD29. If there is no structural complexity then the zone is sub-vertical and trends in a west-northwesterly direction. The intersections in B46 and B44/B44a support Gerald Purvis' interpretation made prior to the receipt of assays for B44, that "the limited data from B43 and B41 suggests the gold zone in the vicinity of these hole strikes NW-SE and has a vertical dip" (Purvis 1998 - unpublished BMJV memo).

Hole No	From	To	Length (m)	Au (g/t)	As (ppm)
BRD29	68.5	83.0	14.5	1.34	629
inc.	73.0	78.0	5.0	2.58	1107
B41	66.5	76.5	10.0	5.3	1031
inc.	73.0	74.5	1.5	21.1	1951
B43	45.0	53.8	8.8	1.49	121
inc.	45.0	47.8	2.8	2.37	270
B44	137.8	143.7	5.9	1.53	1881
inc.	138.8	140.8	2.0	2.46	3374
B44a	135.5	141.5	6.0	1.42	1111
inc.	135.5	137.0	1.5	3.50	2874
B46	150.3	154.3	4.0	0.97	2656
inc.	153.5	154.3	0.8	1.43	4274

Table 2. Summary of Pease Creek drilling results.

An alternative model has the mineralisation following the same trend as the Tasmania Reef i.e. northeasterly. If this is the case this requires two parallel north-south trending dextral wrench faults analogous to the cross-course faults in the Tasmania Mine. There are a number of similarly oriented structures mapped in the Temco Quarry on Cabbage Tree Hill to the south of the mine. In this model, intersections in BRD29, B41, B43 and B46 would intersect the zone between these faults with the B44/B44a intersection lying east of the eastern fault.

Copies of the logs of all holes drilled in this programme are included in Appendix 1.

6.2.3 Mapping

There is only limited outcrop in the area of the anomalous intersections at Pease Creek. Most of the Ordovician host rocks are under up to 50 metres of Tertiary cover. Mapping was sufficient to allow to location of the contact between the Salisbury Hill and Eaglehawk Gully Formations and confirm that bedding has a northwest to north-northwest strike and shallow to moderate northeasterly dip.

Surveying and mapping of the old pit at Pease Creek could not confirm its origin. However, Ron Morrison of Beauty Point (the owner of the property adjacent to the Crown Land on which the Pease Creek prospect lies, was able to confirm that it was used to produce sand for sugar soap. A possibility is that the sand is in fact fault gouge from one or both of the dextral wrench faults referred to above.

6.3 TASMANIA REEF OPEN CUT

6.3.1 Introduction

The Tasmania Reef open cut is an approximately 300m long, 10m to 40m wide and up to 8m deep depression running in a roughly westerly direction on the eastern side of Cabbage Tree Hill. The bulk of the open cut lies on along the outcrop of the Tasmania Reef. As discussed below the very western end possibly does not lie along the Tasmania Reef but along a separate trend of veins described as the Moonlight-cum-Wonder trend.

The initial discovery of the Tasmania Reef was made on Cabbage Tree Hill (Montgomery, 1892). The early work on the Tasmania Reef and the southern end of the Moonlight-cum-Wonder trend of veining consisted of shallow workings either as underhand open stopes or shallow adits with the backs mined out. The collapse of these underhand stopes and shallow workings has resulted in the current shape of the open cut. In this sense the open cut is not strictly an open cut in the mining sense of the term.

Nevertheless the open cut provides exposure of the weathered bedrock in the footwall and hangingwall of the Tasmania Reef (in all subsequent discussion hangingwall and footwall are relative to the Tasmania Reef unless otherwise specified) as well as the southern end of the Moonlight-cum-Wonder trend. It is considered that these shallow weathered rocks offer reasonable prospects for a shallow low grade oxide resource amenable to open cut mining. There may have been dispersion of gold in the weathered profile above the Tasmania Reef trend. As well, the Moonlight-cum-Wonder trend consists of a number of smaller veins which may not have been of economic grade and/or width for the early prospectors but which may well be so for modern mining methods. There was also a belief that the material filling the old stopes may have been of lower grade material which would now be attractive.

Early RAB and RC drilling, particularly the two line of shallow RAB holes drilled in 1979 (Bates, 1979d) gave encouragement for mineralisation in the broader footwall to the Tasmania Reef. This early RAB and RC drilling was considered to have not adequately tested the potential of the area around the open cut. There was also some uncertainty as to assay results from one of these early RC holes (RC11).

An exploration programme was therefore designed to test the immediate hanging wall rocks, the stope fill within the workings on the reef and the immediate footwall as well as the broader footwall sequence.

The work consisted of geological mapping and channel sampling along the exposed walls of the open cut, RC drilling of the hangingwall as well as attempts to drill from the hanging wall into the immediate footwall. There was also some limited RC drilling solely within the footwall.

6.3.2 Mapping

The western part of the open cut has been mapped at 1:250 with 188 structural readings. This mapping is presented as figure 11. The area coincides with the blocks of ground lying between the Main and No.2 slides (or crosscourse faults) and to the west of the No.2 slide as shown on Montgomery's (1892) Plan No.2. The open cut east of this zone is of much lower relief with only limited outcrop.

The rocks consist of variably weathered sandstones, grits and pebbly conglomerates of the Lower Transition Beds. A zone of pebbly conglomerate around TR22 may represent the Wet Beds.

The location of the No.2 slide could not be identified confidently. Montgomery's map shows the No.2 slide dipping to the west with the dip apparently shallowing near the surface. If this is the case the fault may pass just east of TR24 (TR = channel sampling traverse, see figure 12 for locations), however, there is strong jointing along TR15 striking north-south which may well be its surface expression. The main slide does not outcrop, nor is there any evidence of the same.

6.3.3 Channel Sampling

Channel samples were taken along all exposed faces of bedrock within the open cut west of the main slides projected trend. Most of these samples were collected in the upper third of the open cut as in the lower parts of the open cut most walls have collapsed or the exposed rock is scree. The density of drilling in the lower part of the open cut meant that channel samples were less crucial. Sample locations are shown on figure 12 with and gold results on figure 13 and arsenic results on figure 14.

The sampled material varied from quite hard rock to extremely weathered sand. The more weathered bedrock material was often indistinguishable from weathered scree, however, care was taken in deciding on traverse locations. Most of the exposed faces were covered with a green lichen as well as sand and plant material falling from above. Early channel samples (TR1 to TR5) collected included this material. Subsequent sampling involved the cleaning off of the exposed face with a mattock or pick though this was generally only 90% successful and some debris still found its way into most samples.

Samples were collected by chipping with a geology pick into a bag or bucket. Traverse intervals were nominally 2m and less commonly 1m long unless slightly longer or shorter intervals were more relevant (closing off traverses, crossing gaps in the exposed face etc.). Traverses were prefixed TR and run from TR1 to TR26.

No nominal sample size was selected with the 'weighting' of each individual sample considered to be of more importance. Sample sizes range from 2 - 9 kg.

A total of 257 samples were collected over 425 metres. Results were generally low, typically of the order of 0.01g/t Au. Results above 0.5g/t Au are tabulated below:

Traverse	Interval	Au (g/t)	Composite
TR2	9 – 10	0.82	
TR3	0 – 1	0.73	
	1 – 2	1.64	0 – 3m, 3m @ 1.09
	2 – 3	0.89	
	7 – 8	0.51	7 – 9m, 2m @ 0.85
	8 – 9	1.19	
	15 – 16	1.37	
TR7	22 – 24	0.56	
	24 – 26	0.92	
	26 – 28	2.24	
	28 – 30	2.27	22 - 38m, 16m
	30 – 32	1.32	@1.33
	32 – 34	0.92	
	34 – 36	1.19	
	36 - 38	1.24	
	42 – 44.7	0.54	
TR11/13 - TR7/29	~3m	5.01	
TR9	11 – 13	0.88	
TR13	0 – 2.5	3.50	
	1.2 – 2	1.0	
	4 - 6	0.7	
TR14	2 - 4	0.67	2 - 5.5m, 3.5m @
	4 – 5.5	1.39	0.98
TR21	2 – 4	0.57	

Table 3. Summary of channel sampling, Tasmania Reef Open Cut.

There are three discrete anomalous zones. The most significant anomaly lies on traverse 7 and is defined by 16m @ 1.33 and ~3m @ 5.01. These anomalous values come from very sandy weathered material largely along the northern edge of a 2m x 2m trench apparently defining the trace of the "reef" (or veining) worked in this part of the open cut.

The second anomalous zone occupies a similar position to the first and is defined by more spotty values up to 3.50 and 1.39 g/t Au on TR13 and 14. The third zone is again more spotty being defined by individual values of 1.64, 1.37 and 1.19 g/t Au. The setting of this latter anomaly with respect to the trace of the reef/veining is less clear, appearing to straddle this trend though there is no significant veining outcropping along this face.

In addition three rocks were assayed. These samples were taken from an outcropping quartz vein. TRR9/8 (collected at the 8m mark on Traverse 9) and TRR9/12.5 both returned <0.01 with TRR16/3.5 0.01g/t Au. The latter sample was taken from a tensional vein which was apparently being followed by the shallow shaft located off the northern end of this traverse.

6.3.4 RC Drilling

Ten RC holes (for 542.1 metres) have been drilled into the shallow part of the Tasmania reef, around the old open cut, from the hanging wall. Only one of these holes (BRC44) actually penetrated the old workings and extended into the footwall. The rods were stuck when being retrieved through the old workings and the rod string was lost. Similar problems were encountered with all subsequent holes. In each case the hole was stopped as soon as the rods became stuck. No further rods were lost. Hole details are presented in table 4a.

Hole	Depth (m)	Dip	Azimuth (mag)	Best results
BRC43	45	-60	330	31 - 32m, 1m @ 0.8;
				32 – 33m, 1m @ 12.2
				33 – 36m, 3m @ 2.3
BRC44	115.3	-60	330	41 - 42m, 1m @ 0.51
				66 - 71m, 5m @ 0.49
				106 – 107m, 1m @ 0.82*
BRC45	46	-60	330	25 - 26m, 4m @ 0.20
BRC46	49.8	-60	330	29 - 30m, 1m @ 0.55
				44 - 45m, 1m @ 0.42
BRC47	70.5	-60	330	30 - 31m, 1m @ 0.49
				59 - 60m, 1m @ 4.81
BRC48	32	-60	330	30 - 31m, 1m @ 0.49
BRC49	47.5	-60	330	all <=0.01
BRC50	41.9	-60	330	36 - 40m, 4m @ 0.07
BRC51	52.9	-60	330	11 - 12m, 1m @ 1.28
BRC52	41.2	-60	330	all <0.01

Table 4a. Summary of RC drilling results, Tasmania Reef Open Cut.

*NB. All anomalous intersections except for this one are in the immediate hangingwall of the reef. This intersection is in the footwall.

The only holes to intersect ore grade material were BRC43, with 1m @ 12.2g/t as part of 4m @ 4.75, and BRC47, with 1m @ 4.81. The two best intersections lie on adjacent sections (though BRC44 was also drilled on the same section as BRC43 without economic mineralisation).

There is some evidence for a hangingwall reef developing towards the western end of the old workings (more particularly in the block bounded by the slides). Quartz veined and gold anomalous intersections occur in BRC45 (4m @ 0.12g/t), BRC44 (1m @ 0.51g/t), BRC46 (1m @ 0.56g/t) and BRC47 (1m @ 4.81g/t). This hangingwall zone lies approximately 30m south of the Tasmania reef.

The intersection in BRC44 at depth (106 - 107m, 1m @ 0.82g/t) may represent the northern branch of the Tasmania reef as seen in the Florence Nightingale section (see discussion of BRC54 below). However, given the apparent divergence of the two branches westwards this intersection may be too close to the Tasmania reef main branch.

Two further RC holes (for 107 metres) were drilled along the track that runs immediately to the west of the mine compound towards the hospital (Line 1 from Allstate Exploration NL 1979 RAB traverses). The holes were drilled to follow-up reported anomalous results from RAB and/or RC drilling.

BRC53 was drilled on the northern end of this traverse to follow-up 1.5m @ 25.9 g/t from 6 - 7.5m, in RB89. The best results from BRC53 were 0 - 1m, 1m @ 5.11 g/t and 4 - 5m, 1m @ 15.85 g/t suggesting that the original result was from scree or contamination. Interestingly the 4 m composite for this zone was only 0.81g/t suggesting a fairly strong nugget effect.

Similar gold bearing material was intersected further south in old RAB holes RB2 to RB8 where it is described by Bates (1979a) as a sub-horizontal lateritic blanket up to 5 metres thick at a depth of 6 metres. A similar pattern can be seen at the northern end of this line where the anomalous values broadly correlate with the lower unit of Bates (1979a) laterite sequence and in particular his L4 unit of bright orange to yellowish orange and orange soft silts and silty sand with fluffy texture.

Although the 15.85 g/t intersection in BRC53 is described as a strongly oxidised, greyish orange sandstone with minor grit and 2% quartz the zone lies near the base of the zone interpreted to be either contamination or scree (due to the presence of grits). This result confirms the original intersection and indicates the potential for a shallow oxide resource.

BRC54 was designed to follow-up anomalous results initially defined by RAB holes RB9 (18 – 27, 9 m @ 3.2 g/t inc. 19.5 - 21, 1.5 m @ 6.2 g/t) and RB10 (18 - 19.5, 1.5 m @ 2.5 g/t). This was partly confirmed by RC3 (9 – 11, 2 m @ 1.24 g/t and 33 - 35, 2 m @ 2.7 g/t) and RC2 (5 - 7, 2 m @ 6.64 g/t; 13 - 15, 2 m @ 1.56 g/t and 23 - 25, 2 m @ 1.21 g/t). BRC54 intersected 4.41 g/t from 29 to 33m. The zone is quite consistent with individual assays of 6.13, 4.07, 2.49 and 4.96 g/t Au down hole respectively.

Bates (1979a) discusses the results of the RAB drilling as follows: "When the holes on line 1 are projected south onto section DD it appears that the blanket shaped zone centred on RB5 and RB6 is just above the main working in the Florence section on the Tasmania reef. The anomalous zone in RB9, 10 and 11 is most probably related to workings above No. 2 level in the Florence section on a branch vein of the Tasmania reef. No mineralisation is indicated in a footwall cross-cut from the No. 3 level Florence in the area beneath this anomaly, so it is most likely related to the higher workings unless it is near the west end of an unworked vein with a strong easterly plunge".

It is considered likely that BRC54 has intersected this northern branch of the Tasmania reef though there are some discrepancies between the expected trace of this branch and the intersections. These discrepancies can best be explained by uncertainty in the location of old workings and early drilling. Proposed follow-up drilling, while based around the interpretation that the intersection is this branch, is empirically sound in that it is designed around a steeply southwesterly dipping, broadly southwesterly striking reef (i.e. analogous with the Tasmania reef). Summary details of this drilling are presented in table 4b.

Hole	Depth (m)	Dip	Azimuth (mag)	Best results
BRC53	54	-60	327	0 - 1m, 1m @ 5.11
				2 - 7m, 5m @ 3.7
			inc.	4 - 5m, 1m @ 15.85
BRC54	53	-59	319	29 - 33m, 4m @ 4.41

Table 4b. Summary of RC drilling results, Florence Nightingale area.

6.4 MAGNETICS

6.4.1 Introduction

The use of magnetics as a tool in exploration for gold in the Beaconsfield area is outlined in the Exploration Philosophy section. The utility of such a data set is clear, particularly given the areal extent of shallow more recent rocks covering the potentially mineralised sequence.

There were a number of questions requiring resolution in order to determine the most effective approach to acquiring such a data set. Firstly it was necessary to determine as to whether the potentially mineralised rocks in the Beaconsfield area have any magnetic character which may reflect structural dislocations potentially hosting gold mineralisation. Secondly the exisitng aeromagnetic data needed to be appraised in order to determine whether a new survey was justified. Following the recommendations of Leaman (appendix 5), a new data was acquired and interpreted and forms the basis of recommended future exploration.

6.4.2 Drill Core Magnetic Susceptibility

Six diamond drill holes (B13, B23, B26, B32, B36 and C37) were surveyed for magnetic susceptibility in order to determine if there is any magnetic character in the sequence which may help in understanding and interpreting the helimagnetics and ground magnetics surveys.

The six holes examined were the same holes which were logged by Dale Lewis for his Honours research as well as being those sampled for the lithogeochemical study (the sampling and magnetic susceptibility work was carried out concurrently). These holes were chosen as they provide the fullest cross-section through the mine sequence in the mine area.

Magnetic susceptibility readings were taken at a nominal spacing of 3 m in more homogenous sections and 1 m in more heterogeneous sections of the holes and areas with magnetic character determined from the 3 m readings. In the more magnetic sections further infill readings were taken.

Down hole magnetic susceptibility profiles are shown on figure 4.

As expected, the most magnetic unit is the serpentinite in the bottom of B32 which contains flecks of magnetite ranging up to 5mm long. As discussed earlier this rock is probably a serpentinised ultramafic at the base of, or immediately underlying, the Blyth's Creek Formation. It has a maximum magnetic susceptibility of 7.25×10^{-3} SI.

Moving up sequence the limestones and shales of the Blyth's Creek Formation have no magnetic character. Nor has the Cabbage Tree Conglomerate or the Salisbury Hill Formation.

The Eaglehawk Gully Formation has some subtle but discernible magnetic character. The more magnetic zones lie near the base and approximately two thirds of the way up the Formation. The zones do not strictly follow any formal divisions within the Formation except for the haematitic carbonate rich rocks (HLS member; Lewis, 1998) which are responsible for the upper zone.

The lower zone corresponds in part to a dark greenish grey sandstone, undifferentiable from non-magnetic sandstones immediately adjacent to it. This magnetism may be due to fine detrital magnetite though this is conjectural. A lithogeochemical sample from this zone in B13 contains relatively high Ti though not the maximum value for the Formation.

There is significant variation in magnetic susceptibility down dip with the magnetic susceptibilities lower in the holes that intersect the Formation deeper.

The Flowery Gully Limestone and Grubb Shale have no magnetic character, nor does the Cambrian polymict conglomerate in the base of the Cobblestone Creek thrust slice.

6.4.3 Aeromagnetics Interpretation

Leaman (appendix 5) was contracted to analyse the quality of the existing aeromagnetics data for the Beaconsfield area and EL 7/88 in particular. The existing data set includes a statewide (AGSO) survey, central and northern Tasmania (Conga Oil) survey and the April 1988 Austirex survey flown for Beaconsfield Gold Mines Limited, the then operators of EL 7/88. This survey was a fixed wing survey with nominal ground clearance of 150 metres and east-west flight lines at spacings of 150-200 m.

Only the latter survey is able to provide any resolution of structures at a scale significant for exploration on EL 7/88.

Leaman (appendix 5) carried out some preliminary processing of the data which he believes does map some formation boundaries and suggest some fracture systems. However, he states that fine detail, in the generally delicate magnetic terrain east of the Anderson's Creek ultramafic complex, has simply not been observed consistently or completely due to the substantial terrain clearances (in excess of 120-150 m) and line spacings (of 150 m or more). He goes on to summarise the data as follows. "Enough detail has, however, been observed and preserved to suggest some key trends in local fracture systems; N-S, NNW, NE, NW, ESE. Residual processing of the giant anomaly related to the mafic complex has suggested that this complex has been sheared and compounded near the northing of Beaconsfield. A complex fracture net has been identified on the eastern side of the compounded zone. Most known mineralisation is also restricted to this limited zone. The sinistral offset pattern coupled with conjugates and intersecting formation boundaries and transverse fractures is consistent with an actively rejuvenated zone which might well have focussed fluids at various times in its development. No character specific to known vein systems can be resolved with existing data."

Leaman (appendix 5) recommended the acquisition of a new high resolution magnetic data set as well as a regional, but relatively detailed gravity survey. He states that the magnetics is likely to require a two-part treatment with low level, high density aerial coverage west of the town of Beaconsfield and a high density ground coverage in the town area and east of the town. The two surveys will require merging after modest processing of the ground data. This type of two method treatment should reveal structural and unit controls in the area, regardless of cover, and the addition of the gravity data will allow a weighting and ranking to be assigned to features identified so that ground exploration or drilling can be located optimally. His recommendations regarding the acquisition of new high resolution magnetic data were acted upon and are detailed below. No gravity surveying has been planned at this stage.

6.4.4 Helimagnetics

Universal Tracking Systems of Perth, W.A., were contracted to carry out the acquisition of a new high resolution magnetic data set using their Jetranger helicopter "Stinger" system. The survey was carried out on Tuesday 2nd June 1998. Prior to flying the survey all local landholders and occupants within the area of the survey were contacted and asked for permission to fly an aircraft at low altitude across their land. This permission was obtained from every affected landowner or occupant in writing. Permission was also sought and received from the

Lithological unit	No. Samples		Ti	Zr	Nb	Rb	Y	Ba	Sr	Sn	V	Ni	Cr	Co	Ti/Zr
Corn Hill Beds	5	Ave	3960	176	16.6	204.2	28.8	2366.6	18.8	6.4	121.4	28.2	92.8	<6	22.9
Shales		Std Dvn	329	27.4	2.7	34	3.6	2023	4.5	1.8	14.8	17.9	11.6	NR	3.6
Corn Hill Beds	2	Ave	3221	313	12.5	107.5	26	631	19	7	66	26	101	10	11.2
Sandstones															
Grubb Shale	6	Ave	4231	218	14.2	192.2	39.2	1278	73	6.5	120	49.5	134	11	19.8
		Stddvn	311.5	35.5	2.56	33.1	3.5	527	65.6	2.35	15.2	18.4	52.7	5.1	3.27
Flowery Gully	7	Ave	162.3	NR	NR	8.3	3.86	43.9	164.9	NR	NR	NR	16.7	NR	NR
Limestone		Stddvn	59.8	NR	NR	3	1.21	5.15	25.3	NR	NR	NR	5.7	NR	NR
Eaglehawk Gully	27	Ave	2802	220	7.2	56.6	23.6	134	56.5	<4	47.8	<13.6	138	<8.2	13.1
Formation		Std dvn	773	68.7	2.3	21.7	5.61	47.7	36.2	NR	14.9	NR	96	NR	2.46
Salisbury Hill Formation	10	Ave	2265.3	231	<6.4	36.5	16.9	135.6	28.6	<3	37.5	18.9	256.6	<6.9	9.95
sandstones		Std dvn	775	82.7	NR	13	6.94	63.5	22	NR	10.6	13.5	168	nr	2.23
Salisbury Hill Formation	15	Ave	913	140	NR	13.7	6.5	101.4	20.9	NR	19.1	<18.2	611.7	<9.3	10.50
conglomerates		Std Dvn	690	125	NR	11.1	5.1	45.7	24	NR	12.1	NR	633	NR	6.30
Cabbage Tree	8	Ave	541	65.4	NR	8.75	4.13	35	<7.9	NR	12.1	25.8	884	NR	8.9
Conglomerate		Std dvn	193	35.3	NR	2.7	0.83	5.6	NR	NR	4.2	8.96	418	NR	NR
Blyth's Creek Formation	3	Ave	3683	218	12.3	152	34.3	433	84.7	5.3	100.7	70	88.7	18.7	17.0
Shale		Std dvn	312	25.9	0.6	26.6	2.5	45.5	7.4	1.2	10.3	44.2	64.5	5	0.93
Blyth's Creek Formation	6	Ave	227	<10.5	NR	11.2	NR	81.3	173	NR	NR	NR	15.8	NR	22.6
Limestone		Std dvn	141.5	NR	NR	6.2	NR	29.6	58.7	NR	NR	NR	6.1	NR	3.4
Blyth's Creek Formation	1		332	32	<3	7	3	111	35	<3	9	23	470	5	10.4
Conglomerate															
Blyth's Creek Formation	1		<100	<5	<3	<5	<3	19	199	3	<5	1837	1585	71	20
Serpentinite															
Blyth's Creek Formation	1		<100	<5	<3	<5	4	27	304	<3	6	755	1755	29	20
Dolomite															
Cambrian shale	3	Ave	4277	193	16	163	30.3	1485	17	5.7	125	105	126	<28	22.2
(Cobblestone Ck slice)		Std Dvn	303	14.4	1.7	23.7	3.2	1764	5.6	0.58	7.55	73.5	39.9	NR	0.17
Cambrian sandstone	2	Ave	4569	341	11	53	33	235	10	4	107	232	1174	26	13.5
(Cobblestone Ck slice)															
Mathinna Beds	15	Ave	3689	303.4	14.35	122.05	30.85	561	103.95			21.1	135		
		Std dvn	893.5									9.6	30.6		

Table 1. Summary of trace element lithogeochemistry

West Tamar Council and CASA. The survey was advertised in *"The Examiner"* on the Saturday prior to flying.

Bob White of Tooronga Resources, enhanced the data producing a series of images. One of the more useful images is presented as figure 25. The remaining images are reproduced in Bob White's report which is appended in full as appendix 6. The interpretation of the data was carried out with geological input from the author.

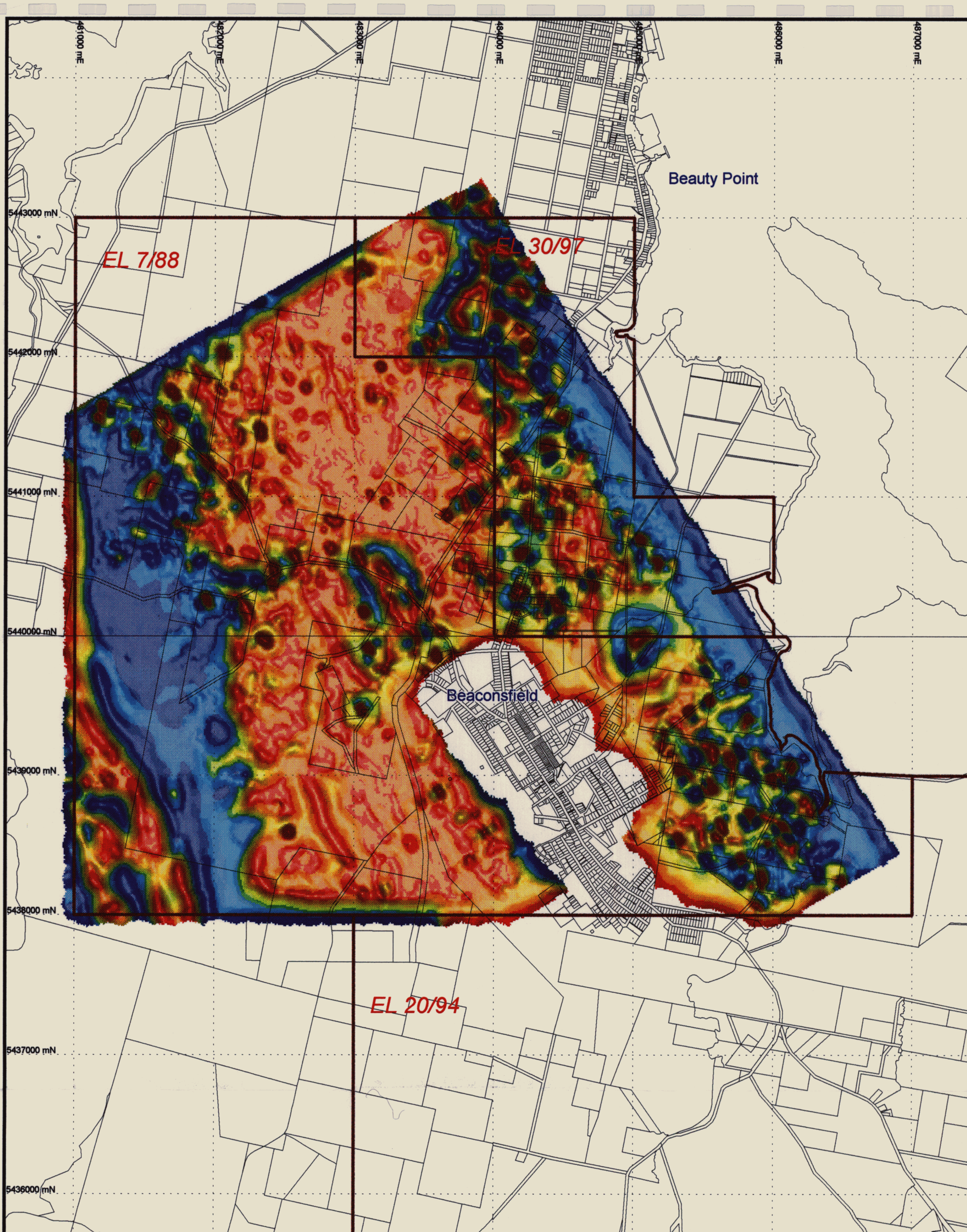
The following discussion is drawn from White (1998).

> *"The survey was flown at 40m terrain clearance on lines 50m apart. The lines were flown at 060 degrees, approximately at right angles to the geology ... The magnetic data in the survey is generally of good quality. It suffers from cultural noise due to houses, sheds etc. ... TM data collected over water with the UTS system has a problem with the radar altimeter. This may account for the area in the data that reports as below sea level".*
>
> *The magnetometer used was a Scintrex CS-2 Cesium Vapour instrument mounted in a stinger on a Bell 206 Jetranger. The sensitivity of the instrument is 0.001nT and readings were taken ~4.5 metres along survey lines. Tie line separation was 150 metres. The processing used involved two filtering methods. "The first was a first vertical derivative (1vd). The second method was a gaussian filter of various widths."*
>
> *"The data was further enhanced by the application of a Automatic Gain Control (AGC) operator. This has the effect of enhancing low order features and suppressing larger features".*

The interpretation was based upon the empirical model for the Tasmania Reef, i.e. that it lies in a northeast trending structure where the structure cuts the north-northwest trending Transition Beds. Proximity to a thrust is considered to be an important element of this model. Serpentinite intersected at the end of DDH's B13 and B32 is interpreted to be due to fluid movement up the Cabbage Tree Thrust considered to lie in or just beyond the ends of B13 and B32. The magnetite associated with this serpentinite is responsible for the north-northwest trending magnetic high running along the western side of Cabbage Tree Hill. Similarly trending magnetic highs are interpreted to represent the continuation along strike of known or inferred thrusts, the exception being that in the middle of the Corn Hill Beds which is interpreted solely from the magnetics.

Twenty-one target zones are defined by the interpretation. Some of these lie wholly within CML 1669P/M. These are not discussed here but are defined in appendix 6.

Targets 1-8 (Figure 26) are at the intersections of the easterly projections of NE faults with the brittle Transition beds. These targets lie within the ML. White (1998) states that targets 1-13 lie on possible



EL 7/88 - BEACONSFIELD

HELIMAGNETIC SURVEY
IMAGE - AGC on 2VD

Date:10/9/1998 Author: G.McD.
Drawn: File:

Scale: 1:25000
0 200 400 800 m

BEACONSFIELD MINE
JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 079 023
(JV MANAGER)

Figure No.: 25

527044


Beauty Point
EL 7/88
EL 30/97
EL 20/94
CML 1669P/M
Pease Creek Prospect
Beaconsfield
Target 16
Cabbage Tree slice
Cobblestone Creek slice (interpreted)
481000 mE
482000 mE
483000 mE
484000 mE
485000 mE
486000 mE
487000 mE
5443000 mN
5442000 mN
5441000 mN
5440000 mN
5439000 mN
5438000 mN
5437000 mN
5436000 mN
5435000 mN
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
5 cm
Geology as per Figure 2
EL 7/88 - BEACONSFIELD
HELIMAGNETIC SURVEY INTERPRETATION AND TARGETS
Date:10/9/1998
Author: G.McD.
Drawn:
File:
Scale: 1:25000
0
200
400
800 m
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)
Figure No.: 26

527045

similar geological and structural positions to the Tasmania Reef. He further states that the NE structures, defined by the magnetic survey, need to be prospected along as they may provide similar structural settings if they intersect brittle rocks. The intersection of these structures with less brittle rocks may produce more diffuse mineralised system (larger tonnage-lower grade), possibly amenable to open cut mining if near the surface. The suggestion here is that a number of the structures defined within ML may still be prospective where they pass into different rocks outside of the ML.

Target 9 is the intersection of a major NE structure and the possible extension of the Transition beds. It lies just north of the ML boundary.

Target 10 is the NW projection of the Transition beds and the intersection of a possible NE structure.

Target 11 is the projection of the transition beds and a NE structure. Just south of the area is a possible late? E-W structure with a major late? N-S feature just to the east.

Targets 12 & 13 are possible northern extensions of the same structures and geology but the positions are less well defined as the position of the thrust is not easily discernible.

A parallel zone may exist to the east of the town in a repetition of the geology and structures, under the Permian and Tertiary cover. Three targets (14, 15 & 16) have been proposed in this area for testing to ascertain if the appropriate geology and structures exist. The proposed prospective geology has been projected from outcrops of Ordovician 1 -2 Km to the south. The position of the targets along the probable NE structures is ill defined and will need to be adjusted as testing progresses. The targets may need to be moved to the east. Targets 14 and 15 lie within or on the boundary of the ML. Target 16 is wholly within EL 7/88.

There is a possible extension of this easterly zone under the cover to the north. Targets 17, 18 & 19 have been proposed to test this theory. The position of these targets is approximate and they should be refined by the study of any drilling that exists in the area.

Target 21 lies at the intersection of a NE structure and a discontinuity in what is probably ultramafic under recent cover. It extends into ground held under a category 1 and 3 ML by another party.

6.4.5 Ground Magnetics

Geophysical Technology Limited, of Armidale N.S.W. were contracted to carry out a ground magnetics survey in the Beaconsfield township area along nominally 50 metre spaced traverses. The magnetometer used was a TM-4 CS Vapour magnetometer. 5 readings were taken per second giving a nominal sample spacing of 0.2 metres.

The data produced by the survey is very noisy due to the culture in the town. Although it had been previously considered that useful data may be obtained by upward projecting the ground magnetic data this does not seem to be the case. A report on the survey is included in Appendix 7.

There may be some potential for that data collected along the northern end of Cabbage Tree Hill. This part of the ground magnetics survey lies wholly within the ML.

6.5 HONOURS THESES

Dale Lewis, an Honours student from the Department of Geology, University of Tasmania, completed his Honours research project on the "Lithostratigraphy, sedimentology and palaeontology of the Denison Group, Beaconsfield, Tasmania" in mid 1998. His work was based upon detailed core logging, thin sectioning and palaeontological identification of macro-fossils and micro-fossils (in particular conodonts and Nuia) from samples of diamond drill core. His work was concentrated on holes B13, B23, B26, B32, B36 and C37.

His lithostratigraphy has been used extensively in this report. His figure 3.5b formed the base for figures 4 and 5.

Many of his descriptions have been incorporated in earlier sections.

The abstract from his thesis is reproduced in appendix 8 as is that of Hayden Parry who completed his work in the 1997/98 reporting year. Both theses are held in the Geology Department of the University of Tasmania.

7.0 EXPENDITURE

7.1 1997-98 EXPENDITURE

Drilling	$140,947
Magnetic Surveys	$36,289
Exploration Geologist	$17,059
Drafting	$3,400
Consumables	$2,042
Management	$10,520
EL 7/88 Total	**$210,257**

7.2 FUTURE EXPENDITURE

EL 7/88 is due to expire on 14 October 1998. By separate letter and the appropriate form, the Beaconsfield Mine Joint Venture has advised Mineral Resources Tasmania that it wishes to extend its tenure over the tenement for a further 3 years. The reasons for wishing to extend the tenure are two-fold. Firstly, exploration during the past 2 – 3 years has led to the discovery of a significant prospect at Pease Creek, 3 km north of Beaconsfield, on which exploration is currently incomplete. Secondly, with the recent focus on rehabilitation of the Tasmania Mine and the imminent return of the same to production, some legitimate targets recognised by Beaconsfield Mine Joint Venture geologists over the past few years remain untested.

In a letter of appeal in respect of EL 7/88, the Beaconsfield Mine Joint Venture has committed a minimum sum of $500,000 to be spent on exploration on the EL over the next 3 years. Expenditure would occur at the rate of $100,000 in year 1 and $200,000 in each of years 2 and 3. The schedule for expenditure is based on anticipated cash flows to the Joint Venture Partners during that period. At the time of writing, a response to the appeal had not been received.

8.0 PROPOSED EXPLORATION

8.1 INTRODUCTION

Recommendations for further work can be divided into four areas based on the results of work carried out this year. Anomalous drill intersections at Pease Creek demand follow up both with shallow and deeper drilling. Numerous structural targets have been defined by the helimagnetics survey with a number of high priority targets within EL 7/88 as well as a number within the current mining lease CML 1669P/M. Anomalous channel samples and RC drilling intersections around the old Tasmania Reef open cut require further shallow testing. The empirical model for the Tasmania reef suggests that the discontinuous fence of overlapping RC (and vertical RAB) holes running north-northwest along the eastern side of Cabbage Tree Hill and to the north be completed. This latter drilling could be extended to include the Cobblestone Creek slice in the future.

8.2 PEASE CREEK PROSPECT

A significant body of work is proposed for Pease Creek in the following 3 years. The prospect has returned the most anomalous results from exploration to date. The tenor of mineralisation may be lower than that of the Tasmania Reef, however given the variability of grade and structural style of mesothermal gold deposits generally, the prospect has only been partially tested.

Three phases of work are proposed with subsequent programmes dependant on the results from the preceding phase.

The first problem to be clarified is the strike of mineralisation. To resolve this it is proposed that a fence of angled RC holes be drilled on either side of the B41 intersection, perhaps 20-30 metres away. Holes should overlap by 20% beneath the base of the Tertiary in order to close off the room for a steeply north dipping zone to pass through. Three or four holes (600-800 metres) may be required on each section in order to close off the options. RC drilling is considered to be more than adequate and probably favourable given the poor ground conditions, particularly since the zone is essentially defined by high gold grades and is visually difficult to pick. The mineralised zone is defined by elevated gold and usually arsenic in an ankerite+quartz veined zone with anomalous levels of pyrite and usually arsenopyrite.

Resolution of the strike of mineralisation will probably not be equivocal but should reinforce the interpretation of the structural setting and enable future diamond drilling to be planned much more effectively.

The second phase of work will consist of further RC drilling. The intention of this drilling is to pick up the mineralised zone along strike based on the knowledge gained from the first phase. A further 600-800 metres of RC drilling is proposed. This should be sufficient to intersect the mineralised zone a further 3 or 4 times at a shallow depth below the base of the Tertiary cover. The work is proposed as a relatively cost effective way of determining the strike potential of the zone and to provide information regarding potential grades and widths.

The third phase is partly dependant upon favourable results from the two earlier phases of work. However, regardless of the results there would still be a case for testing the zone at slightly greater depth than has occurred to date. Three 300-350 metre diamond drill holes are proposed to provide three intersections of the mineralised trend. One of these holes will be targeted beneath the B41 intersection but down plunge of it in an attempt to intersect the mineralised zone in the same stratigraphic position but at depth.

8.3 HELIMAGNETICS TARGETS

8.3.1 Introduction

A series of targets were identified and prioritised following the helimagnetic programme. Many of the targets lie within CML 1669P/M and are not considered here. They are however, shown on figure 26 and are described by White (1988) (appendix 6). Priority 1 was given to Pease Creek. This target is prioritised predominantly on the basis of results to date and a work programme is outlined above. The clearest target interpreted from the helimagnetic survey is target 16.

8.3.2 Targets

Target 16 (14 and 15)

Targets 14, 15 and 16 lie within the Cobblestone Creek slice and together constitute one of the two original target areas for ground magnetics identified previously (Hills, 1997). Northeast trending structures defining the targets are clearly evident in the magnetics. Target 16 is the best defined structure and lies directly along strike from the Tasmania Reef. Targets 14 and 15 lie to the south of target 16 in favourable positions should there have been dextral movement on north-south structures east of the Tasmania Mine. However, targets 14 and 15 are considered less attractive and as they lie almost completely within the current mining lease with only the very eastern end of 15 extending into EL 7/88, they will not be considered further at this time.

The difficulties for exploration are twofold. Firstly the actual nature of the Cobblestone Creek slice is unclear. There is no basal Cabbage Tree Conglomerate overlying the Blyth's Creek Formation limestone of the Cobblestone Creek slice in drill core from around the mine. The sandstone intersected in the upper part of A3 and B8 is more like the Eaglehawk Gully sandstones than the Salisbury Hill sandstones (this may reflect a more distal depositional environment in the Cobblestone Creek slice than the Cabbage Tree slice). Thus, for maximum geological information, drilling of this target should be undertaken by diamond drilling. As discussed by White (1998) holes may be better targeted towards the northwest to cover as much geology as well as structure as possible rather than directly perpendicular to the magnetic structure. The second difficulty is the unknown thickness of the Permian cover. Given no major down-faulting and an even dip, the thickness of Permian cover over target 16 is likely to be of the order of 60-100 m. Again, drilling is perhaps better achieved by diamond drilling. Two holes are considered optimal given the strike of the structure and the lack of knowledge about the geology.

A total of 600 metres (2 holes at 300 metres each) depending on the thickness of the Permian/Tertiary cover) is required to test the target zone.

Targets 12 and 13

These targets are analogous with the Pease Creek zone immediately to the south. In both cases the target structure could be tested by RC holes although a reasonable intersection in either fence will need to be followed up by angled diamond drilling in order to obtain as much structural and lithological information as possible.

Given an interpreted Tertiary cover of 30-40 metres a total of 400-500 metres of RC drilling is required for each zone.

Targets 17, 18 and 19

Drilling of these targets is dependent upon the results of drilling of target 16 (given the latter's empirically greater prospectivity and proximity to outcrop of the Ordovician sequence). These targets are less well defined but appear to be only overlain by Tertiary cover. No testing of these targets is currently planned

Targets 1 –8.

These targets are defined by the intersection of northeast striking magnetic structures, some of which (3, 4 and 5) have a dextral sense of movement, with the Denison Group on Cabbage Tree Hill. A number of these target structures are possible candidates for the western extension of the Tasmania Reef (structures 1 and 2 if Montgomery (1892) is correct in proposing a sinistral offset west of the second slide, or structure 3 or 4 if a dextral offset is the sense of movement). Significantly, structure 2 passes directly through the Bonanza shaft providing further justification for testing the reef zone intersected at the base of the shaft, considered by some workers to be the western extension of the Tasmania Reef. Target zones 1 to 8 all lie within the current mining lease and are not considered in the currently proposed programme. They will be tested by shallow overlapping RC holes (or deeper diamond holes) at a later date.

As discussed by White (appendix 6) the extension of these structures westward into the shales and sandstones of the Corn Hill Beds? west of Cabbage Tree Hill should be accorded some respect, particularly if early fluids silicified the country rocks (or formed quartz reefs) conducive for later Au bearing fluids to fracture and mineralise. Rocks of similar initial competency host large tonnages of Au in Victoria (slate belt) and significant but smaller amounts in northeast Tasmania. Structures 2, 3, 4 and 5 extend a significant distance into these rocks in land outside of the mining lease. Given the spatial relationship to the Tasmania Reef bearing structure, it is possible that these structures will be tested by shallow fences of overlapping RC holes during the next 3 years.

Target 9

This zone coincides with the North Tasmania workings. This structure was also recognised by Bishop (1989) in his interpretation of the 1988 fixed wing magnetic survey as well as by Montgomery (1892) based on geological mapping. The North Tasmania area has been tested to some degree by the workings and the subsequent drilling including diamond drill holes B37-B40 and early RAB and RC holes RB34 and RB35 and BRC3, 4 and 7).

The helimag survey does not appear to offer much assistance to planning further drilling at North Tasmania other than to confirm the strike of the structure. Further to the west this structure appears to have a dextral offset analogous with the Tasmania Reef. The early RAB and RC holes have filled in the gaps between old workings and there are no obvious targets at this stage.

8.4 TASMANIA REEF OPEN CUT

8.4.1 Introduction

Although the Tasmania Reef open cut lies within CML 1669P/M and thus is excluded from EL 7/88 the fact that the results from exploring this prospect have been presented here is justification for presenting the recommended follow-up. This work will include

RC drilling to follow-up anomalous channel sample results in the upper part of the open cut.

Diamond tails on some of the RC holes that did not penetrate the old workings on the Tasmania reef.

RC drilling to follow-up BRC54's anomalous intersection of 4m @ 4.4g/t Au.

The timing of the work discussed below is yet to be established.

8.4.2 RC Drilling of Channel Samples

Although the channel sampling produced largely disappointing results, the three anomalous zones may be indicative of mineralisation at depth or along strike in undisturbed uncontaminated ground. The workings in the upper part of the open cut (west of the No.2 slide) are considered to be some of the earliest on the field, probably predating the discovery of the Tasmania reef. The undergound development here is limited to the No.1 and No.2 levels with the No.3 level extending only partly beneath this zone and the No.4 level stopping at the No.2 slide. There is no information regarding stoping, however, this is unlikely to extend beneath the No.2 level.

The veining which is seen in outcrop is narrow tensional quartz+carbonate(?) veining to 10mm thick. A thicker vein (~30mm) has apparently been chased by open stoping and a shallow shaft near TR16. It is unclear whether all of the workings followed similar narrow tensional veinlets with the hope that these would blow-out into something larger or carrying higher grade. Channel samples and three rock samples of this veining indicate very low levels of gold, a feature consistent with experience from deeper drilling around the main reef. It is possible that a more significant vein was being worked in the open cut west of the No.2 slide with the evidence removed.

The vein set dips steeply towards the southwest. Although drilling through old workings proved problematic further down slope (east of the No.2 slide), the old workings to the west do not seem to have seen the same amount of work.

A series of pairs of holes are proposed to test these anomalies and to extend north-northwestwards along the Moonlight-cum-Wonder trend.

8.4.3 *Diamond Tails*

The original concept to be tested by the RC drilling around the open cut remains incompletely tested. All but one hole stopped in, or in the hangingwall to, the Tasmania reef. The idea that there may be mineralisation in the stope fill or the immediate footwall has only been tested by one hole (albeit unfavourably).

Diamond tails are proposed to be added to three of the new RC holes to test this target concept. A further element of the concept, i.e. that there may be further discrete reefs in the footwall to the Tasmania reef has been partly vindicated by the BRC54 result. At least one of the tails will be extended in order to test for a westerly extension of this BRC54 reef. A long section (in the plane of the Tasmania reef) is shown in figure 8. It divides the reef into three sections bounded by the two slides. One of the tails will be placed on a hole between the two slides with two tails on holes east of the main slide (the third zone will be tested by the RC drilling discussed above).

8.4.4 RC Follow-up of BRC54

The anomalous intersection of 4 m @ 4.41 g/t Au warrants follow-up. Although RC3 and OHH21 have drilled across the probable trend of the mineralised zone it is uncertain whether the intersections in RC3 and OHH21 are of the same structure intersected in BRC54, though this is a strong possibility. Poor values in these two holes are not a major concern given the likelihood that gold mineralisation occurs in shoots plunging 60° to the east. The footwall cross-cut on the No.2 North level from the Florence Nightingale shaft appears to preclude the reef extending eastwards from the BRC54 intersection.

Three holes are proposed to follow up this intersection. The holes are based upon two premises:

(1) The intersection in BRC54 is of the northern branch of the Tasmania reef as indicated by the section through the Florence Nightingale shaft (figure 13). It is also probably that worked in a nearby collapsed adit(?) and may be represented by intersections in RC3 and OHH21.

(2) The reef intersected in BRC54 is analogous to the Tasmania reef with a southeasterly dip.

The proposed drilling covers both possibilities.

8.5 ADDITIONAL DRILLING

Given the degree of post-Devonian cover and the extent to which the outcropping pre-Middle Devonian rocks were prospected last century, any future discoveries are likely to be sub-surface and require drilling. A number of the successes to date have come from systematic drilling yet the drilling coverage is quite poor.

Empirically the highest priority target is a southeast dipping, northeast trending quartz+ankerite+sulphide (inc. arsenopyrite) vein within the Transition beds and particularly towards the base of the Eaglehawk Gully Formation. To date mineralisation has only been found in structures cutting these rocks in the Cabbage Tree slice though correlates of these favourable hosts are found in adjacent thrust slices.

Testing for this target model requires a continuous fence of overlapping drill holes (DDH, RC or RAB) running roughly along the base of the Eaglehawk Gully Formation in the Cabbage Tree slice. Such drilling exists to the north of the mine (in CML1669P/M) and at Pease Creek with two fences of vertical RAB holes and some limited angled RC drilling at North Tasmania.

There is 3 km of strike within EL 7/88 along this trend that remains untested. The main strike potential lies north of North Tasmania. It is constrained by the increasing depth of Permian cover towards the northern boundary of the licence.

The other significant strike length of the favourable Ordovician host rocks is considered to be the Cobblestone Creek slice to the immediate east of the Cabbage Tree slice. There is 1.5 km of strike within EL 7/88 which remains completely untested. High priority helimagnetics target 16 lies within this trend. However, as noted earlier the nature of the Ordovician sequence in the Cobblestone Creek slice is largely unknown and may not necessarily be favourable for gold mineralisation. Prioritisation of a fence(s) of RC holes along the Cobblestone Creek slice will await the results of testing target 16, particularly with reference to the host rocks.

It is anticipated that a selected portion of the above drilling will be undertaken during the next 3 years as part of the $500,000 expenditure committed in Section 7.

9.0 REFERENCES

Anon., 1987. EL 17/73. Annual and final report, Beaconsfield gold project. [TCR 87-2749].

Bates, T.E., 1979a. EL 17/73 Report on auger and rotary drilling on EL 17/73, Beaconsfield [TCR 79-1329].

Bates, T.E., 1979b. EL 17/73. Potential for locating reefs near to and approximately parallel to the Tasmania reef. [TCR 79-1346].

Bates, T.E., 1979c. EL 17/73. Report on the geology, mineralisation and exploration potential of the licence, Beaconsfield. [TCR 79-1351].

Bates, T.E., 1979d. EL 17/73. Summary report on auger and rotary drilling on lines 1 to 4, EL 17/73. [TCR 79-1403].

Blanchard, B., 1990. EL 7/88. Annual report 1989/90. Beaconsfield Gold Mines Limited. [TCR 90-3173].

Blanchard, B. and McGain, A., 1991. EL 7/88 Annual report 1990/91. Beaconsfield Gold Mines Limited. [TCR 91-3293].

Berry, R.F., 1994. Tectonics of Western Tasmania: Late Precambrian-Devonian, in Cooke, D.R. and Kitto, P.A. (eds), Contentious issues in Tasmanian geology. *Abstracts Geological Society of Australia*, 39: 6-8.

Carr, G.R., 1988. Report to Beaconsfield Operations on a Pb isotopic study of Tasmania Reef, Beaconsfield. CSIRO Division of Mineral Physics and Mineralogy. Unpublished.

Elliot, C.G., Woodward, N.B. and Gray, D.R., 1993. Complex regional fault history of the Badger Head region, northern Tasmania, *Australian Journal of Earth Sciences*, 40: 155-168.

Elsworth, D.L. and Silver, A., 1975. EL 17/73. Report on the feasibility of re-opening and operating the Tasmania gold mine at Beaconsfield, Tasmania. [TCR 75-1108].

Gee, R.D. and Legge, P.J., 1979. Geological atlas 1 mile series. Zone 7 Sheet 30 (8215N). *Beaconsfield* (2nd edn.). Explan. Rept. Geol. Surv. of Tasm.

Green, D.H., 1959. Geology of the Beaconsfield region, including the Anderson's Creek Ultrabasic Complex, *Records of the Queen Victoria Museum, Launceston*, New Series No 10.

Gulline, A.B., 1981. Geological atlas 1 mile series. Zone 7 Sheet 38 (8215S). *Frankford*. Explan. Rept. Geol. Surv. of Tasm.

Hamlyn, D.A., 1982. EL 17/73. Beaconsfield geology and exploration. AMAX. [TCR 82-1681].

Hicks, J.D., 1989. EL 7/88. Exploration report for the period October 1987 to January 1989. Beaconsfield Gold Mines Limited. [TCR 89-3011].

Hills, P.B., 1982. The geology of the Lower and Middle Palaeozoic rocks of Flowery Gully, Northern Tasmania, BSc Honours thesis (unpublished), University of Tasmania, Hobart.

Hills, P.B., 1996. EL 7/88. Annual report 1995/96. Beaconsfield Mine JV.

Hills, P.B., 1997. EL 7/88. Annual report 1996/97. Beaconsfield Mine JV.

Hills, P.B., 1988a. Tasmania Reef identified mineral resource as at 30 June 1998. Beaconsfield Mine JV.

Hills, P.B., 1998b. Tasmania gold deposit, Beaconsfield, in *Geology of Australian and Papua New Guinean Mineral Deposits* (Eds. D.A. Berkman and D.H. MacKenzie), pp 467-472 (The Australasian Institute of Mining and Metallurgy: Melbourne).

Jones. C., 1972. EL 7/69. Beaconsfield gold project report. unpub. rept. for Tas. Mines Dept. [TCR 72-912].

Keele, R. A., 1994. Structure and veining in the Devonian-aged Mathinna-Alberton Gold Lineament, northeast Tasmania. Rep 1994/06.

Leckie. E.R., 1969. EL 17/73. Report on the auger geochemistry Beaconsfield gold prospect unpub. rept.for Tas. Mines Dept. [TCR 72-846].

Lewis, D., 1998. Lithostratigraphy, sedimentology and palaeontology of the Dension Group, Beaconsfield, Tasmania, BSc Honours thesis (Unpublished), University of Tasmania, Hobart.

Laurie, J.R., 1996. Macrofossils from the Cabbage Tree Formation, Middle Arm Gorge, near Beaconsfield, Tasmania, Australian Geological Survey Organisation Professional Opinion 1996/008 (unpublished).

McKeown, M.V., 1995. Beaconsfield Mine Joint Venture - EL 7/88 Drilling Programme.

McKeown, M.V., 1996. Tasmania Reef 900 mRL to 1200 mRL drilling programme. Beaconsfield Mine Joint Venture.

Montgomery, A., 1892. Report on the geological structure of the Beaconsfield goldfield. Rep. Secr. Mines Tasm. 1895-1896: xxxix-xi.

Newnham, L.A., 1993. EL 7/88. Annual report 1992/93. Beaconsfield Gold Mines Limited.

Newnham, L.A., 1994. 1993-94 drilling programme report and Tasmania Reef mineral resource assessment. Newnham Mining and Exploration Services.

Newnham, L.A., 1995. Tasmania Resource Estimate. Newnham Mining and Exploration Services.

Newnham, L.A., 1996. Beaconsfield area mineral resource potential and recommended evaluation programmes.

Newnham, L.A. and Pease, C.D.F., 1983. EL 17/73 and 39/81 Beaconsfield project, progress report period ending 30th June 1983. Goldfields Exploration Pty Ltd [TCR 83-2021].

Noldart, A.J., 1964. Notes on auriferous deposits, Beaconsfield goldfield. Tech. Rept. Dept. of Mines Tasm. 8:10-12.

Noldart, A.J., 1968. Report on exploratory diamond drilling of the Tasmania gold mine. Tech. Rept. Dept. of Mines Tasm. 12:27-36.

Pease, C.D.F., 1984. EL 17/73. Progress report on exploration of Tasmania reef, Beaconsfield, Tasmania. Gold Fields Pty Limited. [TCR 84-2107].

Pease, C.D.F., 1985. EL 17/73. Progress report on exploration of Tasmania reef, Beaconsfield, to end of February 1985. Gold Fields Pty Limited. [TCR 85-2368].

Purvis, J.G., 1998. EL 31/96 Mt Careless. Annual Report 1998. Allstate Explorations NL.

Russell, D.W. and Van Moort, J.C., 1992. Mineralogy and stable isotope geochemsitry of the Beaconsfield, Salisbury and Lefroy goldfields. Bull. geol. Surv. Tasm. 70:208-226.


484400 mE
5438400 mN
484600 mE
484800 mE
5438600 mN
485000 mE
485200 mE
0 mRL
-200 mRL
-400 mRL
-600 mRL
-800 mRL
-1000 mRL
-1200 mRL
DEEP LEAD
GRUBB SHALE
BLYTH CREEK FORMATION
FLOWERY GULLY LIMESTONE
EAGLEHAWK GULLY FORMATION
SALISBURY HILL FORMATION
CABBAGE TREE CONGLOMERATE
BLYTH CREEK FORMATION
1LS
HLS
2LS
1SL
3LS
2SL
PEB
WET
1SC
2CG
2SC
98-4205
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.
LEGEND
Hole No
213532
Lithogeochemical sample number
2500
2000
1500
1000
500
Magnetic susceptibility
(x10-5 SI)
1mm = 50x10-3 SI
527058
EL 7/88 - BEACONSFIELD
MINE CROSS SECTION
LITHOGEOCHEMICAL SAMPLE LOCATIONS AND MAGNETIC SUSCEPTIBILITY
Date:10/9/1998
Author: G.McD.
Drawn: G.M.B.
File: MS_MagSus.wor
Scale: 1:2000
0 25 50 100 m
5 cm
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 025
(JV MANAGER)
Figure No.: 4

98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527059

EL 7/88 - BEACONSFIELD

MINE CROSS SECTION

Ni, Cr, Ti, Zr and Ti/Zr RESULTS

Date:10/9/1998 | Author: G. McD.

Drawn: G.M.B. | File: MS_Cr, Ni & Ti/Zr.wor

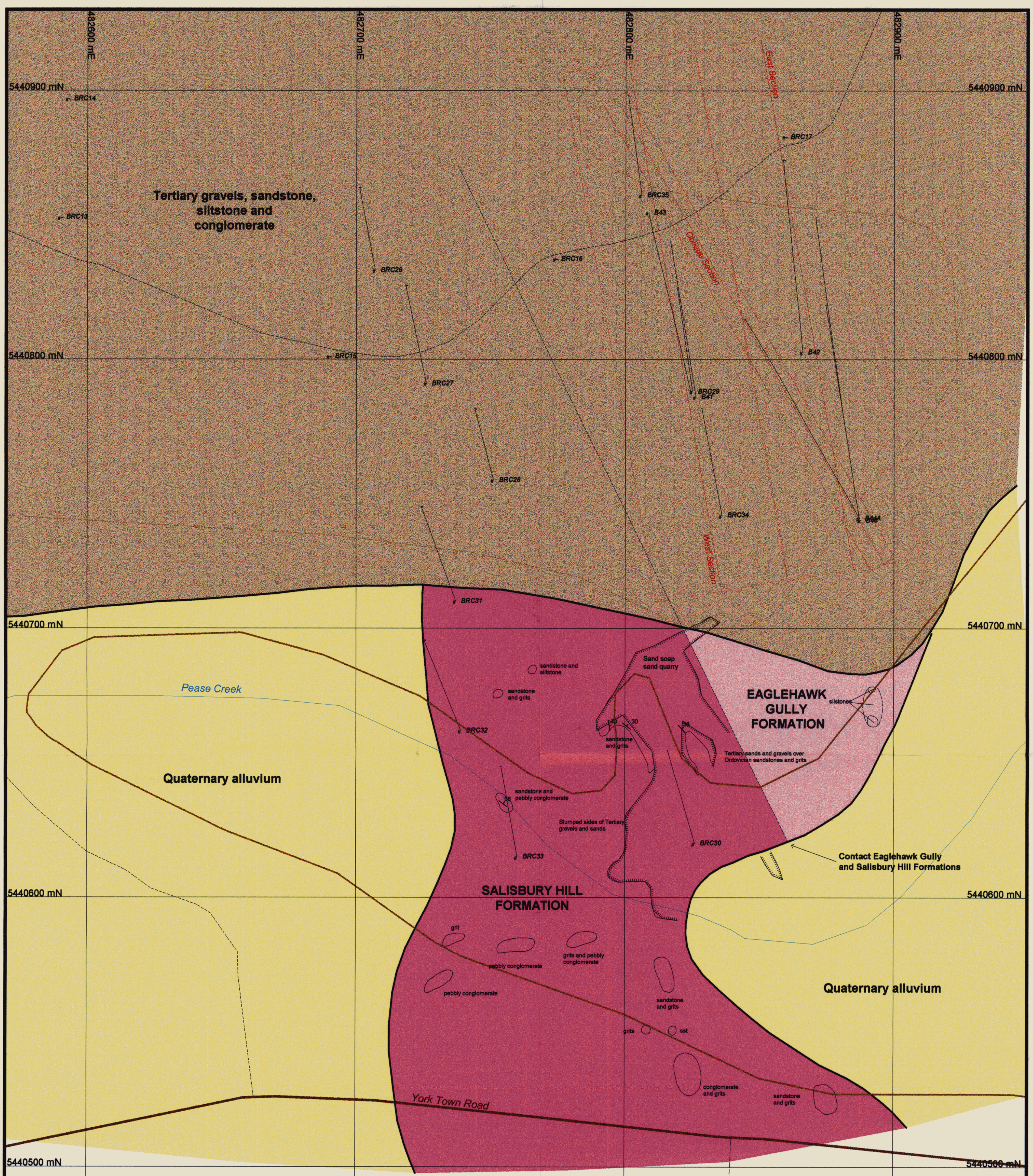
Scale: 1:2000

0 25 50 100 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 083
(JV MANAGER)

Figure No.: 5



98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

$27060

5 cm

5440400 mN

482600 mE | 482700 mE | 482800 mE

EL 7/88 - BEACONSFIELD

PEASE CREEK PROSPECT

GEOLOGY AND DRILLHOLE LOCATIONS

Date: 9/9/1998	Author: G. McD.
Drawn: G.M.B.	File: PCplan98.wor

Scale: 1:1000

0 25 50 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)

Figure No.: 7

98-4205

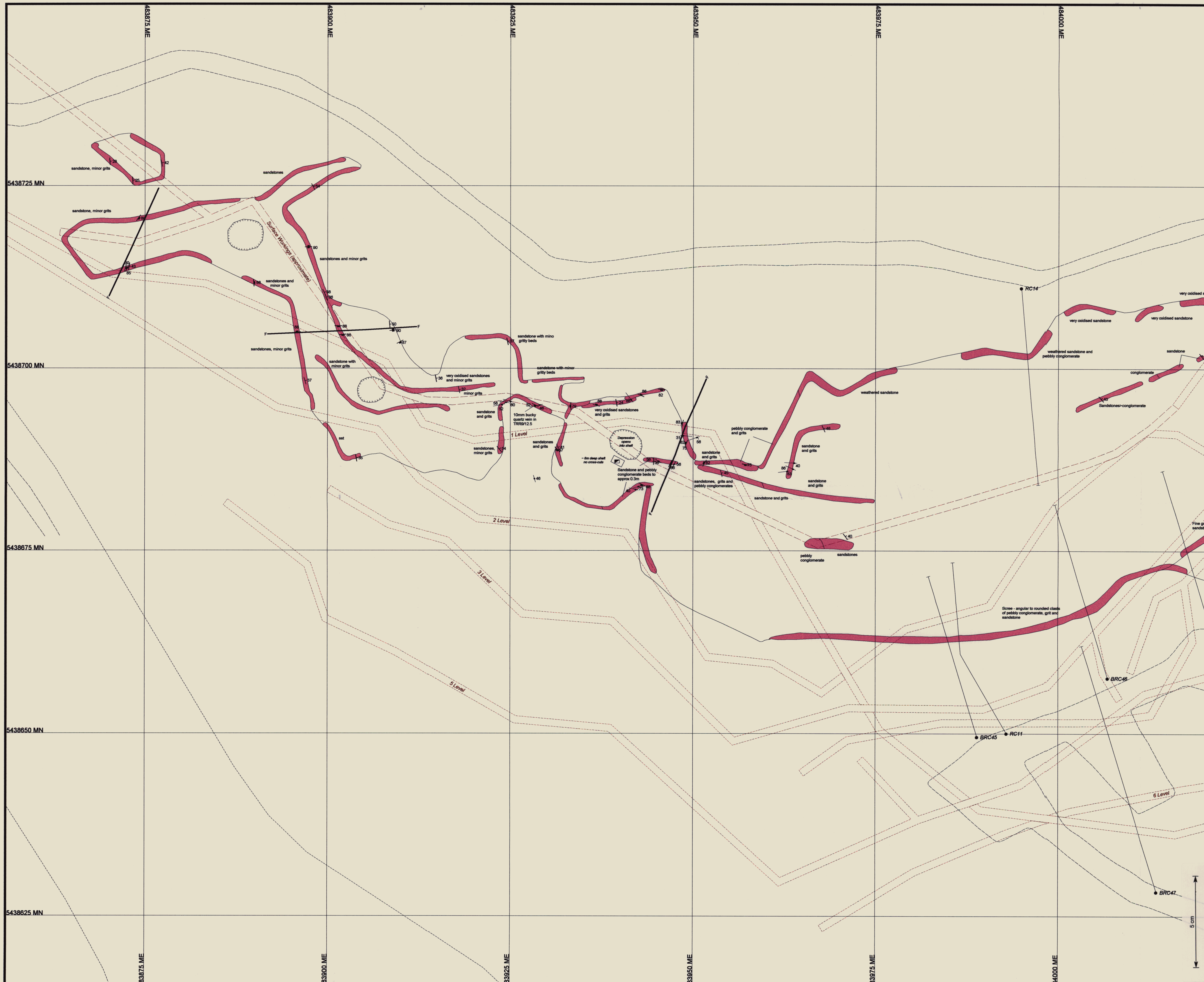
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527[illegible]61


5440725 mN
5440750 mN
5440775 mN
482875 mE
5440800 mN
5440825 mN
5440850 mN
5440875 mN
5440900 mN
2075 mRL
2050 mRL
2025 mRL
2000 mRL
1975 mRL
1950 mRL
1925 mRL
1900 mRL
1875 mRL
1850 mRL
1825 mRL
B42
BRC17
No Core
T
OLT
OUT
4 metres @ 0.97 g/t Au
B46 hole trace projected. Best intersection projected ~ 15m
LEGEND
RB HOLES
T Tertiary
T/O Tertiary or Ordovician Transition Beds
OUT Ordovician Upper Transition Beds - Eaglehawk Gully Formation
OLT Ordovician Lower Transition Beds - Salisbury Hill Formation
ASSAY RESULTS - in ppm
Au As
BRC100
<0.008 1.25
5 cm
527062
EL 7/88 - BEACONSFIELD
PEASE CREEK PROSPECT
EAST DIAMOND DRILL SECTION
BEARING 350 AMG
Date:27/8/1998
Office: BEACONSFIELD
Author: G.McD
File: PCeastXS.wor
Scale: 1:250
0 5 10 m
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)
Figure No.: 9

98-4205
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527063



98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527064

EL 7/88 - BEACONSFIELD
PEASE CREEK PROSPECT

OUTCROP GEOLOGY

Date: 9/9/1998 Author: G. McD.
Drawn: G.M.B. File: TOC_Ocrop.wor
Scale: 1:250
0 5 10 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 083
(JV MANAGER)

Figure No.: 11

98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527065

KEY

TR9/7-9	Channel traverse 9, 7 metres to 9 metres
TRR9/8	Rock chip on traverse 9 at 8 metres

EL 7/88 - BEACONSFIELD

TASMANIA REEF OPEN CUT PROSPECT

CHANNEL SAMPLE LOCTIONS

Date:7/9/1998	Author: G. McD.
Drawn: G.M.B.	File: TOC_Channels.wor

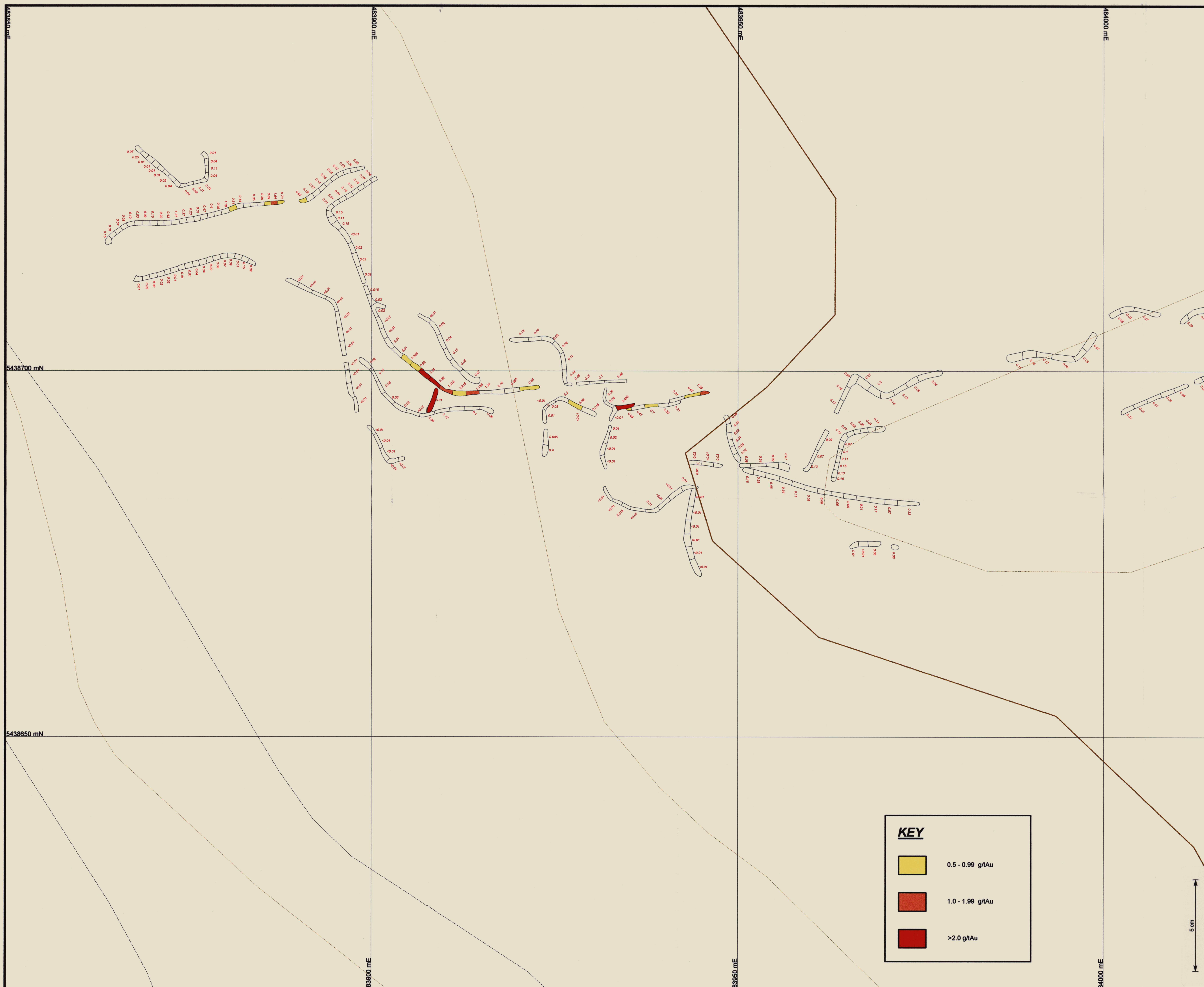
Scale: 1:250

0 5 10 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)

Figure No.: 12



98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

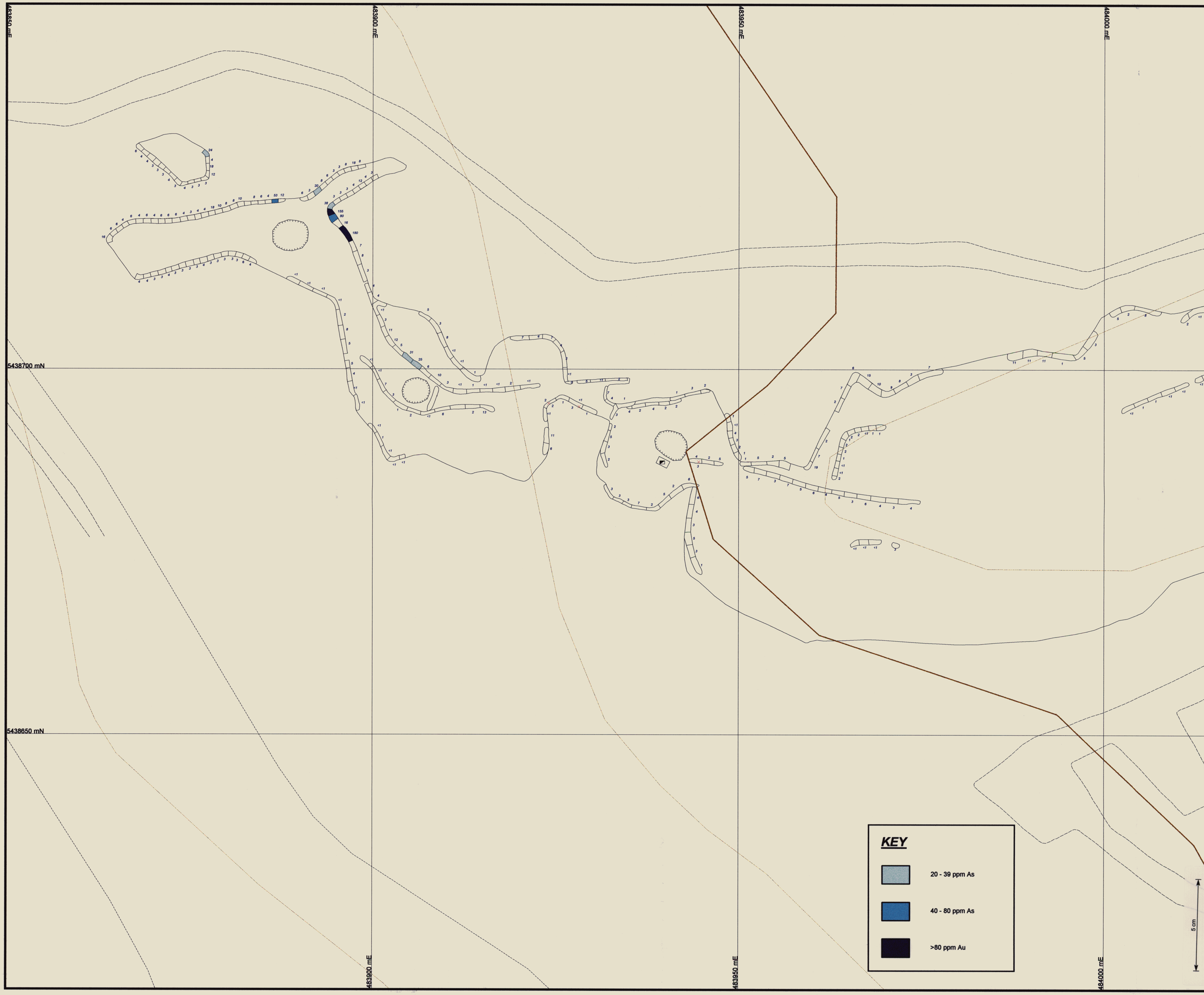
527066

EL 7/88 - BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
GOLD RESULTS AND ANOMALIES

Date:7/9/1998 Author: G. McD.
Drawn: G.M.B. File: TOC_CSau.wor
Scale: 1:250
0 5 10 m

BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)

Figure No.: 13



98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527067

EL 7/88 - BEACONSFIELD

TASMANIA REEF OPEN CUT PROSPECT

ARSENIC RESULTS AND ANOMALIES

Date:7/9/1998 Author: G. McD.

Drawn: G.M.B. File: TOC_CSas.wor

Scale: 1:250

0 5 10 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)

Figure No.: 14

98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

EL 7/88 - BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT

DRILLHOLE LOCATIONS

Date:10/9/1998 Author: G.McD.
Drawn: G.M.B. File: TOC_1000plan.sor
Scale: 1:1000
0 25 50 M

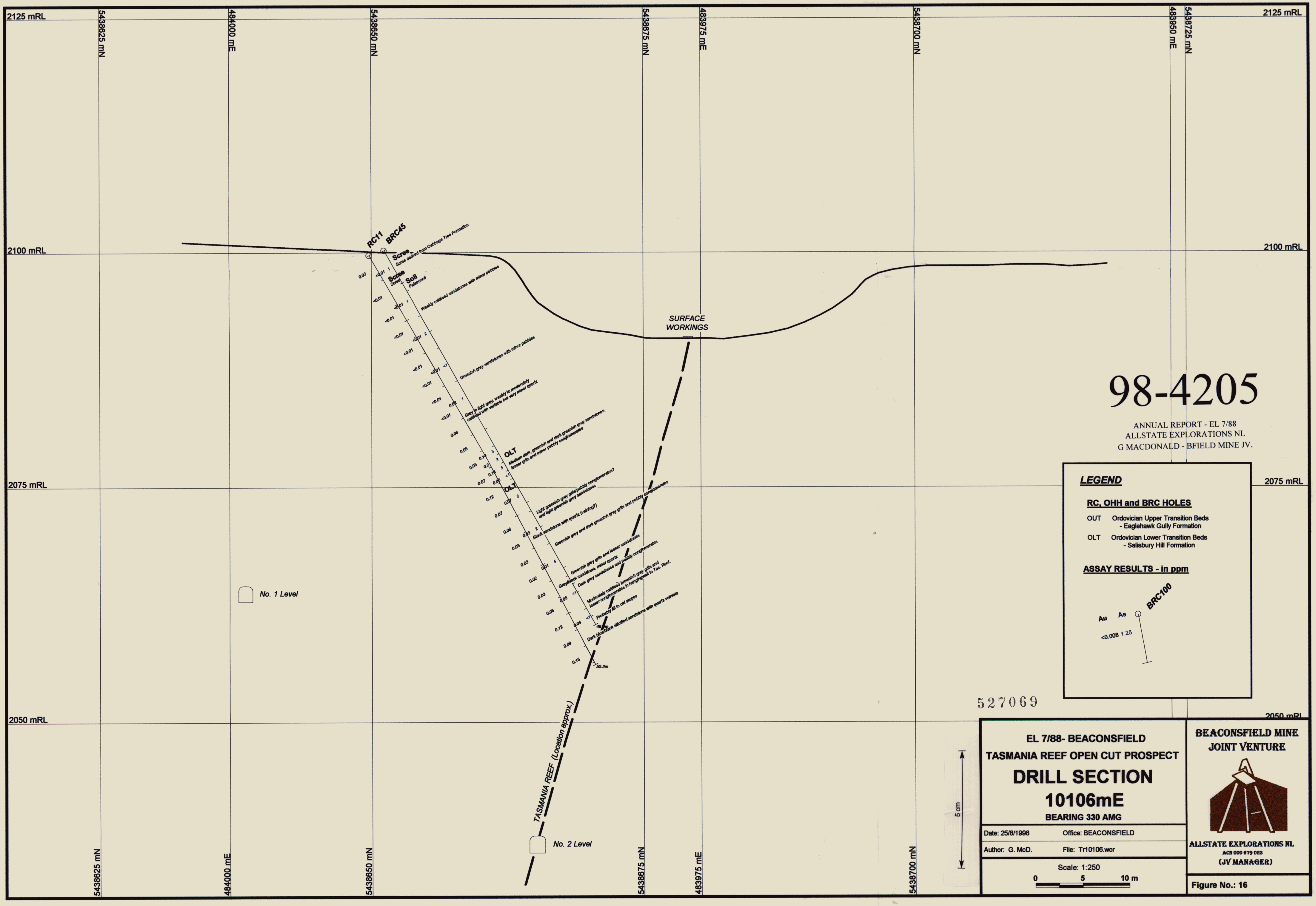
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)

Figure No.: 15

527068

98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.



527069

EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
DRILL SECTION
10106mE
BEARING 330 AMG

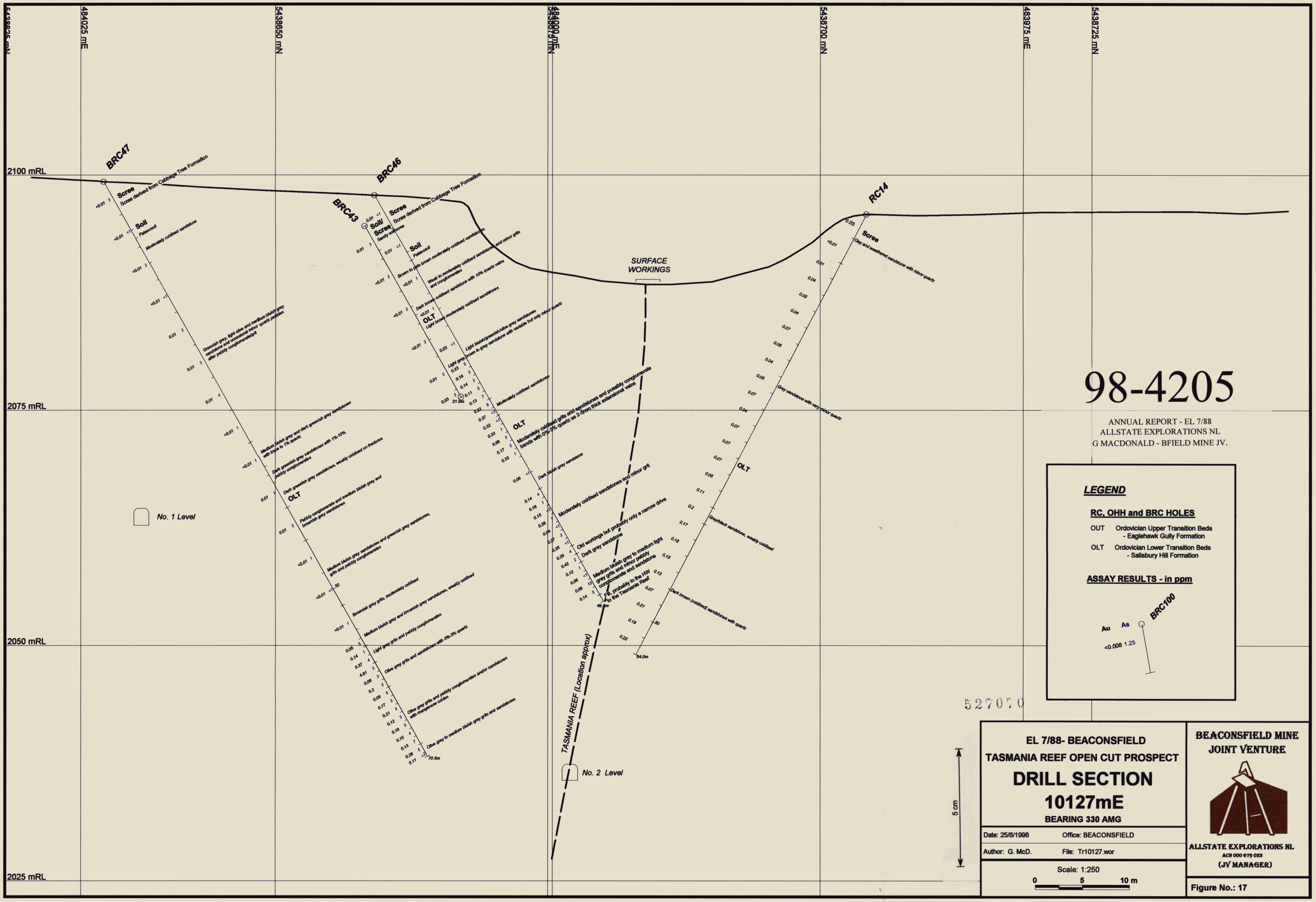
Date: 25/8/1998 | Office: BEACONSFIELD
Author: G. McD. | File: Tr10106.wor

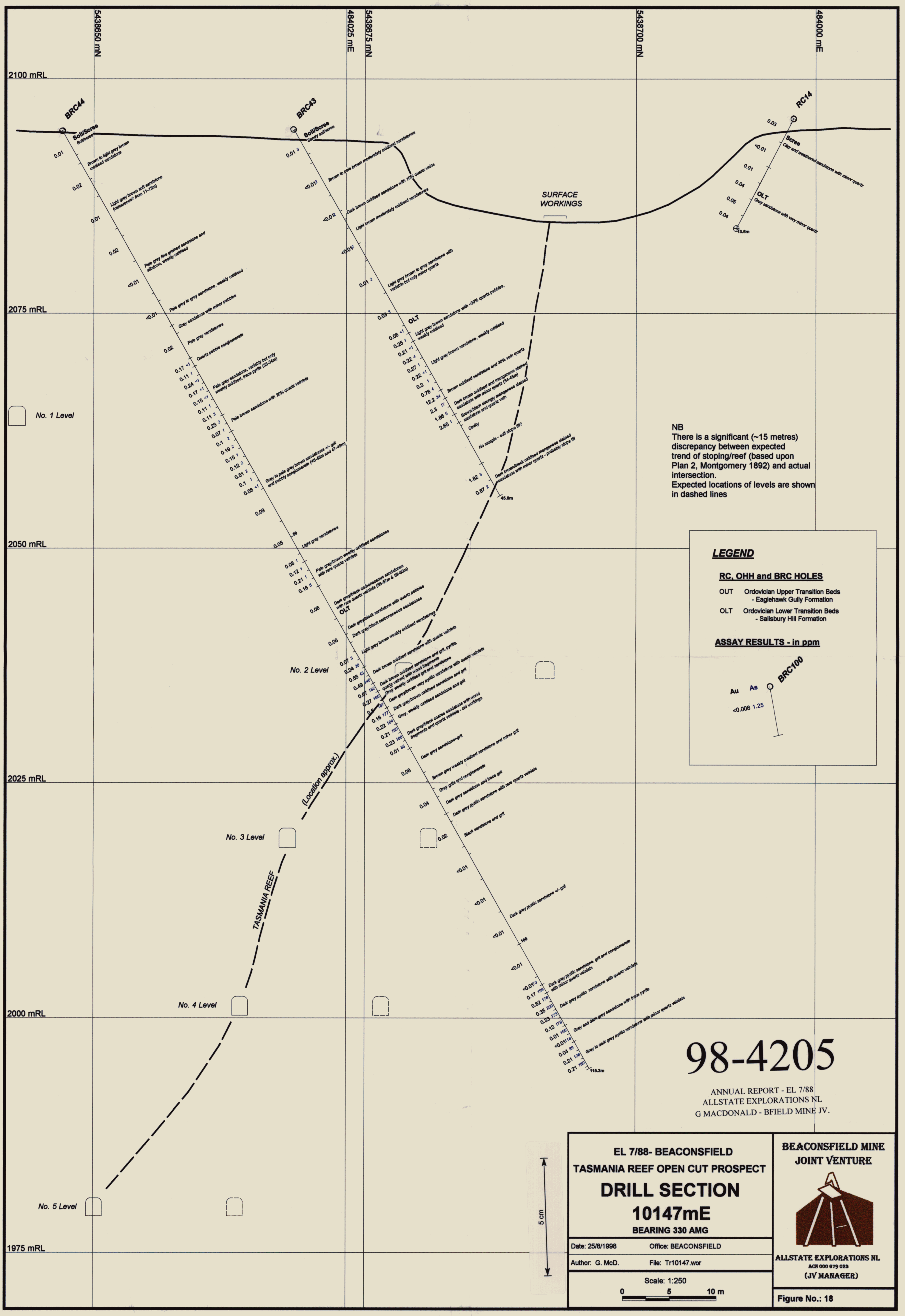
Scale: 1:250
0 5 10 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)

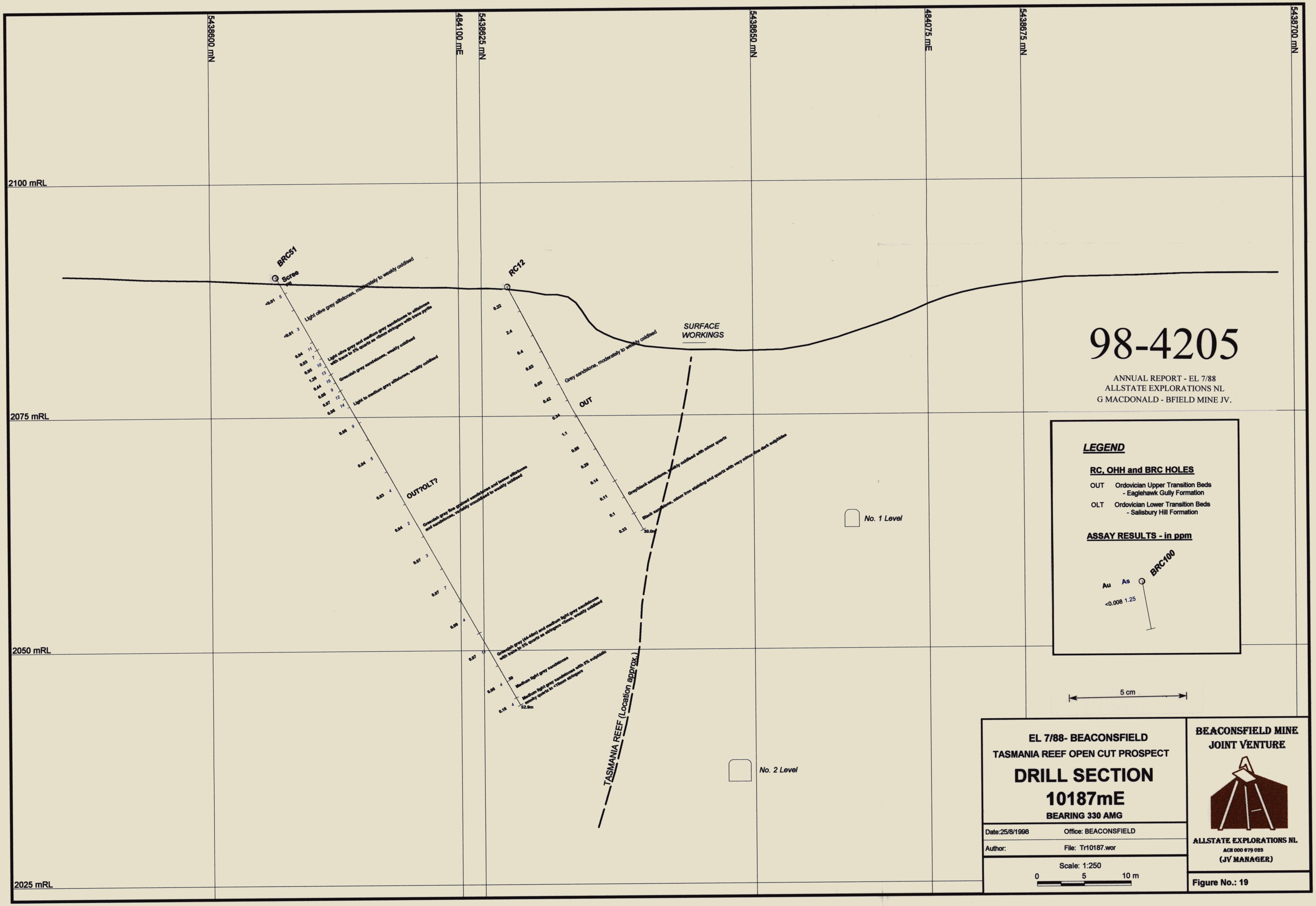
Figure No.: 16


98-4205
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.
484025 mE
5438650 mN
484000 mE
5438675 mN
5438700 mN
483975 mE
5438725 mN
2100 mRL
2075 mRL
2050 mRL
2025 mRL
BRC47
BRC46
BRC43
RC14
SURFACE WORKINGS
Scree
Scree derived from Cabbage Tree Formation
Soil
OLT
No. 1 Level
No. 2 Level
TASMANIA REEF (Location approx)
70.5m
54.0m
LEGEND
RC, OHH and BRC HOLES
OUT Ordovician Upper Transition Beds - Eaglehawk Gully Formation
OLT Ordovician Lower Transition Beds - Salisbury Hill Formation
ASSAY RESULTS - in ppm
Au
As
BRC100
<0.008 1.25
527070
EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
DRILL SECTION
10127mE
BEARING 330 AMG
Date: 25/8/1998
Office: BEACONSFIELD
Author: G. McD.
File: Tr10127.wor
Scale: 1:250
0 5 10 m
5 cm
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)
Figure No.: 17



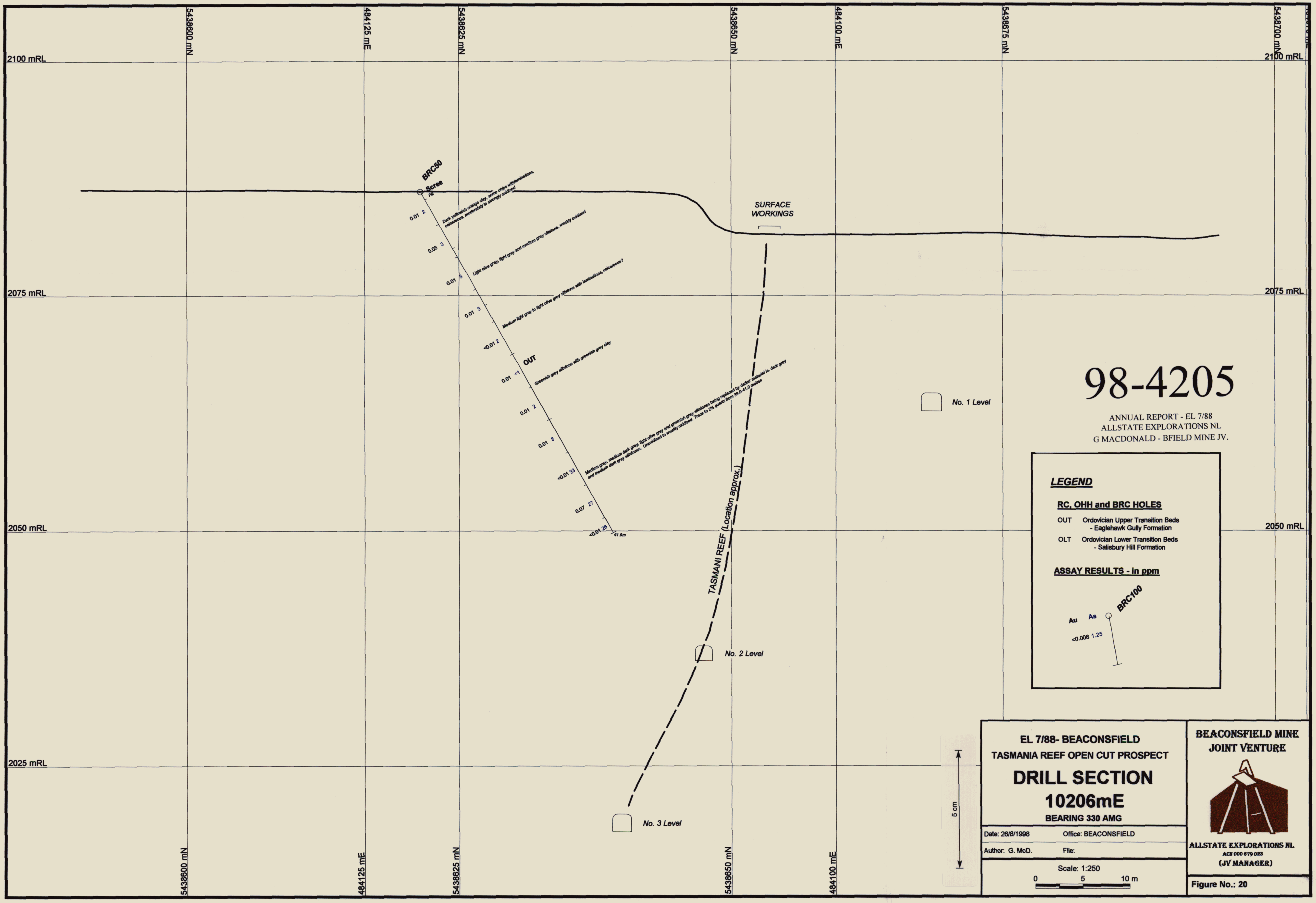
5438650 mN
484025 mE
5438675 mN
5438700 mN
484000 mE
2100 mRL
2075 mRL
2050 mRL
2025 mRL
2000 mRL
1975 mRL
BRC44
BRC43
RC14
Soil/Scree
Scree
OLT
SURFACE WORKINGS
No. 1 Level
No. 2 Level
No. 3 Level
No. 4 Level
No. 5 Level
TASMANIA REEF
(Location approx.)
45.0m
115.3m
NB
There is a significant (~15 metres) discrepancy between expected trend of stoping/reef (based upon Plan 2, Montgomery 1892) and actual intersection.
Expected locations of levels are shown in dashed lines
LEGEND
RC, OHH and BRC HOLES
OUT Ordovician Upper Transition Beds - Eaglehawk Gully Formation
OLT Ordovician Lower Transition Beds - Salisbury Hill Formation
ASSAY RESULTS - in ppm
Au As
BRC100
<0.008 1.25
98-4205
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.
EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
DRILL SECTION
10147mE
BEARING 330 AMG
Date: 25/8/1998
Office: BEACONSFIELD
Author: G. McD.
File: Tr10147.wor
Scale: 1:250
0 5 10 m
5 cm
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)
Figure No.: 18

527071



5438600 mN
484100 mE
5438625 mN
5438650 mN
484075 mE
5438675 mN
5438700 mN
2100 mRL
2075 mRL
2050 mRL
2025 mRL
BRC51
Scree
RC12
Light olive grey siltstones, moderately to weakly oxidised
Greenish grey sandstones, weakly oxidised
Light to medium grey siltstones, weakly oxidised
OUT?OLT?
Medium light grey sandstones
52.9m
Grey sandstone, moderately to weakly oxidised
OUT
30.0m
SURFACE WORKINGS
TASMANIA REEF (Location approx.)
No. 1 Level
No. 2 Level
98-4205
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.
LEGEND
RC, OHH and BRC HOLES
OUT Ordovician Upper Transition Beds - Eaglehawk Gully Formation
OLT Ordovician Lower Transition Beds - Salisbury Hill Formation
ASSAY RESULTS - in ppm
Au As BRC100
<0.008 1.25
5 cm
EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
DRILL SECTION
10187mE
BEARING 330 AMG
Date:25/8/1998
Office: BEACONSFIELD
Author:
File: Tr10187.wor
Scale: 1:250
0 5 10 m
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)
Figure No.: 19

527072


5438600 mN
484125 mE
5438625 mN
5438650 mN
484100 mE
5438675 mN
5438700 mN
2100 mRL
2075 mRL
2050 mRL
2025 mRL
BRC50
Scree
Fill
Dark yellowish orange clay, some chips withlaminations, calcareous, moderately to strongly oxidised
Light olive grey, light grey and medium grey siltstone, weakly oxidised
Medium light grey to light olive grey siltstone with laminations, calcareous?
OUT
Greenish grey siltstone with greenish grey clay
Medium grey, medium dark grey, light olive grey and greenish grey siltstones being replaced by darker material ie. dark grey and medium dark grey siltstones. Unoxidised to weakly oxidised. Trace to 2% quartz from 39.0-41.0 metres
0.01 2
0.03 3
0.01 3
0.01 3
<0.01 2
0.01 <1
0.01 2
0.01 8
<0.01 33
0.07 27
<0.01 26
41.9m
SURFACE WORKINGS
TASMANI REEF (Location approx.)
No. 1 Level
No. 2 Level
No. 3 Level
98-4205
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.
LEGEND
RC, OHH and BRC HOLES
OUT Ordovician Upper Transition Beds - Eaglehawk Gully Formation
OLT Ordovician Lower Transition Beds - Salisbury Hill Formation
ASSAY RESULTS - in ppm
Au As BRC100
<0.008 1.25
5 cm
EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
DRILL SECTION
10206mE
BEARING 330 AMG
Date: 26/8/1998
Office: BEACONSFIELD
Author: G. McD.
File:
Scale: 1:250
0 5 10 m
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)
Figure No.: 20

527073

98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527074

EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT

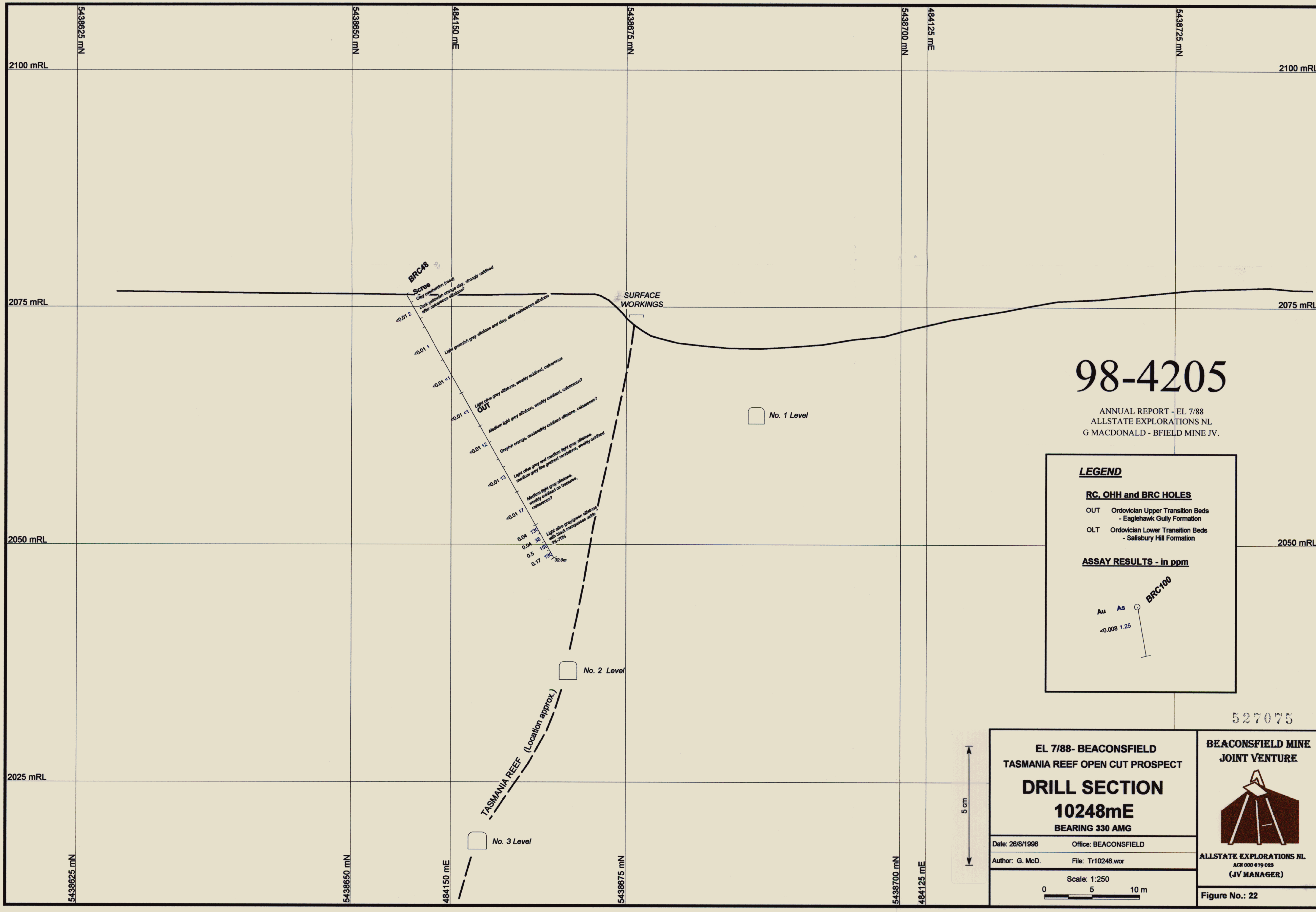
DRILL SECTION
10223mE
BEARING 330 AMG

Date:26/6/1998 Office: BEACONSFIELD
Author: G. McD. File: Tr10223.wor
Scale: 1:250
0 5 10 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 025
(JV MANAGER)

Figure No.: 21



98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527075

EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT

DRILL SECTION
10248mE
BEARING 330 AMG

Date: 26/8/1998 Office: BEACONSFIELD
Author: G. McD. File: Tr10248.wor

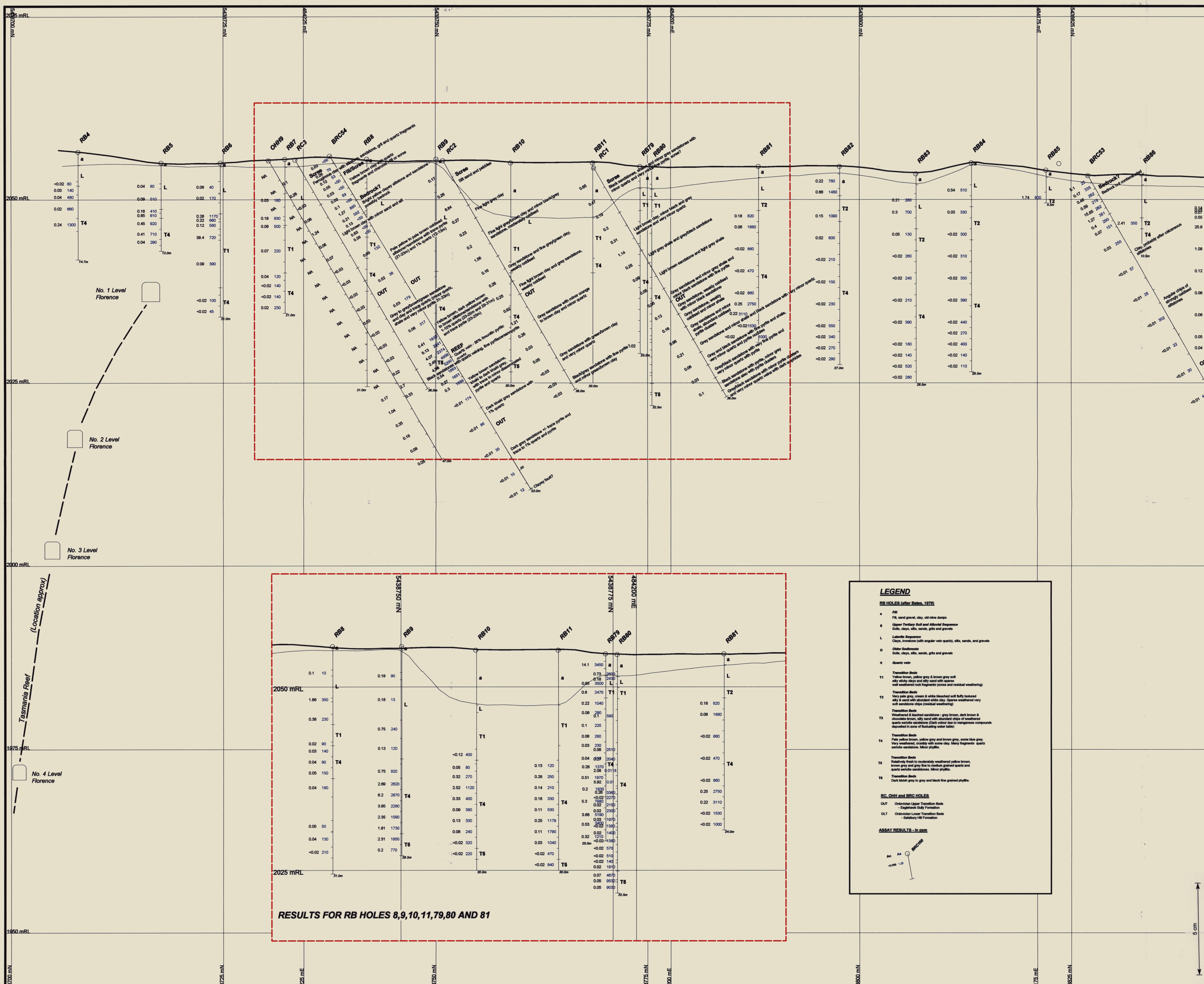
Scale: 1:250
0 5 10 m

BEACONSFIELD MINE JOINT VENTURE

ALLSTATE EXPLORATIONS NL
ACN 000 679 083
(JV MANAGER)

Figure No.: 22

5438600 mN
484200 mE
5438625 mN
5438650 mN
484175 mE
5438675 mN
5438700 mN
484150 mE
5438725 mN
2100 mRL
2075 mRL
2050 mRL
2025 mRL
2000 mRL
RB15
RB16
RB17
RB18
RB19
BRC52
RB20
RB21
RB22
RB23
RB24
RB25
RB26
RB27
RB28
RB29
RB87
RB88
No. 1 Level
No. 2 Level
No. 3 Level
No. 4 Level
No. 5 Level
TASMANIA REEF (Location approx.)
LEGEND
RB HOLES (after Bates, 1979)
RC, DDH and BRC HOLES
ASSAY RESULTS - in ppm
98-4205
ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.
527056
EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
DRILL SECTION
10273mE
BEARING 330 AMG
Date: 26/8/1998
Office: BEACONSFIELD
Author: G. McD.
File: Tr10273.wor
Scale: 1:250
0
5
10 m
5 cm
BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
(JV MANAGER)
Figure No.: 23



98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

527077

EL 7/88- BEACONSFIELD
TASMANIA REEF OPEN CUT PROSPECT
DRILL SECTION
10351mE
BEARING 330 AMG

Date: 26/8/1998 Office: BEACONSFIELD
Author: G. McD. File: Tr10351.wor
Scale: 1:250

BEACONSFIELD MINE JOINT VENTURE
ALLSTATE EXPLORATIONS NL
ACN 000 679 023
(JV MANAGER)

Figure No.: 24

98-4205
Vol. 2 of 2

Allstate

ALLSTATE EXPLORATIONS NL
ACN 000 679 023

98-4205

ANNUAL REPORT - EL 7/88
ALLSTATE EXPLORATIONS NL
G MACDONALD - BFIELD MINE JV.

MANAGING PARTICIPANT IN THE BEACONSFIELD GOLD MINE PROJECT, TASMANIA
LEVEL 3, 76 BERRY STREET, NORTH SYDNEY NSW 2060 TEL: (02) 9957 2391 FAX (02) 9925 0564

EL 7/88 BEACONSFIELD

ANNUAL REPORT

1997 – 98
APPENDICES

Grant MacDonald

Beaconsfield Mine Joint Venture

11 September, 1998

AMG REFERENCE POINTS ADDED

APPENDIX 1

DRILL HOLE LOGS (RC AND DDH)

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B41

Date Started	:	28 July 1997	**Drilled by**	:	Diamond Drilling (Tas.)
Date Completed	:	6 August 1997	**Logged by**	:	J.G. Purvis

Collar			**Hole Details**		
Northing	:	5440787.00	**Final Depth**	:	116.1
Easting	:	482826.25	**Hole Length**	:	116.1
R.L.	:	2066.61	**Core Size**	:	NQ
Dip	:	-59.7			
Bearing	:	350.63			

Purpose

To twin hole BRC/D29 at Pease Creek for a full core intercept of the Pease Creek Anomaly

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S
66.5	76.5	10.0	Quartz veined fault zone with limonitic boxworks	5.78	1.05	36	10	23	1031	0.03

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B41**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								2066.61					5440787.00			482826.25
0	-59.7	350.63	0	17.5	17.5	-0.86	-15.11	2051.50	0.50	8.83	0.99	8.71	5440795.71	-0.16	-1.44	482824.81
35	-60.5	348.5	17.5	45.5	28	-0.87	-24.37	2027.13	0.49	13.79	0.98	13.51	5440809.22	-0.20	-2.75	482822.06
56	-60.5	349	45.5	71	25.5	-0.87	-22.19	2004.94	0.49	12.56	0.98	12.33	5440821.55	-0.19	-2.40	482819.66
86	-61.0	349	71	101	30	-0.87	-26.24	1978.70	0.48	14.54	0.98	14.28	5440835.82	-0.19	-2.78	482816.89
116	-61.0	350	101	116.5	15.5	-0.87	-13.56	1965.14	0.48	7.51	0.98	7.40	5440843.22	-0.17	-1.30	482815.58

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole B41

From	To	Description	Unit	Code	From	To	Rec	RQD	Assays								
							(%)	(%)	From	To	Au	Ag	As	Cu	Pb	Zn	S
0.0	31.4	Triconed in Tertiary gravels and clays - No Core.	OPN	nil	31.4	32.6	93	0	50.0	51.0	<0.01	<1	<1	5	6	10	0.15
					32.6	33.2	72	18	51.0	52.0	<0.01	<1	44	14	7	9	0.24
31.4	67.0	Grey and black fine grained carbonaceous quartzose	OUT	sll	33.2	34.5	76	0	52.0	53.0	<0.01	<1	58	6	7	9	0.22
		sandstone. Massive, oxidised leached and slightly			34.5	35.5	16	0	53.0	54.0	<0.01	<1	50	60	11	17	1.54
		porous. Tiny gashes and pits after carbonate. Grey			35.5	36.2	50	0	54.0	55.0	<0.01	1	23	35	10	20	0.82
		clay seam 43.7 - 45.2m and black pyritic clay seams			36.2	37.4	53	0	55.0	56.0	<0.01	1	16	37	31	23	0.89
		53 - 56m, possibly after limestone. Bedding 25 CA.			37.4	38.3	87	11	56.0	57.5	0.04	<1	24	9	9	16	0.02
		Low angle faults at 33.3m and 58.6 - 59.8m.			38.3	39.2	86	0	57.5	59.0	0.03	<1	71	21	17	13	0.04
		Minor limonite (after pyrite) on fractures, common			39.2	40.7	99	8	59.0	60.5	0.01	<1	93	34	17	13	0.02
		below 56m. 1 - 2% pyrite (disseminated and fracture			40.7	42.2	83	0	60.5	62.0	0.01	<1	54	11	10	11	<0.01
		filling) 50 - 56m. To 63.5m minor leached quartz			42.2	43.7	63	21	62.0	63.5	0.18	<1	9	6	12	10	<0.01
		veinlets to 5mm. Up to 3 per metre at 36.5 - 40.5m.			43.7	45.2	46	35	63.5	65.0	0.25	<1	18	5	<3	6	<0.01
		Main zone of quartz veining starts at 63.5m, with			45.2	46.7	77	23	65.0	66.5	0.46	<1	140	13	<3	8	0.2
		leached limonitic quartz veinlets to 5mm, averaging			46.7	48.2	99	20	66.5	68.0	3.41	1	134	10	7	13	0.06
		5 - 6m and 70 - 80 CA.			48.2	49.7	97	24	68.0	69.5	3.67	1	546	8	<3	12	0.05
		Prominent limonitic fractures occur in this zone with			49.7	51.2	83	22	69.5	71.0	0.95	<1	412	24	6	13	0.01
		remnant pyrite in 7cm clay band at 65m and below			51.2	52.7	83	0	71.0	72.0	2.58	<1	816	38	8	21	0.02
		66m.			52.7	54.2	57	0	72.0	73.0	4.45	1	1189	34	22	27	0.02
					54.2	55.6	62	0	73.0	74.5	21.13	2	1951	40	17	24	0.05
67.0	79.6	Grey and brown limonitic and quartz-veined faulted	OUT	slm	55.6	57.2	81	7	74.5	75.2	1.35	1	1064	44	<3	21	0.01
		zone. Hosted by strongly oxidised calcareous			57.2	58.6	67	8	75.2	76.5	1.00	1	764	44	5	19	<0.01
		quartzose siltstone and sandstone with clay bands			58.6	59.8	53	0	76.5	77.3	0.06	<1	62	13	<3	9	<0.01
		after limestone. Quartz (+/- limonite) veinlets (to			59.8	61.5	32	7	77.3	79.0	0.27	1	45	9	3	12	0.04
		6mm and up to 10mm) generally 70 - 80 CA and			61.5	63.1	91	24	79.0	79.6	0.07	1	97	26	6	16	0.73
		most common above 74m. Numerous strong crush			63.1	64.7	94	17	79.6	81.0	0.32	<1	53	9	50	90	0.02
		zones, often cemented by boxwork limonite and			64.7	66.2	97	31	81.0	82.7	0.28	<1	25	5	26	12	0.02
		containing fragments of the quartz veinlets. The			66.2	67.7	97	36	82.7	83.5	<0.01	<1	17	7	56	47	1.84
		crush zones are either at high angle to CA (up to 15			67.7	69.2	95	20	83.5	85.0	0.07	<1	64	7	22	21	0.62
		cm wide and best developed above 76.5m), or parallel			69.2	70.7	84	0	85.0	86.5	0.22	<1	210	7	20	14	0.54
		to bedding at very low angle to CA (main zones at			70.7	72.2	45	7	86.5	88.0	0.14	<1	89	5	6	14	0.51
		72 - 73m and 75.2 - 76.5m). Remnant pyrite shows			72.2	73.7	92	7	88.0	89.0	<0.01	<1	44	5	8	13	1.16

Hole B41

From	To	Description	Unit	Code	From	To	Rec	RQD	Assays								
							(%)	(%)	From	To	Au	Ag	As	Cu	Pb	Zn	S
		that this is the source of the conspicuous limonite			73.7	75.2	85	38	89.0	90.0	<0.01	<1	49	12	12	15	2.03
		seams, stains and boxworks (rocks highly limonitic			75.2	76.7	84	35	90.0	91.5	<0.01	<1	19	10	18	15	0.66
		70 - 75m). Strong pyritic clayey seam parallel to CA			76.7	78.1	94	9	91.5	93.0	<0.01	<1	45	10	26	14	1.07
		at 79.0 - 79.6m. Bedding varies 0 - 20 CA.			78.1	79.6	94	15	93.0	94.5	0.02	<1	58	6	20	14	0.5
					79.6	81.2	87	7	94.5	96.0	<0.01	<1	11	6	14	14	0.23
		Ground conditions poor; rocks generally soft and			81.2	82.7	93	21	96.0	97.5	0.02	<1	28	4	16	25	0.78
		crumbly.			82.7	84.2	72	11	97.5	98.5	<0.01	<1	8	4	14	15	0.63
					84.2	85.6	99	7	98.5	100.0	<0.01	<1	5	8	28	27	0.32
79.6	116.1	Black, fine to medium grained pyritic carbonaceous	OUT	sll	85.6	87.2	54	19	100.0	101.5	<0.01	<1	76	8	29	47	2.96
		quartzose siltstone and sandstone. Much of the			87.2	88.7	92	15	101.5	103.0	<0.01	<1	27	4	20	20	0.4
		sequence was apparently originally calcareous with			88.7	90.1	69	0	103.0	104.5	<0.01	<1	19	8	20	28	0.59
		beds of limestone but carbonate now destroyed and/			90.1	91.1	93	0	104.5	106.0	<0.01	<1	18	7	20	23	0.45
		or leached by oxidation, leaving these rocks rotten			91.1	92.1	55	0	106.0	107.5	<0.01	<1	21	7	10	18	0.47
		and crumbly. More-quartzose rocks are still hard,			92.1	93.0	58	0	107.5	109.7	0.01	<1	29	7	10	16	0.33
		although fractured and slightly leached. Bedding			93.0	94.7	45	0	109.7	111.3	0.48	<1	346	5	9	15	0.55
		10 - 15 CA (range 0 - 40 CA). Spidery leached			94.7	95.5	51	0	111.3	113.0	0.05	<1	59	9	39	29	0.94
		quartz veinlets (+/- limonite or pyrite) extend to 88m			95.5	97.0	92	7	113.0	114.5	<0.01	<1	20	18	12	30	0.54
		decreasing with depth (Fringe of zone in unit above).			97.0	98.5	95	18	114.5	116.1	<0.01	<1	25	18	10	33	0.39
		From 109.7 - 111.3m, zone of leached broken-up			98.5	100.0	71	7									
		quartz veins (+/- pyrite) to 10mm thick and parallel to			100.0	101.1	102	0									
		CA. Prominent pyrite on fractures abundant 82.7 -			101.1	102.2	85	0									
		83.5m and around 101m). also in tiny veinlets and			102.2	103.7	100	0									
		disseminations. Generally pyrite varies from 1 - 5%			103.7	104.7	95	0									
		with zones of +2% pyrite as follows: above 85.5m			104.7	105.4	76	0									
		(partly oxidised to limonite), 88 - 90m and 98.5 -			105.4	106.9	97	15									
		101.5m.			106.9	108.0	75	0									
					108.0	109.5	103	25									
		Ground conditions poor, with blocky fracturing and			109.5	111.1	93	19									
		numerous crumbly finely shattered clayey zones at			111.1	112.2	84	9									
		low angle to CA. These latter are apparently faults			112.2	113.7	97	14									
		along rotten carbonate horizons.			113.7	115.2	90	8									
					115.2	116.1	120	0									
		E.O.H. at 116.1m.															

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B42

Date Started	:	8 August 1997	**Drilled by**	:	Diamond Drilling (Tas.)
Date Completed	:	25 August 1997	**Logged by**	:	J.G. Purvis

Collar

Northing	:	5440802.60
Easting	:	482865.94
R.L.	:	2065.13
Dip	:	-60
Bearing	:	354.45

Hole Details

Final Depth	:	149.6		
Hole Length	:	149.6		
Core Size	:	0.0	23.3	Tricone
		23.3	101.0	HQ
		101.0	149.6	NQ

Purpose

Test for the strike extent of mineralisation identified in hole B41 at Pease Creek.

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

None of significance

Survey Sheet

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B42**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								2065.13					5440802.60			482865.94
0	-60.0	354.45	0	14.5	14.5	-0.87	-12.56	2052.57	0.50	7.25	1.00	7.22	5440809.82	-0.10	-0.70	482865.24
29	-62.0	354	14.5	44	29.5	-0.88	-26.05	2026.53	0.47	13.85	0.99	13.77	5440823.59	-0.10	-1.45	482863.79
59	-61.5	354	44	74	30	-0.88	-26.36	2000.16	0.48	14.31	0.99	14.24	5440837.83	-0.10	-1.50	482862.29
89	-61.0	354	74	104	30	-0.87	-26.24	1973.92	0.48	14.54	0.99	14.46	5440852.29	-0.10	-1.52	482860.77
119	-61.0	354	104	134	30	-0.87	-26.24	1947.68	0.48	14.54	0.99	14.46	5440866.76	-0.10	-1.52	482859.25
149	-61.5	355	134	149.6	15.6	-0.88	-13.71	1933.97	0.48	7.44	1.00	7.42	5440874.17	-0.09	-0.65	482858.60

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole B42

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
0.0	23.3	Triconed. No core.	OPN	nil	23.3	24.2	94	16	52.5	54.5	<0.01	<1	2	<2	3	9	0.06
					24.2	27.2	53	13	54.5	56.0	<0.01	<1	1	<2	30	<2	0.05
23.3	51.6	Tertiary sands, silts, clays and lignite bands. Pale	TER	grv	27.2	28.7	98	17	56.0	57.5	<0.01	<1	7	11	8	14	0.02
		fawny-brown, soft but compact. Sands largely quartz			28.7	30.2	62	45	57.5	59.0	<0.01	<1	6	3	7	8	0.10
		with minor mica and lignitic material. Lignite bands			30.2	33.2	33	19	59.0	60.5	<0.01	<1	5	6	20	69	0.85
		to 60 cm thick. Minor thin gravel horizons of quartz			33.2	34.7	71	47	60.5	62.0	<0.01	<1	10	7	13	60	0.54
		and Ordovician sediment pebbles, generally 5 - 10			34.7	36.2	45	10	62.0	63.5	<0.01	<1	15	12	17	74	0.98
		mm, but 20 cm bed at 23.3 m contains cobbles to			36.2	37.6	64	0	63.5	65.0	<0.01	<1	8	5	29	94	0.73
		+60 mm. Bedding 50 - 60 CA.			37.6	39.2	87	28	65.0	66.5	<0.01	<1	19	14	27	61	0.86
					39.2	40.7	101	83	66.5	68.0	<0.01	<1	25	28	41	68	0.78
51.6	52.5	Palaeosiol on Ordovician sandstone. Dark brown	TER	soi	40.7	42.2	107	32	68.0	69.5	<0.01	<1	6	15	34	111	0.34
		organic-rich clay and sand, with crumbly fragments			42.2	45.2	53	42	69.5	71.0	<0.01	<1	40	5	18	106	0.21
		of quartzose sandstone.			45.2	46.7	93	64	71.0	72.0	<0.01	<1	1	2	14	30	0.41
					46.7	48.2	78	55	72.0	73.5	<0.01	<1	9	9	51	77	0.10
52.5	87.0	Partly sheared pale grey, fine grained quartzose	OUT	sll	48.2	49.7	103	0	73.5	75.0	<0.01	<1	1	15	37	67	0.08
		sandstone and lesser siltstone. Bedding 10 - 45 CA,			49.7	51.2	90	43	75.0	76.5	<0.01	<1	2	9	18	70	0.15
		averge 25 CA. Common bedded clayey shear zones			51.2	52.7	95	50	76.5	78.0	<0.01	<1	9	3	<3	44	0.11
		typically 1 - 10 cm wide but up to 1.5m (68.0 - 69.5m)			52.7	54.2	91	22	78.0	79.5	<0.01	<1	7	4	9	75	0.26
		Shears more frequent below 72m and very common			54.2	55.7	51	0	79.5	81.0	<0.01	<1	15	11	4	77	0.25
		below 80m, with some apparently in calcareous			55.7	57.2	24	0	81.0	82.5	<0.01	<1	22	12	8	81	0.37
		horizons. Little veining - some leached fractures			57.2	58.2	57	0	82.5	84.0	<0.01	<1	16	15	5	141	0.25
		originally had carbontae veinlets on them. Brown			58.2	60.6	88	18	84.0	85.5	<0.01	<1	24	5	9	92	0.3
		MnOx and FeOx stains to 72m, especially on			60.6	61.7	54	9	85.5	87.0	<0.01	<1	12	26	27	73	0.21
		fractures, with boxworks at 63m. Minor to 1% pyrite			61.7	62.8	75	13	87.0	88.2	<0.01	<1	12	9	17	51	0.18
		and rare arsenopyrite, disseminated and on fractures			62.8	64.4	66	0	88.2	91.7	<0.01	<1	16	8	19	50	0.31
					64.4	65.4	78	12	91.7	93.2	0.04	<1	213	6	9	52	0.34
		Ground conditions poor to very poor. Rock oxidized,			65.4	66.0	70	0	93.2	94.2	<0.01	<1	26	8	11	53	0.27
		leached and generally crumbly with rubble zones.			66.0	67.8	70	0	94.2	95.2	<0.01	<1	63	4	<3	38	0.16
					67.8	69.2	51	0	95.2	96.7	<0.01	<1	15	3	9	42	0.07
87.0	95.2	Fault zone. Sheared and shattered sandstone-	OUT	sll	69.2	71.2	94	0	96.7	98.2	<0.01	<1	16	7	7	47	0.13
		siltstone as above. Some yellow-brown oxidised			71.2	72.0	59	0	98.2	99.7	<0.01	<1	5	7	5	56	0.13

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
		limestone below 92.2m. Shearing angles 25 - 40 CA.			72.0	73.5	67	0	99.7	101.2	<0.01	<1	9	6	10	52	0.11
		Ground conditions very poor, with rubble and			73.5	75.8	49	5	101.2	102.7	<0.01	<1	10	11	12	53	0.15
		significant core loss (no core 88.2 - 90.2m).			75.8	77.1	75	0	102.7	104.2	<0.01	<1	21	8	23	45	0.19
					77.1	78.2	90	0	104.2	105.2	<0.01	<1	6	9	31	74	0.11
95.2	112.2	Pale grey, partly sheared fine - medium grained	OUT	sll	78.2	78.5	123	0	105.2	107.0	0.25	<1	186	4	12	47	0.23
		quartzose siltstone and sandstone. Weakly			78.5	80.1	90	0	107.0	109.0	<0.01	<1	80	6	13	70	0.13
		calcareous below 100m where rock largely			80.1	81.1	51	0	109.0	111.0	<0.01	<1	10	9	19	90	0.38
		unoxidised. Common thin sericitic shears 20 CA and			81.1	82.1	91	0	111.0	112.2	<0.01	<1	<1	12	23	88	0.46
		crumbly cataclasite.			82.1	83.1	85	10	112.2	114.2	<0.01	<1	18	14	98	92	1.29
		105.2 - 107.0m: Dark grey irregular quartz veinlets			83.1	84.4	44	0	114.2	116.2	<0.01	<1	7	8	10	57	0.19
		with graphite and minor pyrite-arsenopyrite.			84.4	85.3	101	0	116.2	118.2	<0.01	<1	30	10	15	56	0.13
		Abundant carbonate microveinlets some in net-veined			85.3	86.4	39	0	118.2	120.2	<0.01	<1	8	9	<3	64	0.08
		zones. Minor pyrite and trace arsenopyrite.			86.4	87.7	55	0	120.2	122.2	<0.01	<1	6	14	34	78	0.32
					87.7	88.2	48	0	122.2	124.2	<0.01	<1	2	12	15	50	0.19
		Ground condition poor - broken, some rubble and			88.2	90.2	0	0	124.2	125.1	<0.01	<1	3	6	<3	43	0.2
		core loss.			90.2	91.7	17	0	125.1	126.7	<0.01	<1	27	13	25	102	0.2
					91.7	92.1	105	0	126.7	128.0	<0.01	<1	7	14	13	55	0.38
112.2	128.0	Fault zone. Rotten, clayey, crushed and shattered	OUT	sll	92.1	92.8	77	0	128.0	130.0	<0.01	<1	2	10	<3	29	0.16
		rock: A major fault zone in siltstone-sandstone as			92.8	93.8	71	0	130.0	132.0	<0.01	<1	12	4	4	33	0.11
		above and limestone. Shearing 20 - 30 CA.			93.8	94.7	69	18	132.0	134.0	<0.01	<1	6	6	9	64	0.4
		Abundant tiny net-veinlets of carbonate.			94.7	95.2	60	0	134.0	135.2	<0.01	<1	3	6	3	34	0.05
		125.1 - 126.7: Band of grey-black carbonaceous			95.2	96.5	89	0	135.2	137.2	<0.01	<1	6	5	<3	31	0.04
		siltstone 15 CA Persistent minor to 1% pyrite			96.5	97.7	81	9	137.2	138.4	<0.01	<1	14	6	3	36	0.05
		(and arsenopyrite?) veinlets and disseminations.			97.7	98.3	63	0	138.4	139.2	<0.01	<1	12	12	9	49	0.34
					98.3	99.2	86	0	139.2	141.2	0.05	<1	34	10	4	30	0.41
		Ground conditions extremely poor - much rubble and			99.2	99.8	80	0	141.2	142.7	<0.01	<1	5	7	7	25	0.25
		clay with >50% core loss 115.7 - 121.0m.			99.8	101.0	96	0	142.7	144.2	<0.01	<1	4	10	<3	31	0.12
					101.0	102.2	52	0	144.2	146.0	<0.01	<1	2	16	<3	28	0.17
128.0	149.6	Partly faulted pale grey, fine to medium grained	OUT	sll	102.2	102.8	30	0	146.0	148.0	<0.01	<1	<1	8	8	29	0.19
		quartzose siltstone and sandstone. Beds of			102.8	104.2	102	25	148.0	149.6	<0.01	<1	3	10	<3	21	0.22
		limestone, oxidised above 140m. Grey-black			104.2	105.8	86	31									
		carbonaceous siltstone 138.0 - 139.2m. Bedding			105.8	106.7	63	0									
		20 - 25 CA with local warping and rare folding.			106.7	108.1	80	10									

Hole **B42**

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
		Common brittle faults, sericitic shears and highly			108.1	109.0	19	0									
		microfractured zones. Deformation decreases below			109.0	110.5	71	0									
		140m. Most faults <30 CA, strongest 135.2 - 137.2,			110.5	111.1	48	17									
		138.4 - 139.2m and 142.7 - 144.2m. Shears mainly			111.1	111.8	47	0									
		below 144m parallel to bedding. Intense carbonate			111.8	112.5	57	0									
		net-veining fills the microfractures. To 142m, minor			112.5	113.3	64	0									
		to 1% pyrite disseminated and in tiny veinlets. Rare			113.3	115.1	28	9									
		quartz veinlets below 137.0m.			115.1	115.7	58	0									
					115.7	116.7	12	0									
		Ground conditions fair but intervals of puggy rubble			116.7	117.2	56	0									
		and core loss. Conditions improve below 140m and			117.2	117.8	22	0									
		rock is hard.			117.8	118.4	25	0									
					118.4	119.2	8	0									
		E.O.H at 149.6m.			119.2	119.8	85	0									
					119.8	120.2	37	0									
					120.2	121.0	54	0									
					121.0	122.2	97	19									
					122.2	123.6	88	57									
					123.6	125.2	48	8									
					125.2	126.2	73	0									
					126.2	127.5	78	21									
					127.5	129.1	91	43									
					129.1	130.7	90	15									
					130.7	131.5	74	19									
					131.5	132.2	77	49									
					132.2	133.7	98	38									
					133.7	135.2	95	49									
					135.2	136.6	6	0									
					136.6	137.2	32	0									
					137.2	138.2	82	22									
					138.2	139.2	24	10									
					139.2	140.2	91	16									
					140.2	141.2	95	57									

[redacted]

Hole **B42**

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
					141.2	142.7	100	37									
					142.7	144.2	25	7									
					144.2	144.8	83	20									
					144.8	145.6	95	0									
					145.6	146.4	99	20									
					146.4	147.2	88	18									
					147.2	148.1	100	0									
					148.1	149.6	101	29									

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B43

Date Started	:	28 August 1997	**Drilled by**	:	Diamond Drilling (Tas.)
Date Completed	:	9 September 1997	**Logged by**	:	J.G. Purvis

Collar

Northing	:	5440854.55
Easting	:	482808.57
R.L.	:	2060.78
Dip	:	-54.5
Bearing	:	167.99

Hole Details

Final Depth	:	119.1		
Hole Length	:	119.1		
Core Size	:	0.0	24.0	Tricone
		24.0	74.5	HQ
		74.5	119.1	NQ

Purpose

Cross-over hole for B41 at Pease Creek to ascertain the true thickness of the mineralised zone intersected in that hole.

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S
45.0	53.8	8.8	Quartzose sandstone with limonitic boxworks after pyrite	1.49	<1	34	20	15	121	0.02
Including										
45.0	47.8	2.8		2.37	<1	91	48	29	270	0.03

Survey Sheet

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B43**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								2060.78					5440854.55			482808.57
0	-54.5	167.99	0	15	15	-0.81	-12.21	2048.57	0.58	8.71	-0.98	-8.52	5440846.03	0.21	1.81	482810.38
30	-55.0	166	15	45	30	-0.82	-24.57	2024.00	0.57	17.21	-0.97	-16.70	5440829.33	0.24	4.16	482814.54
60	-55.5	166.5	45	75	30	-0.82	-24.72	1999.27	0.57	16.99	-0.97	-16.52	5440812.81	0.23	3.97	482818.51
90	-55.0	167	75	104.5	29.5	-0.82	-24.16	1975.11	0.57	16.92	-0.97	-16.49	5440796.32	0.22	3.81	482822.32
119	-55.0	167	104.5	119.1	14.6	-0.82	-11.96	1963.15	0.57	8.37	-0.97	-8.16	5440788.16	0.22	1.88	482824.20

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole **B43**

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
0.0	24.0	Triconed. No core.	OPN	nil	24.0	25.5	45	26	28.9	30.4	0.47	<1	41	5	6	25	<0.01
					25.5	27.1	92	84	30.4	31.9	0.33	<1	2	4	5	12	<0.01
24.0	28.2	Tertiary Clays, Silts and Sands. Pale brown.	TER	grv	27.1	28.6	103	92	31.9	33.4	0.21	<1	27	5	<3	19	<0.01
		Lignite band 25.3-25.5m. Some gravel at 24m.			28.6	30.0	79	0	33.4	34.9	0.17	<1	7	5	5	12	<0.01
		Condition: Sticky and soft, but compact.			30.0	31.3	87	0	34.9	36.4	0.13	<1	39	3	4	14	<0.01
					31.3	32.3	106	15	36.4	37.9	0.09	<1	49	4	5	16	<0.01
28.2	44.0	Pale fawny-grey, strongly oxidized and leached,	OUT	sll	32.3	33.6	69	12	37.9	39.4	0.28	<1	30	4	8	17	<0.01
		fine to medium grained Quartzose Siltstone and			33.6	35.2	44	0	39.4	40.9	0.46	<1	55	4	5	13	<0.01
		Sandstone. Probably originally partly calcareous			35.2	36.5	102	44	40.9	42.4	0.01	<1	31	3	3	8	<0.01
		with limestone beds, these zones now rotten and			36.5	38.1	58	7	42.4	43.9	0.25	<1	21	5	5	6	<0.01
		clayey. Bedding 30-40 CA. Very minor limonite			38.1	39.1	54	14	43.9	45.0	0.81	<1	212	29	34	16	<0.01
		stains below 39.4m.			39.1	40.6	53	0	45.0	47.8	2.37	<1	270	91	48	29	0.03
					40.6	42.1	81	7	47.8	49.3	0.31	<1	<1	7	11	10	0.01
		Ground conditions poor - soft, crumbly and clayey.			42.1	43.6	23	0	49.3	50.8	1.26	<1	89.0	6	4	6	<0.01
					43.6	45.1	44	0	50.8	52.3	1.31	<1	<1	8	4	8	0.03
44.0	57.1	Dark grey, fine to medium grained Limonitic	OUT	slm	45.1	46.6	39	0	52.3	53.8	1.45	<1	118.0	6	7	8	0.02
		Quartzose Sandstone. Originally partly calcareous			46.6	48.1	39	8	53.8	55.7	<0.01	<1	38	7	10	7	0.01
		and carbonaceous, now mildly oxidized and leached.			48.1	49.6	84	24	55.7	57.1	<0.01	<1	98.0	13	16	11	0.06
		Some puggy bedded clay zones, probably after			49.6	51.1	93	0	57.1	58.6	0.04	<1	34	15	13	19	0.27
		limestone. Prominent limonite stains and boxworks			51.1	52.6	98	0	58.6	60.1	<0.01	<1	20	17	9	18	0.81
		on fractures at all angles, especially 45-47.8m			52.6	54.1	50	7	60.1	61.6	<0.01	<1	1	13	9	16	0.67
		and 55.7-57.1m. Quartz veinlets to 5mm, <10 CA,			54.1	55.6	93	8	61.6	63.1	<0.01	<1	26	17	11	11	0.27
		occur at intervals. Zones of abundant tiny carbonate			55.6	57.1	78	13	63.1	64.1	<0.01	<1	2	21	18	16	0.35
		net-veinlets. Bedding 55-65 CA.			57.1	58.4	92	17	64.1	65.1	<0.01	<1	3	22	17	15	0.61
					58.4	60.0	96	19	65.1	66.6	<0.01	<1	4	14	5	7	0.03
		Ground condition fair to poor. Common breaking			60.0	61.6	92	0	66.6	68.8	<0.01	<1	1	12	5	6	0.04
		along fractures, with some rubble zones			61.6	63.1	91	28	68.8	70.0	<0.01	<1	<1	8	4	8	0.12
		.			63.1	64.6	85	0	70.0	71.5	0.09	<1	31	13	<3	12	0.33
57.1	65.1	Grey to black, bedded, leached Calcareous	OUT	sll	64.6	66.1	91	15	71.5	73.0	0.08	<1	<1	8	10	15	0.25
		Sandstone and Limestone. Minor beds of Black			66.1	66.9	89	0	73.0	74.5	<0.01	<1	24	9	11	8	0.11
		Shale. Rock porous and slightly clayey.			66.9	67.6	84	0	74.5	76.0	<0.01	<1	<1	16	6	13	0.23

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
		Bedding 55-65 CA. Almost no veining. Minor to 1%			67.6	69.1	92	19	76.0	77.5	0.02	<1	15	5	8	16	0.19
		disseminated and fracture-filling pyrite.			69.1	70.6	93	14	77.5	79.0	0.01	<1	3	8	9	13	0.19
					70.6	71.8	103	0	79.0	80.5	<0.01	<1	20	6	3	12	0.18
		Ground conditions fair, with common fracturing and			71.8	72.6	103	13	80.5	82.0	<0.01	<1	21	5	6	10	0.12
		crumbly clayey zones after limestone.			72.6	74.0	92	26	82.0	83.5	<0.01	<1	28	4	9	11	0.17
					74.0	74.5	94	0	83.5	86.0	0.07	<1	41	6	8	13	0.55
65.1	87.5	Massive, fine-medium grained, black Carbonaceous	OUT	sll	74.5	75.1	77	0	86.0	87.5	0.16	<1	241	4	8	20	7.46
		Quartzose Sandstone. Generally weakly leached			75.1	76.6	89	7	87.5	88.5	0.01	<1	52	10	13	26	1.88
		and oxidized. Bedding (uncommon) 55-60 CA.			76.6	78.1	97	8	88.5	90.0	<0.01	<1	214	9	24	38	0.26
		Strong limonite stains (after pyrite) 65.1-70m.			78.1	79.3	98	21	90.0	91.5	<0.01	<1	47	4	16	28	0.13
		1% pyrite on fractures below 75m, with 5-7% pyrite			79.3	80.6	92	9	91.5	93.0	<0.01	<1	52	8	16	42	0.22
		in veins to 25mm thick at 86-87.5m (strongest veins			80.6	82.2	94	31	93.0	95.0	<0.01	<1	132	6	9	40	0.18
		are parallel CA and contain quartz). Quartz-sericite			82.2	83.8	89	7	95.0	97.0	<0.01	<1	36	223	9	186	0.1
		veinlets parallel CA at 69.6-70.6m. Below 82.7m			83.8	85.3	45	0	97.0	99.0	<0.01	<1	<1	74	5	87	0.09
		very common quartz veinlets at all angles.			85.3	86.0	23	0	99.0	101.0	<0.01	<1	6	47	4	72	0.14
					86.0	86.6	87	18	101.0	103.0	<0.01	<1	2	4	<3	33	0.09
		Ground conditions fair to 83m with common			86.6	87.2	90	22	103.0	105.0	<0.01	<1	3	5	19	35	0.24
		fracturing. Below 83m increasingly leached and			87.2	88.7	83	0	105.0	107.0	<0.01	<1	1	9	5	38	0.2
		porous, with badly broken zones and core loss.			88.7	89.4	104	0	107.0	109.0	<0.01	<1	13	8	4	41	0.81
					89.4	90.7	90	0	109.0	111.0	<0.01	<1	5	34	7	41	0.31
87.5	93.0	Bedded decomposed Quartzose Sandstone and	OUT	sll	90.7	91.7	79	0	111.0	112.5	0.02	<1	19	73	23	83	0.43
		Siltstone. Dark grey at top and light grey at base			91.7	93.1	78	0	112.5	114.0	0.02	<1	5	3	6	20	0.51
		due to increasing leaching and bleaching with depth.							114.0	115.5	0.02	<1	1	5	<3	27	0.68
		Originally calcareous with Limestone beds, but all							115.5	117.5	0.02	<1	<1	5	<3	26	0.06
		carbonate now leached and limestone decomposed							117.5	119.1	0.01	<1	<1	4	14	51	0.07
		to sandy clay. Bedding 55 CA. In upper 1m 1-2%															
		pyrite and quartz veinlets. No veining elsewhere.															
		Ground conditions poor - numerous soft crumbly															
		zones and fractures at all angles.															
93.0	112.3	Major fault? Creamy-grey, highly decomposed,	OUT	sll													
		leached and bleached, badly broken zone. Sand															

Hole **B43**

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
		and clay 103.7-111m. Much CO2 gas produced 96-102m and all water drained from hole at this depth. Original rock apparently Limestone and Calcareous Quartzose Sandstone. No clear evidence of shearing or brecciation - sand and clay intervals are bedded and rarely contain undisturbed remanent shale bands. Trace to minor pyrite, except 111-111.6m: zone of pyritic fractures (1-2% py) and (separate) quartz veinlets, both almost parallel CA.															
		Ground conditions extremely poor. Much core loss.															
112.3	119.1	Creamy-grey, partly-decomposed fine Quartzose Sandstone. Generally leached and porous - original rock probably partially calcareous. Small gashes after carbonate veinlets. To 115.5m patches to 50cm of 2% pyrite in veinlets associated with silicification and quartz veinlets <30 CA.	OUT	sll													
		Ground conditions poor: broken, with minor sandy-clay bands (after limestone).															
		EOH at 119.1m.															

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B44

Date Started :	2 October 1997	**Drilled by** :	Diamond Drilling (Tas.)
Date Completed :	24 October 1997	**Logged by** :	J.G. Purvis

Collar

Northing :	5440740.86
Easting :	482887.20
R.L. :	2058.26
Dip :	-59.8
Bearing :	349.65

Hole Details

Final Depth :	239.6		
Hole Length :	239.6		
Core Size :	0.0	28.7	Tricone
	28.7	239.6	HQ

Purpose

Further delineation of anomalous gold mineralisation at Pease Creek

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S
137.8	143.7	5.9	Zone of intense quartz ankerite veining	1.53	1.17	7	38	488	1881	1.39

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B44**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								2058.26					5440740.86			482887.20
0	-59.8	349.65	0	17.5	17.5	-0.86	-15.12	2043.13	0.50	8.80	0.98	8.66	5440749.52	-0.18	-1.58	482885.62
35	-60.5	351.5	17.5	50	32.5	-0.87	-28.29	2014.84	0.49	16.00	0.99	15.83	5440765.35	-0.15	-2.37	482883.26
65	-61.5	351	50	80.5	30.5	-0.88	-26.80	1988.04	0.48	14.55	0.99	14.37	5440779.72	-0.16	-2.28	482880.98
96	-62.2	352	80.5	112	31.5	-0.88	-27.86	1960.18	0.47	14.69	0.99	14.55	5440794.27	-0.14	-2.04	482878.94
128	-63.0	351.5	112	142	30	-0.89	-26.73	1933.45	0.45	13.62	0.99	13.47	5440807.74	-0.15	-2.01	482876.92
156	-63.0	352	142	171	29	-0.89	-25.84	1907.61	0.45	13.17	0.99	13.04	5440820.78	-0.14	-1.83	482875.09
186	-62.5	352	171	198.5	27.5	-0.89	-24.39	1883.21	0.46	12.70	0.99	12.57	5440833.35	-0.14	-1.77	482873.32
211	-62.0	352.5	198.5	225	26.5	-0.88	-23.40	1859.82	0.47	12.44	0.99	12.33	5440845.69	-0.13	-1.62	482871.70
239	-62.5	351	225	239.6	14.6	-0.89	-12.95	1846.86	0.46	6.74	0.99	6.66	5440852.35	-0.16	-1.05	482870.64

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole B44

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
0.0	28.7	Triconed - no core.Tertiary gravels, silts and clays.	TER	grv	28.7	30.1	79	0	28.7	30.0	<0.01	<1	1	4	<3	13	0.02
					30.1	31.6	55	0	30.0	31.5	<0.01	<1	<1	2	<3	14	0.04
28.7	38.5	Brown, strongly oxidized fine grained quartzose	OUT	sll	31.6	32.9	77	0	31.5	33.0	0.01	<1	<1	5	<3	12	0.05
		sandstone and siltstone. Badly decomposed -			32.9	33.9	77	10	33.0	34.5	0.01	<1	2	3	<3	25	0.06
		leached and porous with soft clayey sections.			33.9	35.5	54	0	34.5	36.0	0.02	<1	<1	22	<3	50	0.04
		Brown MnOx stains and on fractures. Bedding 15CA.			35.5	37.0	105	0	36.0	37.5	0.03	<1	6	3	4	26	0.02
		Some 2mm quartz veinlets. Abrupt limit to strong			37.0	38.5	80	0	37.5	38.5	0.02	<1	10	4	<3	33	0.02
		oxidation at base.			38.5	39.4	31	0	38.5	40.0	0.06	<1	4	21	10	16	1.06
					39.4	40.7	82	0	40.0	41.5	0.02	<1	4	12	10	2	0.40
		Ground conditions: poor. Generally badly broken.			40.7	42.1	96	14	41.5	43.0	0.01	<1	3	9	6	3	0.08
					42.1	43.6	104	0	43.0	44.5	<0.01	<1	4	18	<3	6	0.07
38.5	99.5	Grey-black, fine grained, pyritic, carbonaceous,	OUT	sll	43.6	45.1	51	0	44.5	46.0	<0.01	<1	2	7	24	26	0.57
		quartzose sandstone and siltstone. Crumbly			45.1	45.7	85	17	46.0	47.5	<0.01	<1	13	6	22	10	0.19
		clayey bands (1-2m) after decomposed limestone.			45.7	46.7	100	0	47.5	49.0	<0.01	<1	31	8	11	6	0.28
		Bedding 20-30 CA. Minor to locally very common			46.7	48.1	107	0	49.0	50.5	<0.01	<1	32	10	34	31	0.32
		vuggy comb-structured quartz veinlets at high angle			48.1	49.6	102	0	50.5	52.0	<0.01	<1	22	10	31	25	0.60
		to CA. Some contain muscovite, but rarely pyrite			49.6	51.1	91	27	52.0	53.5	0.05	<1	42	7	43	17	0.38
		although veinlets are often concentrated in areas of			51.1	52.6	87	9	53.5	55.0	<0.01	<1	17	7	30	12	0.20
		pyritic fracturing. Oxidation limited to leaching of all			52.6	53.4	89	0	55.0	56.5	<0.01	<1	34	12	29	35	0.32
		carbonate, and limonite (with pyrite) on fractures to			53.4	54.9	97	16	56.5	58.0	<0.01	<1	47	18	7	71	0.48
		44m. Common pyrite throughout (averaging 1-3%)			54.9	55.8	94	0	58.0	59.5	<0.01	<1	9	9	8	53	0.07
		as veinlets, on fractures and disseminations. Rock			55.8	57.1	76	0	59.5	61.0	<0.01	<1	5	4	17	51	0.05
		smells strongly of sulphides and may contain more			57.1	58.6	96	0	61.0	62.5	<0.01	<1	7	7	16	40	0.10
		pyrite as ultra-fine invisible disseminations. Fracture/			58.6	60.1	105	0	62.5	64.0	<0.01	<1	4	8	21	35	0.17
		veinlet pyrite is locally abundant, eg; 38.5-40.5m, 51-			60.1	61.6	91	0	64.0	65.5	<0.01	<1	11	7	38	23	0.08
		54m, 81.8-83.8m, 87.2-92.5m and below 96m. Some			61.6	62.6	77	0	65.5	67.0	0.12	<1	224	8	46	22	0.29
		decomposed limestone bands contain up to 5%			62.6	63.6	96	0	67.0	68.5	0.14	<1	3	7	45	29	0.20
		sooty pyrite, eg: 55.8-57.1m.			63.6	64.7	99	0	68.5	70.0	<0.01	<1	33	5	26	14	0.11
					64.7	66.1	106	0	70.0	71.5	0.04	<1	66	8	43	28	0.16
		Ground conditions: fair to poor. Generally well-			66.1	67.1	95	10	71.5	73.0	0.20	<1	109	9	27	29	0.30
					67.1	68.1	93	0	73.0	74.5	0.35	<1	12	8	62	45	0.36

Hole B44

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
		fractured and broken, with crumbly clayey bands -			68.1	69.1	109	10	74.5	76.0	<0.01	<1	9	4	76	42	0.13
		largest 83.8-87.2m (water return lost here).			69.1	70.6	94	0	76.0	77.5	<0.01	<1	6	6	54	34	0.81
					70.6	71.9	95	0	77.5	79.0	<0.01	<1	5	5	48	32	0.12
99.5	100.5	Low angle (15 CA) mineralized fault in decomposed	OUT	sll	71.9	72.5	87	0	79.0	80.5	<0.01	<1	7	5	22	25	0.11
		sandstone. Crumbly, leached and porous quartz-			72.5	74.0	96	15	80.5	82.0	<0.01	<1	6	5	54	24	0.21
		pyrite veined sandstone with 30cm vuggy band of			74.0	75.1	94	0	82.0	83.5	<0.01	<1	10	7	54	21	0.15
		quartz-pyrite cemented breccia. Overall: 5-7% pyrite.			75.1	76.6	99	0	83.5	85.0	<0.01	3	12	23	11	52	0.26
					76.6	78.1	94	7	85.0	86.5	<0.01	1	14	30	15	64	0.31
100.5	124.6	Dark grey-black fine grained pyritic carbonaceous	OUT	sll	78.1	79.1	98	0	86.5	88.0	<0.01	<1	5	19	11	95	0.23
		quartzose sandstone. Generally massive (bedding			79.1	80.7	96	0	88.0	89.5	<0.01	<1	8	8	5	17	0.35
		20-30 CA). Variably porous due to leaching of			80.7	82.2	102	7	89.5	91.0	<0.01	<1	9	6	13	27	0.28
		carbonate. Occasional thin crumbly decomposed			82.2	83.8	81	0	91.0	92.5	<0.01	<1	7	16	9	73	0.62
		limestone beds. Minor vuggy quartz veinlets at right			83.8	85.0	68	0	92.5	94.0	<0.01	1	9	21	<3	79	0.27
		angles to bedding. About 2% visible pyrite, most			85.0	86.5	36	0	94.0	95.5	<0.01	<1	15	20	5	68	0.25
		commonly on fractures, also as disseminations and			86.5	87.2	123	0	95.5	97.0	<0.01	<1	10	6	<3	109	0.17
		veinlets. But rock smells of sulphides and there may			87.2	88.6	69	0	97.0	98.5	<0.01	<1	11	6	7	69	0.20
		be more pyrite as ultra-fine disseminations. 3-5%			88.6	89.8	94	0	98.5	99.5	<0.01	<1	20	5	<3	46	0.27
		sooty pyrite in some limestones (eg: 116.5-117.5m).			89.8	90.6	119	0	99.5	100.5	0.30	2	1148	12	58	98	2.81
		Occasional graphitic partings.			90.6	91.7	78	0	100.5	101.5	0.02	1	82	7	16	28	1.28
					91.7	93.1	84	7	101.5	102.5	<0.01	1	24	7	29	38	0.65
		Ground conditions: fair to poor. Broken by planar			93.1	94.0	100	0	102.5	103.5	0.01	<1	20	10	20	35	0.31
		fractures and crumbly rubble zones.			94.0	95.1	85	0	103.5	104.5	<0.01	1	13	16	52	103	0.37
					95.1	96.1	89	0	104.5	105.5	<0.01	1	30	11	19	67	0.31
124.6	131.8	Pyritic and veined fault in sandstone.	OUT	sll	96.1	97.6	93	0	105.5	106.5	<0.01	1	18	10	23	47	0.16
		Faulted, fractured and broken zone in dark leached			97.6	99.1	100	27	106.5	107.5	0.01	1	14	16	22	61	0.25
		sandstone as above. Conspicuous pyritic fractures			99.1	100.1	90	10	107.5	108.5	<0.01	1	13	19	20	55	0.27
		and veinlets (strongest 20-30 CA) and common			100.1	101.6	76	0	108.5	109.5	<0.01	1	15	12	18	80	0.56
		spidery quartz veinlets (usually +60 CA). Very minor			101.6	101.8	155	0	109.5	110.5	<0.01	1	13	8	19	55	0.45
		irregular ankerite (-quartz-pyrite) veinlets. Main fault			101.8	103.4	96	20	110.5	111.5	0.01	1	14	8	14	28	0.42
		represented by 25cm of quartz-pyrite cemented			103.4	104.4	103	0	111.5	112.5	0.03	1	20	7	13	28	0.23
		cataclasite 30 CA at 127.8m (15% py>aspy), with			104.4	105.1	73	17	112.5	113.5	<0.01	1	8	6	12	29	0.38
		crumbly zone to 129.6m of intense pyrite and quartz			105.1	106.6	95	7	113.5	114.5	<0.01	1	4	8	24	30	0.13
		net-veinlets with some ankerite-pyrite veinlets.			106.6	108.0	97	0	114.5	115.5	<0.01	1	12	5	18	26	0.11

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
		Overall: 3-4% pyrite, minor aspy.			108.0	108.9	100	36	115.5	116.5	<0.01	1	17	8	144	52	0.14
					108.9	109.6	90	0	116.5	117.5	0.13	1	72	14	20	61	0.7
131.8	159.1	Grey to dark grey, fine grained carbonaceous	OUT	sll	109.6	110.5	83	13	117.5	118.5	0.20	1	417	9	7	36	0.6
		quartzose sandstone with ankerite veining. Same			110.5	112.1	92	26	118.5	119.5	0.31	1	388	11	9	22	0.42
		rock as above 124m except mildly calcareous (weak			112.1	113.4	104	0	119.5	120.5	<0.01	1	18	8	15	27	0.15
		leaching) including bands of impure limestone.			113.4	115.0	99	14	120.5	121.5	0.01	1	12	7	8	21	0.9
		Bedding 20 CA (generally massive). Occasional			115.0	116.5	87	0	121.5	122.5	0.02	1	24	7	13	18	0.24
		graphitic partings. Ankerite veinlets usually <5mm,			116.5	118.0	98	7	122.5	123.5	<0.01	1	14	7	10	20	0.15
		high angle to CA and with minor quartz, pyrite and			118.0	119.3	104	9	123.5	124.6	0.04	1	24	9	15	26	0.16
		arsenopyrite. Veining most common 138-141.7m			119.3	120.1	93	0	124.6	125.3	0.50	<1	448	4	21	43	0.98
		(10% veinlets 50 CA, 2% py-aspy). Largest ankerite			120.1	121.6	95	9	125.3	126.3	0.98	<1	2223	4	19	35	2.63
		vein 70mm 35 CA at 149.7m. Common vuggy quartz			121.6	123.1	102	28	126.3	127.3	0.09	<1	213	4	17	33	0.7
		veinlets (some +pyrite), abundant 153.2-157.5m.			123.1	124.0	66	0	127.3	127.9	0.19	<1	1095	12	115	111	5.87
		Pyrite on fractures (less than before), best 149.6-			124.0	125.3	88	0	127.9	128.9	0.45	<1	959	6	47	47	1.25
		151.6m (2% py-aspy). Overall, 1% py>aspy with			125.3	126.8	100	7	128.9	129.6	0.89	<1	1979	10	136	133	4.11
		aspy:py ratio higher than elsewhere in hole.			126.8	128.2	98	0	129.6	130.7	0.16	<1	460	9	21	39	1.18
					128.2	129.1	107	19	130.7	131.8	0.04	<1	85	15	20	32	0.39
		Ground conditions: fair. Rock is harder than before.			129.1	130.3	96	0	131.8	132.8	0.01	<1	40	4	5	27	0.27
		Fractured and broken at intervals. Badly broken			130.3	131.1	96	0	132.8	133.8	0.03	<1	17	7	11	40	0.36
		below 157.5m by small high-angle faults.			131.1	132.1	96	15	133.8	134.8	0.81	<1	278	6	<3	27	0.52
					132.1	133.6	101	0	134.8	135.8	0.47	2	567	9	5	58	0.51
159.1	197.5	Dark grey-black, massive, fine grained, calcareous,	OUT	sll	133.6	134.7	91	9	135.8	136.8	0.71	1	832	7	<3	36	0.64
		carbonaceous quartzose sandstone. As above,			134.7	135.7	115	26	136.8	137.8	0.44	1	226	7	<3	34	0.53
		but ankerite veining is generally minor (best: 173.5-			135.7	137.1	94	7	137.8	138.8	1.24	2	1386	7	12	972	1.43
		174.6m). There are local zones of abundant ankerite-			137.1	138.1	97	4	138.8	139.8	2.33	1	2639	6	7	27	1.45
		quartz microveinlets (<1mm). Below pyritic fault at			138.1	139.6	107	47	139.8	140.8	2.58	1	4108	8	35	59	2.67
		182.9-183.6m (30 CA) slight lithological change to			139.6	141.1	92	39	140.8	141.7	1.29	1	1186	9	143	1950	1.11
		paler less-carbonaceous more-calcareous sandstone			141.1	141.7	97	40	141.7	142.7	0.66	1	821	5	42	44	0.71
		with beds of pale grey limestone to 30cm. These			141.7	143.2	103	68	142.7	143.7	1.05	1	1079	6	<3	20	0.92
		rocks contain abundant irregular veinlets of calcite,			143.2	144.1	79	33	143.7	144.7	0.70	1	432	6	9	17	0.92
		but almost no ankerite. Rock pyritic as before to			144.1	145.1	106	50	144.7	145.7	0.43	1	651	7	5	17	0.42
		174.6m (averaging 1% and locally 2-3% eg: in zone			145.1	145.8	94	21	145.7	146.7	0.82	1	870	7	23	30	0.72
		of pyrite microveinlets 166-166.5m). Pyrite decreases			145.8	147.1	98	65	146.7	147.7	0.20	1	122	8	16	34	0.36

Hole B44

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
		below 174.6m and is absent below 183.6m.			147.1	148.6	99	38	147.7	148.7	0.04	1	14	7	<3	22	0.4
		Ground conditions generally fair to 183.6m, with			148.6	150.1	95	11	148.7	149.6	0.32	1	54	41	81	68	0.68
		small faults, fracturing and mild breaking. Below			150.1	151.6	101	58	149.6	150.3	0.47	1	219	9	<3	17	0.8
		183.6m conditions good. Rock is hard.			151.6	153.1	91	43	150.3	151.0	0.08	1	54	10	25	17	2.04
					153.1	154.6	105	32	151.0	151.7	0.07	1	13	11	9	48	1.79
197.5	205.4	Fault. Creamy-fawn, partly leached and bleached,			154.6	156.1	101	34	151.7	152.5	0.62	1	174	8	<3	21	0.71
		soft, crumbly and broken sandstone. Below main			156.1	157.6	92	42	152.5	153.2	0.21	1	145	9	<3	19	0.45
		fault zone at 201.8-203.2m, sandstone is markedly			157.6	159.1	99	0	153.2	154.3	<0.01	<1	32	7	11	42	0.78
		more calcareous and with thin beds of limestone.			159.1	160.6	103	29	154.3	155.4	<0.01	<1	34	6	20	46	0.59
		Very little veining (minor calcite, rare ankerite). At			160.6	162.1	92	49	155.4	156.5	<0.01	<1	32	13	9	53	0.36
		200.2-220.9m 3% pyrite as disseminations and			162.1	163.6	107	23	156.5	157.5	0.05	<1	81	9	3	26	0.28
		dendritic veinlets (clearly late-stage). Elsewhere			163.6	165.1	96	9	157.5	158.3	<0.01	<1	54	7	6	31	0.14
		pyrite very minor.			165.1	166.6	99	53	158.3	159.1	0.08	<1	134	5	7	28	0.4
					166.6	167.9	82	12	159.1	160.5	0.04	<1	51	7	<3	26	0.31
205.4	239.6	Pale green, fine to medium grained calcareous			167.9	169.4	99	36	160.5	162.0	<0.01	<1	9	6	3	37	0.39
		sandstone, siltstone and white limestone.			169.4	171.0	94	28	162.0	163.5	0.02	<1	34	6	<3	20	0.51
		Sandstone/siltstone is quartzose, non-carbonaceous			171.0	172.6	84	24	163.5	165.0	0.01	<1	29	5	4	24	0.43
		and contains common shell fragments. Limestone			172.6	174.1	97	17	165.0	166.5	0.02	<1	64	8	8	32	0.66
		occurs in intervals up to 1.8m. There are thin beds			174.1	175.5	108	7	166.5	168.5	0.01	<1	3	6	7	34	0.22
		of sericitic shale. Bedding 20-30 CA. Downhole-			175.5	177.0	107	28	168.5	169.5	<0.01	<1	17	7	6	36	0.24
		facing grading at 208m. Very common calcite			177.0	178.6	88	13	169.5	171.0	0.04	<1	15	4	<3	36	0.14
		veinlets, becoming abundant and with minor quartz			178.6	180.1	115	34	171.0	172.5	<0.01	<1	12	4	9	35	0.14
		and ankerite, in strong fault below 237.8m. Rare py.			180.1	181.6	105	33	172.5	173.5	<0.01	<1	15	5	12	37	0.12
					181.6	183.1	104	38	173.5	174.6	0.05	<1	57	5	4	21	0.54
		Ground conditions generally good. Bedding-parallel			183.1	184.6	93	27	174.6	176.0	<0.01	<1	7	5	7	74	0.13
		small faults below 225m, approaching badly broken			184.6	186.1	94	46	176.0	177.5	<0.01	<1	17	4	5	78	0.1
		puggy sericite-chlorite altered fault 10 CA starting at			186.1	187.4	108	11	177.5	179.0	<0.01	<1	20	5	11	39	0.07
		237.8m.			187.4	188.9	99	51	179.0	180.5	<0.01	<1	15	7	<3	37	0.12
					188.9	190.4	102	34	180.5	182.0	<0.01	<1	19	5	<3	38	0.26
		E.O.H. at 239.6m			190.4	191.9	100	73	182.0	183.5	<0.01	<1	41	6	4	40	0.35
					191.9	193.4	106	49	183.5	185.0	<0.01	<1	27	4	<3	33	0.06
					193.4	195.0	26	46	185.0	186.5	<0.01	<1	56	9	<3	34	0.07
					195.0	196.0	114	11									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
					196.0	197.5	101	15	200.2	200.9	0.01	<1	55	6	<3	34	2.26
					197.5	199.0	95	0									
					199.0	200.5	93	0	237.8	239.6	<0.01	<1	1	5	3	25	<0.01
					200.5	202.0	85	0									
					202.0	203.0	96	0									
					203.0	204.1	91	0									
					204.1	205.3	105	0									
					205.3	206.8	107	50									
					206.8	208.3	113	39									
					208.3	209.9	95	57									
					209.9	211.4	108	15									
					211.4	213.0	100	27									
					213.0	214.3	98	64									
					214.3	217.3	101	66									
					217.3	218.8	95	64									
					218.8	220.3	98	69									
					220.3	221.8	101	43									
					221.8	223.3	105	26									
					223.3	224.8	100	42									
					224.8	226.0	88	47									
					226.0	227.5	91	45									
					227.5	229.0	100	70									
					229.0	230.5	100	60									
					230.5	232.0	93	69									
					232.0	233.5	95	37									
					233.5	235.0	93	16									
					235.0	236.5	99	43									
					236.5	238.0	100	46									
					238.0	239.6	89	0									

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B44A

Date Started	:	30 October 1997	**Drilled by**	:	Diamond Drilling (Tas.)
Date Completed	:	11 November 1997	**Logged by**	:	J.G. Purvis

Collar

Northing	:	5440740.86
Easting	:	482887.20
R.L.	:	20585.23
Dip	:	-59.8
Bearing	:	349.65

Hole Details

Final Depth	:	164.0	
Hole Length	:	91.1	
Core Size	:	72.9	164.0 NQ

Purpose

Wedged out of B44 for further delineation of anomalous gold mineralisation at Pease Creek.

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B44A**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								2058.26					5440740.86			482887.20
0	-59.8	349.65	0	17.5	17.5	-0.86	-15.12	2043.13	0.50	8.80	0.98	8.66	5440749.52	-0.18	-1.58	482885.62
35	-60.5	351.5	17.5	50	32.5	-0.87	-28.29	2014.84	0.49	16.00	0.99	15.83	5440765.35	-0.15	-2.37	482883.26
65	-61.5	351	50	69.45	19.45	-0.88	-17.09	1997.75	0.48	9.28	0.99	9.17	5440774.51	-0.16	-1.45	482881.81
73.9	-61.5	351	69.45	78.45	9	-0.88	-7.91	1989.84	0.48	4.29	0.99	4.24	5440778.76	-0.16	-0.67	482881.13
83	-60.5	351	78.45	98	19.55	-0.87	-17.02	1972.83	0.49	9.63	0.99	9.51	5440788.26	-0.16	-1.51	482879.63
113	-61.0	352	98	129.5	31.5	-0.87	-27.55	1945.28	0.48	15.27	0.99	15.12	5440803.39	-0.14	-2.13	482877.50
146	-60.5	352	129.5	155	25.5	-0.87	-22.19	1923.08	0.49	12.56	0.99	12.43	5440815.82	-0.14	-1.75	482875.75
164	-60.0	351	155	164	9	-0.87	-7.79	1915.29	0.50	4.50	0.99	4.44	5440820.27	-0.16	-0.70	482875.05

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole B44A

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
72.9	125.0	Dark grey-black fine PYRITIC CARBONACEOUS	OUT	sll	72.9	74.4	105	23	123.5	125.0	0.93	<1	1	16	11	18	1.21
		QUARTZOSE SANDSTONE. Originally calcareous,			74.4	75.9	104	0	125.0	126.5	0.28	<1	13	6	10	16	0.89
		now leached and porous. Scattered clayey bands			75.9	77.2	96	15	126.5	127.8	0.43	<1	135	7	28	29	2.19
		after LIMESTONE between 87-108m. Sandstone is			77.2	78.2	104	0	127.8	129.5	0.19	<1	20	7	10	46	0.73
		generally massive. Bedding best expressed in and			78.2	79.7	97	0	129.5	131.0	0.30	<1	730	7	11	48	0.86
		around the limestones (10-30 CA). Occasional vuggy			79.7	81.0	103	0	131.0	132.5	0.29	<1	124	6	6	46	0.66
		quartz veinlets. Common small open gashes after			81.0	82	95	0	132.5	134.0	0.21	<1	425	5	<3	28	0.29
		carbonate veinlets. Fault 92.5-92.8m, 75 CA.			82.0	83.3	102	0	134.0	135.5	0.36	<1	37	6	<3	62	0.39
		Pyrite (minor to 3%) on fractures, as tiny veinlets and			83.3	84.6	94	0	135.5	137.0	3.50	<1	2874	9	13	35	1.19
		disseminated - rock smells of sulphides. At 99-100m			84.6	86.0	37	0	137.0	138.5	0.48	<1	612	22	49	313	0.85
		(only 20cm of core), crumbly leached quartz-pyrite			86.0	86.9	96	0	138.5	140.0	0.22	<1	127	8	121	145	0.44
		fault breccia. Pyrite increases gradually below this			86.9	88.4	63	11	140.0	141.5	1.49	<1	833	7	220	176	1.82
		fault, with abundant pyrite veinlets in basal 0.5m.			88.4	89.5	109	0	141.5	143.0	0.16	<1	58	6	48	31	0.63
					89.5	90.8	103	21	143.0	144.5	0.14	<1	121	5	94	23	0.94
		Ground conditions poor. Rock is well fractured and			90.8	91.8	67	0	144.5	146.0	0.06	<1	53	7	693	48	3.56
		broken, with some crumbly rubble zones. Conditions			91.8	93.0	77	18	146.0	147.5	0.02	<1	51	7	4	29	1.48
		worst 84-114m.			93.0	93.8	101	14	147.5	149.0	0.01	<1	22	6	<3	32	0.18
					93.8	94.9	105	12	149.0	150.5	0.13	<1	358	9	172	88	1.83
125.0	141.4	ZONE OF STRONG ANKERITE-QUARTZ (-PYRITE)	DRF	min	94.9	96.0	92	14	150.5	152.0	0.17	<1	115	6	6	22	0.58
		VEINING, in CARBONACEOUS QUARTZOSE			96.0	97.3	94	17	152.0	153.3	0.06	<1	4	5	7	28	0.56
		SANDSTONE. Thin mildly calcareous bands with			97.3	98.5	82	18	153.3	154.8	0.01	<1	21	7	12	23	0.37
		carbonaceous clay seams (decomposed limestone?)			98.5	99.7	7	0	154.8	156.2	0.16	<1	29	6	4	27	0.42
		Bedding 5-40 CA. Ankerite-quartz veins to 7cm,			99.7	100.5	61	0	156.2	157.7	0.02	<1	47	6	3	16	0.35
		generally <1cm, with intervals of intense net-veining			100.5	101.4	84	11									
		50cm (128.4-128.9m). Veining at all angles often			101.4	101.9	80	0									
		irregular and chopped up by later fracturing. Some			101.9	102.9	77	0									
		veins contain pyrite but pyrite is more common on			102.9	104.4	93	23									
		fractures and as disseminations.Overall: pyrite 1-2%.			104.4	104.9	108	20									
		Best of the veining and sulphides is above 133m and			104.9	106.0	106	0									
		140-141.1m. Arsenopyrite first seen in ankerite vein			106.0	107.4	86	0									
		at 135.5 and is common 135.5-136m in veins and			107.4	108.0	90	0									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
		disseminations, but rare below this. Top part of zone			108.0	109.5	98	0									
		(to 127.8m) is marked by crumbly leached interval			109.5	111.0	81	33									
		with intense but patchy spidery quartz-pyrite net-			111.0	111.6	98	0									
		veining in partly-brecciated sandstone. This upper			111.6	112.8	98	11									
		interval is centred 127-127.8m where pyrite reaches			112.8	113.5	114	0									
		5%. It equates with the interval 124.6-131.8m in B44			113.5	114.5	86	10									
		but unlike that hole here contains no arsenopyrite			114.5	115.1	87	0									
		and no ankerite.			115.1	116.6	97	49									
					116.6	118.0	95	14									
		Ground conditions fair to poor. Much less leached			118.0	119.5	95	14									
		and fractured than unit above but still broken in			119.5	121.0	92	28									
		places, especially along the crumbly limestone beds.			121.0	122.5	88	37									
					122.5	123.8	98	0									
141.4	153.3	Massive black, fine to medium grained PYRITIC	OUT	sll	123.8	124.3	124	22									
		CARBONACEOUS QUARTZOSE SANDSTONE. No			124.3	125.3	91	15									
		visible bedding. Rock is partly leached with small			125.3	126.0	101	0									
		open gashes after carbonate veinlets. Minor tiny			126.0	127.5	74	21									
		vuggy quartz veinlets. Weak ankerite veinlets 148-			127.5	128.3	97	45									
		150m. Conspicuous pyrite on fractures, also in tiny			128.3	129.8	90	24									
		veinlets and disseminations. Best pyrite is from 142-			129.8	131.3	96	35									
		147.5m (3-5%), associated with strong pyrite-filled			131.3	132.8	97	35									
		fault which runs down CA from 142.5-146.5m. 5%			132.8	134.3	94	71									
		pyrite as veinlets 149.8-150.3m in crumbly zone also			134.3	135.8	100	17									
		containing leached quartz veinlets.			135.8	137.3	104	7									
					137.3	138.3	108	19									
		Ground conditions fair to poor. Fractured and broken,			138.3	139.5	79	0									
		with rubble zones associated with fault at 143-146m.			139.5	140.8	82	37									
					140.8	142.3	96	29									
153.3	156.2	ZONE OF WEAK QUARTZ-ANKERITE VEINING IN	DRF	min	142.3	143.8	88	23									
		SANDSTONE. Rock as above, with intervals of very			143.8	145.3	107	14									
		fine (average <2mm) quartz-ankerite veinlets filling			145.3	146.6	96	13									
		zones of fracturing and incipient brecciation. Some			146.6	148.1	101	48									
		veining diffuse and irregular (ie: patchy silicification).			148.1	149.6	97	47									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
		Veining decreases markedly below 155.75m. 1-2%			149.6	151.1	82	27									
		pyrite as tiny veinlets, on fractures and disseminated			151.1	151.8	101	14									
		but very little in the quartz-ankerite veinlets. Arseno-			151.8	153.0	90	10									
		pyrite only noted in brecciated quartz-ankerite vein at			153.0	154.1	104	36									
		155.1m.			154.1	155.6	96	47									
					155.6	156.8	97	25									
		Ground conditions fair to good. Rock is harder and			156.8	158.3	107	7									
		less leached than before.			158.3	159.8	95	7									
					159.8	161.3	91	16									
156.2	164.0	Dark grey-black, medium grained CARBONACEOUS	OUT	sll	161.3	162.5	63	18									
		QUARTZOSE SANDSTONE. Weakly calcareous			162.5	164.0	99	47									
		with possible thin clayey carbonaceous limestone															
		bed 20 CA at 160.6m. Trace graphite on some															
		partings. Minor thin (rarely +1mm) quartz and															
		carbonate veinlets - a few are ankeritic. 1% pyrite on															
		fractures, in veinlets and disseminations.															
		Ground conditions fair to poor. Rock is generally well															
		fractured and broken, with minor leaching.															
		EOH at 164.0m.															

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B46

Date Started	:	12 November 1997	**Drilled by**	:	Diamond Drilling (Tas.)
Date Completed	:	28 November 1997	**Logged by**	:	J.G. Purvis

Collar			**Hole Details**		
Northing	:	5440740.12	**Final Depth**	:	179.4
Easting	:	482887.62	**Hole Length**	:	179.4
R.L.	:	2058.43	**Core Size**	:	NQ
Dip	:	-60			
Bearing	:	330.5			

Purpose

Further investigation of mineralisation at the Pease Creek Prospect

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S
150.3	154.3	4.0	Pyritic ankerite rich mineralisation	0.82	0.60	5	6	105	2656	2.71
Including										
153.5	154.3	0.8		1.43	1.00	5	<3	65	4274	1.47

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B46**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								2058.43					5440740.12			482887.62
0	-60.0	330.5	0	16.5	16.5	-0.87	-14.29	2044.14	0.50	8.25	0.87	7.18	5440747.30	-0.49	-4.06	482883.56
33	-60.0	330	16.5	49.5	33	-0.87	-28.58	2015.56	0.50	16.50	0.87	14.29	5440761.59	-0.50	-8.25	482875.31
66	-61.0	330.5	49.5	81	31.5	-0.87	-27.55	1988.01	0.48	15.27	0.87	13.29	5440774.88	-0.49	-7.52	482867.79
96	-61.5	331	81	111	30	-0.88	-26.36	1961.64	0.48	14.31	0.87	12.52	5440787.40	-0.48	-6.94	482860.85
126	-61.0	330	111	138	27	-0.87	-23.61	1938.03	0.48	13.09	0.87	11.34	5440798.73	-0.50	-6.54	482854.30
150	-62.5	329	138	164.5	26.5	-0.89	-23.51	1914.52	0.46	12.24	0.86	10.49	5440809.22	-0.52	-6.30	482848.00
179	-63.0	328	164.5	179.4	14.9	-0.89	-13.28	1901.25	0.45	6.76	0.85	5.74	5440814.96	-0.53	-3.58	482844.42

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole **B46**

From	To	Description	Unit	Code	From	To	Rec	RQD	Assays								
							(%)	(%)	From	To	Au	Ag	As	Cu	Pb	Zn	S
0.0	24.7	Triconed - no core. TERTIARY CLAYS, SILTS and	TER		24.0	25.6	56	0	37.0	38.0	<0.01	<1	22	21	<3	21	2.99
		GRAVELS.			25.6	27.1	35	0	38.0	39.0	0.02	<1	66	54	<3	29	2.3
					27.1	28.6	51	0	39.0	40.0	<0.01	<1	42	30	<3	23	2.37
24.7	37.0	Creamy brown. STRONGLY OXIDIZED QUARTZOSE	OUT		28.6	30.1	61	0	40.0	41.0	<0.01	<1	25	88	6	31	2.51
		SILTSTONE and SANDSTONE. Leached, bleached,			30.1	31.1	71	10	41.0	42.0	<0.01	<1	82	106	13	46	5.27
		porous and badly broken, with clayey sections.			31.1	32.1	89	0									
		MnOx stains, especially on fractures. Limonite stains			32.1	33.1	76	0	58.0	59.0	0.06	<1	24	5	4	110	0.13
		below 34.5m. Rare leached quartz veinlets.			33.1	34.5	21	0	59.0	60.0	0.24	<1	117	4	14	141	0.22
					34.5	35.0	62	0									
37.0	90.7	Dark grey-black, fine to medium grained, PYRITIC	OUT		35.0	36.0	80	0	69.0	70.0	0.02	<1	28	3	19	45	0.24
		CARBONACEOUS QUARTZOSE SILTSTONE and			36.0	36.8	81	0									
		SANDSTONE. Leached and porous (rocks originally			36.8	37.8	74	11									
		calcareous). Clayey bands to 1m after thinly-bedded			37.8	39.1	87	11									
		IMPURE LIMESTONE. Bedding 25 CA.			39.1	40.1	85	10									
		Strong pyrite veining 37-42m (3-5% pyrite). Pyrite 1%			40.1	40.9	61	0									
		42-47m and below 84.5m. Elsewhere, generally			40.9	42.1	73	0									
		pyrite <1%, mainly on fractures and in tiny veinlets.			42.1	43.0	78	11									
		Pyritic fault 71.2-72.3m (0.9m of core lost here).			43.0	44.5	85	21									
		Minor high-angle leached quartz veinlets, rarely			44.5	46.0	82	29									
		pyritic, and most common 57.5-60.5m and 69-70.5m.			46.0	47.0	58	0									
					47.0	48.1	104	22									
		Ground conditions fair. Extensive fracturing, with			48.1	49.6	93	23									
		badly broken intervals (especially limestones).			49.6	50.1	120	30									
					50.1	51.1	80	18									
90.7	91.8	MINERALIZED FAULT, 55 CA. Breccia of quartzose	OUT		51.1	52.3	99	0	90.7	91.8	<0.01	<1	36	5	12	53	1.94
		sandstone cemented by fine sugary quartz, all cut by			52.3	53.8	105	0									
		tiny spidery pyrite veinlets. 2-3% pyrite. Moderately			53.8	55.0	87	18									
		leached and broken.			55.0	56.5	94	13									
					56.5	58.0	30	0									
91.8	110.4	Black, medium grained, PYRITIC CARBONACEOUS	OUT		58.0	59.3	65	37									
		QUARTZOSE SANDSTONE. Rock is porous and has			59.3	60.8	100	51									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays								
									From	To	Au	Ag	As	Cu	Pb	Zn	S
		open gashes on fractures due to carbonate leaching.			60.8	62.3	64	8									
		Bedding poorly developed 20-30 CA (rock is massive)			62.3	63.2	100	0									
		Strong low-angle faults at 97-102m and 105-106.5m.			63.2	64.2	86	0									
		Minor leached quartz veinlets (some contain pyrite).			64.2	64.8	83	0									
		Pyrite 1-3%, in fractures, veinlets and disseminated.			64.8	66.1	56	0									
		Best pyrite in faulted section at 98-109m.			66.1	67.4	92	0									
					67.4	68.9	107	19									
		Ground conditions fair to poor. Extensive rubble			68.9	70.4	98	23									
		intervals below 97m.			70.4	71.9	49	0									
					71.9	72.7	74	0									
110.4	130.1	MAJOR FAULT. Pale fawn, badly broken and clayey	OUT		72.7	73.9	86	25	115.5	116.5	<0.01	1	61	5	8	55	1.68
		zone in quartzose siltstone and sandstone. Highly			73.9	74.9	97	13	116.5	117.5	<0.01	<1	67	6	<3	48	0.94
		leached and bleached. Clayey limestone in top few			74.9	75.8	91	0									
		metres (Brachiopod fragments at 115.5m). No quartz			75.8	76.7	147	27									
		or carbonate veining. Generally trace pyrite and rare			76.7	78.1	72	18									
		arsenopyrite, mostly on fractures. Best zones: 2%			78.1	79.2	58	0									
		pyrite>>arsenopyrite at 115.5-117.5m, and 2-3%			79.2	79.9	143	0									
		disseminated pyrite>>arsenopyrite below 129m.			79.9	81.1	74	8									
					81.1	82.5	41	0	129.0	130.1	<0.01	1	114	5	35	139	4.86
		Ground conditions very poor - largely rubble.			82.5	83.3	75	0	130.1	132.5	0.02	<1	20	14	16	59	1.46
		Significant core loss. Rock is lightweight and friable.			83.3	83.8	290	0	132.5	133.5	<0.01	<1	37	9	8	43	1.29
					83.8	85.3	88	0	133.5	134.5	<0.01	<1	39	18	11	54	0.84
130.1	140.6	PYRITIZED SANDSTONE. Pale grey, massive	DRF		85.3	86.8	95	9	134.5	135.5	0.01	1	69	12	36	140	5.09
		quartzose sandstone, with 2-3% fine sooty pyrite>			86.8	88.3	56	0	135.5	136.5	<0.01	1	27	89	50	162	1.98
		arsenopyrite, in veinlets, fracture-fillings and			88.3	89.2	81	0	136.5	137.5	<0.01	1	56	5	7	117	4.13
		disseminations. Some sulphide veinlets have quartz			89.2	90.1	158	33	137.5	138.5	<0.01	<1	67	5	11	74	2.38
		gangue. Mineralization best 134.5-135.5m with 3-5%			90.1	91.5	164	16	138.5	139.5	<0.01	1	1006	4	<3	47	0.83
		pyrite>arsenopyrite in a network of veinlets. Small			91.5	92.6	85	0	139.5	140.6	0.06	<1	147	5	14	105	4.73
		diffuse patch of ankeritic carbonate alteration at			92.6	94.1	100	0	140.6	141.1	0.02	1	33	5	6	78	5.09
		132.8m and rotten quartz-ankerite veinlet at 134.4m.			94.1	95.6	97	15	141.1	142.3	<0.01	1	46	21	5	52	1.00
		Bedding poorly developed, 30 CA.			95.6	97.1	98	7	142.3	143.1	<0.01	1	25	16	<3	65	0.18
					97.1	98.3	66	0	143.1	144.0	0.11	1	82	7	<3	432	0.31
		Ground conditions generally poor. Well fractured and			98.3	99.1	95	0	144.0	145.0	0.03	<1	106	6	5	93	4.61

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
		broken, with crumbly zones.			99.1	100.3	76	10	145.0	145.7	0.01	<1	16	5	48	105	2.82
					100.3	101.8	71	0	145.7	146.3	0.01	1	9	4	<3	61	3.38
140.6	160.6	ANKERITE-SULPHIDE-QUARTZ MINERALIZATION	DRF		101.8	102.8	88	25	146.3	147.6	0.01	1	46	4	<3	52	4.78
		in pale grey, partly leached and sericitized quartzose			102.8	104.3	99	11	147.6	148.8	0.04	<1	103	5	4	46	1.69
		siltstone-sandstone. Limestone breccia beds. Quartz			104.3	105.1	105	40	148.8	150.3	0.01	1	94	4	<3	36	1.00
		pebble in limestone at 156.1m. Bedding 20-30 CA.			105.1	106.1	83	0	150.3	151.1	0.92	<1	2854	7	21	330	7.05
		To 144m the ankerite largely as a patchy diffuse			106.1	107.6	96	0	151.1	152.6	0.74	1	2632	6	9	74	2.59
		alteration, some associated with disseminated pyrite			107.6	108.9	88	0	152.6	153.5	1.00	1	3522	6	<3	58	2.44
		>arsenopyrite (averaging 2%).			108.9	110.4	81	10	153.5	154.3	1.43	1	4274	5	<3	65	1.47
		144-145m: Massive stratiform replacement lode (30			110.4	111.9	49	11	154.3	155.2	0.10	1	69	3	<3	32	0.47
		CA) of granular ankerite-quartz-pyrite>arsenopyrite			111.9	113.4	40	0	155.2	156.1	0.45	1	2347	4	<3	46	0.95
		(5-7% sulphides).			113.4	114.4	72	0	156.1	157.2	0.90	1	3753	4	<3	38	1.02
		145-147.4m: 3% pyrite>arsenopyrite disseminated in			114.4	117.1	84	0	157.2	158.0	0.04	1	100	6	<3	39	0.26
		interval of weak diffuse ankerite-quartz replacement			117.1	117.7	72	0	158.0	159.5	0.06	1	94	5	3	26	0.19
		bands.			117.7	119.0	109	0	159.5	160.6	0.05	1	<50	3	3	20	0.11
		147.4-150.3m: Very common discrete ankerite-quartz			119.0	120.1	36	0									
		sulphide veinlets in weakly silicified and sericitized			120.1	121.1	90	0									
		sandstone. 1-2% pyrite-arsenopyrite.			121.1	122.6	39	0									
		150.3-151.1m: Granular ankerite-quartz-sulphide lode			122.6	124.1	57	0									
		with 5-7% pyrite>arsenopyrite.			124.1	125.6	47	0									
		151.1-160.6m: Ankerite (+quartz and sulphides) in			125.6	126.1	30	0									
		veinlets, patches and replacement bands - the latter			126.1	126.8	34	0									
		mainly replacing calcite cement in limestone breccia			126.8	127.5	69	0									
		beds to 1m (157-158m). 2% pyrite>arsenopyrite to			127.5	128.6	33	0									
		154m, decreasing to minor below 157.1m.			128.6	129.0	95	0									
					129.0	130.5	53	0									
		Ground conditions generally poor: fractured and			130.5	132.0	44	0									
		broken with rubble zones and core loss. Several			132.0	132.7	73	0									
		bedding-parallel faults 150-160m, centred on 20cm			132.7	134.2	93	0									
		cataclasite breccia zone at 153.8m.			134.2	135.7	92	7									
					135.7	136.8	96	0									
160.6	179.4	Pale grey, leached, fine to medium grained, massive	OUT		136.8	138.1	99	20									
		QUARTZOSE SANDSTONE. Weakly sericitized.			138.1	139.5	60	17									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
		Tiny carbonate veinlets, between 164-165m some of			139.5	141.1	51	0									
		these appear ankeritic and have minor hematite			141.1	142.3	67	8									
		associated with them. Trace pyrite.			142.3	143.1	68	0									
					143.1	144.4	42	0									
		Ground conditions fair to poor. Extensive zones of			144.4	145.0	98	28									
		bad fracturing, with sandy clay seams - these worst			145.0	146.3	81	29									
		in probable fault zones at 160.8-161.6m and 165-			146.3	147.1	63	21									
		168.3m. Rock is slightly crumbly due to leaching.			147.1	147.6	92	30									
					147.6	148.8	91	10									
					148.8	149.4	88	17									
		EOH at 179.4m.			149.4	150.1	84	19									
					150.1	150.8	73	19									
					150.8	151.5	31	0									
					151.5	152.0	40	0									
					152.0	152.6	33	0									
					152.6	153.1	74	38									
					153.1	153.5	67	0									
					153.5	154.6	101	12									
					154.6	155.2	78	0									
					155.2	156.1	92	24									
					156.1	157.2	72	21									
					157.2	157.8	98	0									
					157.8	158.6	100	40									
					158.6	159.5	91	11									
					159.5	160.8	92	21									
					160.8	161.6	9	0									
					161.6	162.3	74	0									
					162.3	163.3	96	0									
					163.3	164.3	91	10									
					164.3	165.1	100	0									
					165.1	166.0	100	0									
					166.0	167.1	56	0									
					167.1	167.9	67	30									

Hole **B46**

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
					167.9	168.4	76	0									
					168.4	169.2	120	0									
					169.2	169.8	35	0									
					169.8	170.5	46	0									
					170.5	171.5	88	23									
					171.5	172.6	97	44									
					172.6	173.5	97	12									
					173.5	174.1	0	0									
					174.1	175.3	93	53									
					175.3	176.0	47	0									
					176.0	177.0	76	57									
					177.0	178.2	92	22									
					178.2	179.4	61	29									

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B46A

Date Started	:	28 November 1997	**Drilled by**	:	Diamond Drilling (Tas.)
Date Completed	:		**Logged by**	:	J.G. Purvis

Collar

Northing	:	5440740.12
Easting	:	482887.62
R.L.	:	2058.43
Dip	:	-60
Bearing	:	330.5

Hole Details

Final Depth	:	179.4
Hole Length	:	179.4
Core Size	:	NQ

Purpose

Duplication of B46 zone of ankerite rich mineralisation

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : BRD28

Date Started	:	12 September 1997	**Drilled by**	:	Diamond Drilling (Tas.)
Date Completed	:	30 September 1997	**Logged by**	:	J.G. Purvis

Collar			**Hole Details**		
Northing	:	5440755.99	**Final Depth**	:	163.0
Easting	:	482751.87	**Hole Length**	:	109.0
R.L.	:	2064.20	**Core Size**	:	54.0 90.1 HQ
Dip	:	-58.3			90.1 163.0 NQ
Bearing	:	344.5			

Purpose

Extension of BRC28 for further investigation at Pease Creek

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

None of Significance

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **BRD28**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								2064.20					5440755.99			482751.87
0	-58.3	344.5	0	30	30	-0.85	-25.52	2038.68	0.53	15.76	0.96	15.19	5440771.18	-0.27	-4.21	482747.66
60	-59.5	342	30	75	45	-0.86	-38.77	1999.90	0.51	22.84	0.95	21.72	5440792.91	-0.31	-7.06	482740.60
90	-60.0	341	75	105	30	-0.87	-25.98	1973.92	0.50	15.00	0.95	14.18	5440807.09	-0.33	-4.88	482735.72
120	-60.0	341.5	105	135	30	-0.87	-25.98	1947.94	0.50	15.00	0.95	14.22	5440821.31	-0.32	-4.76	482730.96
150	-59.0	342	135	163	28	-0.86	-24.00	1923.94	0.52	14.42	0.95	13.72	5440835.03	-0.31	-4.46	482726.50

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole **RD28**

From	To	Description	Unit	Code	From	To	Rec	RQD	Assays								
							(%)	(%)	From	To	Au	Ag	As	Cu	Pb	Zn	S
54.0	80.7	Highly oxidized fine to coarse grained siliceous	OLT	ssc	54.0	55.4	84	0	54.0	55.5	0.01	<1	11	14	15	19	0.01
		sandstone, grit and microconglomerate. Pale			55.4	56.5	87	0	55.5	57.0	0.01	<1	8	2	6	9	<0.01
		yellow-grey, leached, bleached and porous, with soft			56.5	58.0	85	16	57.0	58.5	<0.01	<1	15	4	4	15	0.03
		sandy intervals (these predominate above 68.5m and			58.0	59.3	55	8	58.5	60.0	<0.01	<1	7	4	8	17	0.07
		are probably due to destruction of carbonate matrix).			59.3	60.1	31	0	60.0	61.5	<0.01	<1	1	7	4	10	<0.01
		Rocks are composed of packed angular to rounded			60.1	61.6	87	0	61.5	63.0	<0.01	<1	11	<2	3	8	<0.01
		grains through to clasts (to 3cm maximum in			61.6	62.9	88	12	63.0	64.5	<0.01	<1	<1	<2	3	4	0.13
		conglomerate), of quartz and lesser quartzite. Minor			62.9	64.2	90	0	64.5	66.0	<0.01	<1	15	<2	<3	5	0.02
		chromite grains with fuchsite rims occur in all rocks.			64.2	65.7	91	0	66.0	67.5	<0.01	<1	4	<2	<3	15	0.02
		Bedding 60 CA. Intervals of locally-abundant clay or			65.7	67.3	91	8	67.5	69.0	<0.01	<1	7	2	3	14	<0.01
		carbonate (+-quartz) net-microveinlets (<1mm, but			67.3	68.4	85	10	69.0	70.5	<0.01	<1	10	<2	4	20	0.19
		uncommonly to 4mm, especially below 71.5m).			68.4	69.8	88	0	70.5	72.0	<0.01	<1	13	<2	3	31	0.53
		Weak limonite stains on fractures throughout but			69.8	71.3	77	7	72.0	73.5	<0.01	<1	2	<2	4	13	0.02
		most notable 55-62m where minor boxworks also.			71.3	72.9	84	6	73.5	75.0	<0.01	<1	1	<2	6	10	0.37
					72.9	74.2	97	8	75.0	76.5	<0.01	<1	<1	<2	4	3	0.05
		Ground conditions very poor - extensive loose sandy			74.2	75.5	88	0	76.5	78.0	<0.01	<1	1	<2	3	6	0.03
		or broken sections.			75.5	77.0	83	22	78.0	79.5	0.09	<1	4	<2	3	6	<0.01
					77.0	78.0	91	0	79.5	81.0	0.04	<1	3	24	62	121	0.06
80.7	163.3	Silicified quartz microconglomerate, grit, and	OLT	ssc	78.0	79.5	87	22	81.0	82.5	<0.01	<1	<1	2	6	4	<0.01
		medium to coarse grained sandstone.			79.5	81.1	88	0	82.5	84.0	<0.01	<1	5	<2	5	18	0.04
		Same rock types as above except largely unoxidized			81.1	82.3	73	0	84.0	85.5	<0.01	<1	11	<2	<3	8	0.06
		and conglomerate predominant, with quartz pebbles			82.3	83.7	93	20	85.5	87.0	<0.01	<1	<1	<2	4	5	<0.01
		to 3cm (average 1cm), in grey-black carbonaceous			83.7	85.2	97	0	87.0	88.5	<0.01	<1	<1	2	3	5	<0.01
		quartzose matrix containing detrital chromite. Varies			85.2	86.2	78	0	88.5	90.1	<0.01	<1	10	2	4	15	0.24
		from closed framework to open framework. Bedding			86.2	87.7	84	28	90.1	92.0	<0.01	<1	<1	4	<3	19	<0.01
		poorly developed, 20-40 CA, with rock types tending			87.7	88.9	78	44	92.0	94.0	0.05	<1	5	3	<3	33	<0.01
		to merge one into another. Occasional leached			88.9	89.8	116	44	94.0	96.0	0.02	<1	2	3	<3	18	<0.01
		carbonate "spotting" throughout. Common limonite			89.8	90.1	83	0	96.0	98.0	0.04	<1	9	2	<3	24	<0.01
		stains (mostly after sulphides) on fractures, with			90.1	91.3	55	8	98.0	100.0	0.01	<1	5	3	<3	24	<0.01
		some boxworks - rarely in veins to 2cm wide (110m).			91.3	92.7	93	49	100.0	102.0	0.04	<1	6	2	8	132	0.04
		Zone of strong pyrite veining 106.6-107.2m, rare			92.7	94.3	94	14	102.0	104.0	0.02	<1	18	3	19	99	0.06

From	To	Description	Unit	Code	From	To	Rec	RQD	Assays								
							(%)	(%)	From	To	Au	Ag	As	Cu	Pb	Zn	S
		pyrite elsewhere. Common quartz veinlets (many			94.3	95.9	70	29	104.0	106.0	<0.01	<1	11	3	3	22	0.03
		<1mm) to 150m, usually at high angle to CA with			95.9	97.5	87	47	106.0	108.0	<0.01	<1	18	3	3	15	0.56
		vughs after carbonate, and sometimes on limonitc			97.5	98.8	68	0	108.0	110.0	0.02	<1	<1	3	<3	20	0.01
		fractures. Zone of quartz veins to 5cm 136-137m.			98.8	100.3	103	39	110.0	112.0	0.04	<1	19	3	<3	21	<0.01
					100.3	101.0	80	0	112.0	114.0	0.02	<1	1	12	<3	17	<0.01
		Ground conditions poor to 90m then fair. Rock is			101.0	102.1	91	15	114.0	116.0	0.02	<1	<1	5	<3	12	<0.01
		hard but fractured, with occasional small clayey			102.1	103.0	28	0	116.0	118.0	<0.01	<1	6	3	3	37	<0.01
		faults, the strongest at 102-102.3m (low angle to CA)			103.0	104.6	79	51	118.0	120.0	<0.01	<1	<1	3	<3	21	<0.01
					104.6	106.2	97	7	120.0	122.0	0.1	<1	<1	3	3	30	<0.01
					106.2	107.6	109	7	122.0	124.0	<0.01	<1	<1	7	8	14	<0.01
		EOH at 163.3m			107.6	109.1	99	55	124.0	126.0	<0.01	<1	1	6	23	17	<0.01
					109.1	110.7	89	54	126.0	128.0	0.07	<1	5	5	<3	18	0.02
					110.7	112.2	89	29	128.0	130.0	0.03	<1	3	3	<3	19	<0.01
					112.2	113.8	92	28	130.0	132.0	0.04	<1	13	4	3	35	<0.01
					113.8	115.4	89	27	132.0	134.0	0.01	<1	4	4	<3	26	<0.01
					115.4	116.5	92	0	134.0	136.0	0.05	<1	8	3	<3	24	0.01
					116.5	118.1	94	58	136.0	138.0	0.13	<1	<1	3	<3	17	<0.01
					118.1	119.3	92	57	138.0	140.0	0.05	<1	4	3	<3	16	<0.01
					119.3	119.6	67	0	140.0	142.0	0.02	<1	<1	3	<3	13	<0.01
					119.6	121.0	86	36	142.0	144.0	0.02	<1	3	3	<3	24	0.01
					121.0	122.5	94	19	144.0	146.0	0.03	<1	2	3	<3	34	<0.01
					122.5	124.0	99	33	146.0	148.0	0.02	<1	<1	4	<3	28	<0.01
					124.0	125.5	93	33	148.0	150.0	<0.01	<1	3	4	<3	13	<0.01
					125.5	127.0	101	62	150.0	152.0	0.16	<1	9	3	<3	7	<0.01
					127.0	127.6	102	63	152.0	154.0	<0.01	<1	4	4	<3	23	<0.01
					127.6	129.1	98	41	154.0	156.0	<0.01	<1	2	3	5	7	<0.01
					129.1	130.6	103	35	156.0	158.0	<0.01	<1	3	3	<3	13	<0.01
					130.6	131.5	94	11	158.0	160.0	<0.01	<1	3	4	<3	12	<0.01
					131.5	132.5	53	26	160.0	162.0	<0.01	<1	<1	3	<3	12	<0.01
					132.5	133.6	136	87	162.0	163.3	0.01	<1	5	4	<3	22	<0.01
					133.6	134.6	90	22									
					134.6	135.6	103	66									
					135.6	137.1	97	63									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
					137.1	138.3	95	23									
					138.3	139.8	87	48									
					139.8	141.1	97	54									
					141.1	142.1	106	37									
					142.1	143.6	91	45									
					143.6	145.1	87	14									
					145.1	146.5	100	58									
					146.5	147.7	85	42									
					147.7	148.9	106	37									
					148.9	150.1	84	35									
					150.1	151.1	58	0									
					151.1	152.4	95	15									
					152.4	153.9	93	32									
					153.9	155.4	97	39									
					155.4	156.9	97	42									
					156.9	158.2	95	8									
					158.2	159.1	89	49									
					159.1	160.6	89	11									
					160.6	162.1	88	40									
					162.1	162.4	107	73									
					162.4	163.1	109	19									
					163.1	163.3	70	0									

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B48

Date Started : 23 January 1995 ?8

Date Completed : 5 February 1998

Drilled by : Stacpooles

Logged by : Grant MacDonald

Collar

Northing	:	482300.41
Easting	:	5438488.96
R.L.	:	109.09
Dip	:	vertical
Bearing	:	NR

Hole Details

Final Depth	:	99.5m
Hole Length	:	99.5m
Core Size	:	0-24.0m, RC; 24.0m-99.5m HQ

Purpose **Determine rock type beneath mill site**

Summary Results **No significant intersections**

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B48**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								109.09					5438488.96			482300.41
0	-90.0		0	45	45	-1.00	-45.00	64.09	0.00	0.00	1.00	0.00	5438488.96	0.00	0.00	482300.41
90	-90.0		45	99.5	54.5	-1.00	-54.50	9.59	0.00	0.00	1.00	0.00	5438488.96	0.00	0.00	482300.41

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole B48

From	To	Description	Unit	Code	From	To	Rec	RQD	Assays								
							(%)	(%)	From	To	Au	Ag	As	Cu	Pb	Zn	S
0.0	24.0	**Not cored. Tertiary gravels and clays.**	TER		25.0	25.5	78	0									
		There was a repetition of core blocks with 34.9m			25.5	27.0	12	0									
		written with 1 metre of core between the two. Each			27.0	27.5	10	0									
		core block reconciled with the preceding and			27.5	27.9	13	0									
		following blocks so it was decided to reduce all core			27.9	28.4	102	0									
		blocks down to and including the top "34.9m" block.			28.4	29.0	100	0									
					29.0	29.5	58	0									
24.0	28.1	**Tertiary (unconsolidated) conglomerate**	TER		29.5	30.0	58	0									
		Dark yellowish orange (weathered) in colour. Clasts			30.0	31.5	80	0									
		~70% rounded to sub-angular vein quartz and quartzite with			31.5	31.9	63	0									
		~30% quartzose sandstone (including some gritty sandstones)			31.9	33.4	97	40									
		similar to underlying sandstone. Apparent foliation in sandstone			33.4	34.9	67	0									
		clasts S0? S1? Most quartz vein clasts (including some			34.9	35.9	81	0									
		arguably rubbly in-situ vein material) are between 25.5m and			35.9	36.9	190	25									
		28.1m. Some minor oxidised vugs and fresh pyrite cubes			36.9	38.1	48	0									
		(to ~2mm cubed) in this quartz.			38.1	39.8	39	0									
					39.8	40.0	230	0									
28.1	30.3	**Sandstone >> shale**	DCH	sst/	40.0	41.1	90	0									
		Yellowish orange (weathered) to light grey (fresher)		slh	41.1	43.2	43	7									
		quartzose sandstone consisting of ~98% quartz with ~2%			43.2	44.2	88	0									
		dark pelitic? clasts with occasional discernible foliation			44.2	45.2	36	0									
		at ~ 5° core axis though there are also liezer-gange rings.			45.2	46.2	18	0									
					46.2	47.2	8	0									
30.3	32.4	**Shale interbed in sandstones**	DCH	slh	47.2	48.6	12	0									
		Medium grey shale interbedded in sandstone (as above).			48.6	49.6	38	0									
		Bedding is at very low angle to core (see diagram below).			49.6	50.6	49	0									
		S1 is refracted across the contact between the sandstones			50.6	51.6	50	0									
		and shales. Fine ferruginous joints sub-parallel to S1			51.6	53.1	31	0									
		make' into fine quartz veinlets. This set is apparently			53.1	54.3	100	0									
		postdated by some similar joints/quartz veinlets (see diagram).			54.3	55.5	38	0									
					55.5	56.6	48	0									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
32.4	33.3	**Sandstone**	DCH	sst	56.6	57.6	52	0									
		Yellowish orange (weathered) with reddish tinge.			57.6	58.6	125	0									
		Quartzose sandstone with thin interbeds of shale.			58.6	59.1	134	0									
					59.1	59.6	8	0									
33.3	35.5	**Shale/siltstone**	DCH	slh	59.6	60.6	19	0									
		Light grey to medium dark grey finely bedded (beds 2 - 15mm)			60.6	61.6	20	0									
		with some beds more silty, others more shaley. S0 is ~8% at			61.6	63.6	8	0									
		34.6m. Core is generally brecciated.			63.6	64.8	13	0									
					64.8	66.3	36	0									
35.5	38.1	**Quartz veined shale > siltstone**	DCH	slh	66.3	67.4	34	0									
		Similar to previous unit except that the core is less brecciated,			67.4	68.6	83	21									
		there is less siltstone and the core contains ferruginous quartz			68.6	69.6	72	0									
		veining. Veining is generally in broken core. There are ~5			69.6	70.8	80	0									
		veins up to 50mm wide. Veining is ~45° - 75° core axis.			70.8	72.3	47	7									
		There are ferruginous vugs but no fresh sulphides.			72.3	73.1	81	0	35.5	38.1	<0.01	<1	11	14	3	43	<0.01
					73.1	74.3	55	0									
38.1	43.1	**Shale > siltstone**	DCH	slh	74.3	76.0	29	0									
		Finely bedded shale > siltstone (beds 0.5 - 10mm). S0			76.0	76.7	140	0									
		remains consistently ~3°-5° core axis.			76.7	79.0	24	0									
					79.0	80.3	76	21									
43.1	45.2	**Quartz veined shale > siltstone**	DCH	slh	80.3	80.8	102	0									
		Similar to previous unit except core now contains ferruginous			80.8	82.3	49	27									
		quartz veining. Quartz veining contains graphite and			82.3	82.8	212	76									
		occasional cubic pyrite (0.5% total pyrite with cubes to 2mm)			82.8	83.8	145	55									
		with most pyrite 43.1m - 43.2m. ~70% ferruginous quartz with			83.8	84.4	58	0									
		~30% shale > siltstone.			84.4	85.4	130	27	43.1	45.2	<0.01	<1	6	11	13	54	0.16
					85.4	86.9	27	7									
45.2	48.6	**Shale and siltstone**	DCH	slh	86.9	87.6	57	0									
		Broken core but bedded shale and siltstones as			87.6	89.8	26	13									
		above. From 45.2m to 45.3m and 48.4m to 48.6m are two zones			89.8	91.4	27	0									
		of quartz vein in rubble. Some minor disseminated pyrite			91.4	92.6	97	22									
		in this veining.			92.6	94.8	24	5									
					94.8	95.7	207	56									

From	To		Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
48.6	53.2	**Siltstone > shale**	DCH	slh	95.7	96.9	79	16									
		Interbedded dark greenish grey siltstones and very dark grey			96.9	97.4	150	20									
		shales with beds 5mm - 25mm thick. S0 ~15° core axis at			97.4	98.7	88	49									
		50.8m and S1 ~20°-25° with ~5° rotation (see diagrams below).			98.7	99.5	59	0									
		At 53.1m S1 is very slaty suggesting S0 is closer to S1.															
53.2	55.6	**Quartz veined shale**	DCH	slh													
		Broken core with 30% - 40% white fibrous quartz veining.															
		Probably 4 such veins @ ~45° core axis. Most quartz is in															
		rubble and in sheared brecciated shale															
55.6	73.0	**Siltstones and shales**	DCH	slh													
		Similar to unit from 48.6m - 53.2m but more broadly interbedded							53.2	55.6	<0.01	<1	4	13	10	46	0.37
		with core siltstone above 69.0m and shaley below. S0 is 28°															
		at 70.0m. From 72.1m to 72.3m is contorted															
		quartz+carbonate veining which is pre- or syn- cleavage															
		(referred to here as S1).															
									72.1	72.3	<0.01	<1	3	13	3	65	0.21
73.0	80.2	**Sandstone > siltstone > shale**															
		Dominantly dark greeenish grey sandstone with lesser															
		siltstone and minor black shale. Actually two fining up															
		units. One unit fines from sandstone at 76.4m (base) up to															
		the shales at the base of the overlying unit. The other unit															
		fines up from sandstone at base (80.2m) to shales from															
		76.3 - 76.7m. The sandstone is quartzose with very															
		rare pelitic lithics. The matrix of the sandstone becomes															
		calcaroues (calcite) below ~76m. Sandstones above this															
		would have been calcareous but for leaching by groundwater.															
		S0 at 77.1m is 15° core axis. Occasional quartz+carbonate															
		veins 5 - 30mm thick at ~70° are very similar (and probably															
		same generation) as the contorted quartz+carbonate veining															
		from 72.1m to 72.3m.															

Hole **B48**

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	Assays To	Au	Ag	As	Cu	Pb	Zn	S
80.2	99.5	**Sandstone > siltstone > shale**							86.9	87.6	<0.01	<1	<1	11	12	48	0.04
		Series of 8 very similar grossly fining up units with sandstone															
		base, through more silty material to thin very dark grey shaley															
		tops. Individual units are from: 99.5m (EOH so below this) to															
		96.8m; 96.8m to 94.5m; 94.5m to 90.3m; 90.3m to 88.5m;															
		88.5m to 87.6m; 87.6m to 86.7m; 86.7m to 84.3m and 84.3m to															
		81.7m. There are no classic turbiditic textures (except for															
		some wavy laminations in siltier zones).															
		End of hole at 99.5m															

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B49

Date Started	:	6 February 1998	**Drilled by**	:	Stacpooles
Date Completed	:	17 February 1998	**Logged by**	:	Grant MacDonald

Collar

Northing	:	5438540.89
Easting	:	482495.61
R.L.	:	110.06
Dip	:	90
Bearing	:	NR

Hole Details

Final Depth	:	114.2
Hole Length	:	114.2
Core Size	:	0-35m, RC; 35m-114.2m HQ

Purpose

Determine rock type beneath mill site

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log - Down Hole Survey Data

Hole Number **B49**

Depth	Dip	Brg (A.M.G.)	From	To	Length	Sin.Dip	Vertical Difference	R.L.	Cos.Dip	Horizontal Difference	Cos.Brg	Diff. N	Northing	Sin.Brg	Diff. E	Easting
Collar								110.06					5438540.89			482495.61
0	-90.0		0	45	45	-1.00	-45.00	65.06	0.00	0.00	1.00	0.00	5438540.89	0.00	0.00	482495.61
90	-90.0		45	114.2	69.2	-1.00	-69.20	-4.14	0.00	0.00	1.00	0.00	5438540.89	0.00	0.00	482495.61

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole B49

From	To	Description	Unit	Code	From	To	Rec	RQD	Assays								
							(%)	(%)	From	To	Au	Ag	As	Cu	Pb	Zn	S
0.0	35.0	**Not cored - tricone and blade**	TER		35.0	36.0	19	0									
					36.0	37.0	83	12									
35.0	93.3	**Sandstones/siltstones/shales**	DCH	sst/	37.0	38.0	69	10									
		The hole has drilled essentially down-dip of bedding with		slh	38.0	39.0	70	0									
		S0 ranging from 3° - 45° but averaging ~15° to core axis.			39.0	40.0	60	0									
		Generally dark greenish grey to medium dark grey sandstones			40.0	41.0	89	32									
		(quartzise and micaceous)			41.0	42.0	77	16									
		and siltstones with greyish black shales. Esentially a series of			42.0	43.0	72	0									
		complete or partly complete fining-up cycles with an ideal			43.0	44.0	80	20									
		cycle having a more massive sandstone base overlain by			44.0	45.0	70	0									
		finely bedded (mm's) siltstones, and minor shales, in turn			45.0	46.0	80	0									
		overlain by black shales. Some textures indicative of			46.0	47.0	65	0									
		soft-sediment deformation (micro-faults, wavy cross-bedding)			47.0	48.0	88	16									
		Contact with underlying unit is defined by			48.0	49.0	103	0									
		No sulphides or quartz veining in this unit.			49.0	50.0	87	0									
		The rock becomes increasingly foliated with decreasing			50.0	51.0	84	0									
		grain size. This cleavage is steeper than bedding with its dip			51.0	52.0	110	19									
		direction rotated clock-wise ~5° - 15° i.e. more easterly.			52.0	53.0	101	18									
		35.00 - 36.80 sandstone			53.0	54.0	86	0									
		36.80 - 37.80 bedded siltstone with S0 25° ca			54.0	55.0	96	0									
		37.80 - 38.30 sandstone			55.0	56.0	100	26									
		38.30 - 40.00 bedded siltstone>shale with S0 45°			56.0	57.0	86	0									
		40.00 - 40.80 bedded siltstone			57.0	58.0	87	14									
		40.80 - 41.20 sandstone			58.0	59.0	81	30									
		41.20 - 42.70 bedded siltstone with S0 32°			59.0	60.5	92	13									
		42.70 - 44.50 sandstone>>siltstone			60.5	62.0	89	21									
		44.50 - 45.00 siltstone, foliated			62.0	63.5	77	24									
		45.00 - 45.70 sandstone			63.5	65.0	80	0									
		44.50 - 45.00 foliated siltstone			65.0	66.3	60	0									
		45.70 - 47.80 siltstone with minor sandstone			66.3	67.8	100	33									
		47.80 - 48.30 foliated black shale with puggy upper contact			67.8	68.9	99	35									

From	To	Description	Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
		48.30 - 50.00 sandstone and fine-grained sandstone. 10mm			68.9	69.8	29	0									
		fibrous quartz vein @ ~70° ca			69.8	70.4	98	48									
		50.00 - 53.00 bedded siltstone with S0 ~3°-5° ca			70.4	70.9	106	42									
		53.00 - 55.20 sandstone			70.9	72.4	91	21									
		55.20 - 63.50 bedded siltstone with S0 ~5°-15° ca			72.4	74.0	100	23									
		63.50 - 64.00 sandstone			74.0	75.5	100	51									
		64.00 - 68.90 siltstone with S0 17° ca			75.5	77.0	85	61									
		68.90 - 70.20 fine-grained sandstone			77.0	78.5	88	34									
		70.20 - 72.10 siltstone, S0 dips 57°-053° and 60°-077° @			78.5	80.0	96	37									
		71.2m with S1 70°-070°. At 71.5m S1 is			80.0	80.8	94	14									
		73°-060°, at 71.7m S1 is 70°-048° (all TN)			80.8	82.3	93	49									
		72.10 - 75.40 fine-grained sandstone>siltstone			82.3	83.0	97	19									
		75.40 - 78.50 sandstone with occasional black shale rip-up			83.0	84.5	88	32									
		clasts			84.5	86.0	100	11									
		78.50 - 83.00 siltstone>sandstone with S0 15°-18° ca			86.0	86.7	107	14									
		83.00 - 87.70 sandstone with 20mm quartz vein @ 84.40m			86.7	88.2	95	38									
		87.70 - 89.80 siltstone and fine-grained sandstone			88.2	89.0	88	48									
		89.80 - 93.30 siltstone with S0 18° ca			89.0	89.5	84	0									
					89.5	90.0	158	48									
93.3	104.2	**Siltstone/shale with some quartz veining**	DCH	slh	90.0	90.1	400	230	93.3	94.2	<0.01	1	3	18	<3	52	0.08
		Dark grey siltstone and shaley siltstone getting darker down-			90.1	92.0	7	0	94.2	95.2	<0.01	1	7	10	6	38	0.15
		hole. Similar to overlying rocks but with only minor sandstones.			92.0	92.5	36	0	95.2	96.2	<0.01	1	5	16	4	65	0.07
		The hole is still drilling essentially down-dip with S0 0°-20° ca.			92.5	93.0	26	0	96.2	97.2	<0.01	1	<1	15	10	54	0.06
		This rock shows some soft-sediment deformation exploited			93.0	94.5	101	56	97.2	98.2	<0.01	<1	<1	28	6	78	0.12
		by subsequent quartz+calcite veining as a fine network			94.5	96.0	97	37	98.2	99.2	<0.01	<1	<1	27	4	73	0.2
		of veinlets generally sub-parallel to the core axis.			96.0	97.5	91	51	99.2	100.2	<0.01	<1	9	39	10	66	0.41
		This zone is essentially the selvedge to yhe main zone of			97.5	99.0	91	57	100.2	101.2	<0.01	<1	<1	29	6	59	0.54
		quartz veining below. Larger fibrous quartz±calcite veins			99.0	100.5	99	34	101.2	102.2	<0.01	<1	1	32	<3	81	0.09
		are from 99.60-99.80m, 100.30-100.50m and 104.40-104.50m,			100.5	102.0	126	51	102.2	103.2	<0.01	<1	3	29	<3	64	0.33
		all with only minor disseminated pyrite in the veining. There is			102.0	105.0	94	16	103.2	104.2	<0.01	1	25	52	29	67	1.76
		also some disseminated pyrite in the shaley rock and some			105.0	106.0	73	0	104.2	105.2	<0.01	<1	5	52	35	30	1.26
		stratiform pyrite @ 104.10m.			106.0	107.0	51	0	105.2	106.2	<0.01	<1	25	55	31	32	1.32
					107.0	108.5	90	7	106.2	107.2	<0.01	<1	10	47	31	50	1.42

From	To		Unit	Code	From	To	Rec (%)	RQD (%)	Assays From	To	Au	Ag	As	Cu	Pb	Zn	S
104.2	111.1	**Quartz veined zone**	DCH	ven	108.5	109.6	92	11	107.2	108.2	<0.01	<1	<1	21	8	49	0.27
		Zone of more intense quartz±calcite veining and deformation.			109.6	111.1	93	7	108.2	109.2	<0.01	<1	<1	15	20	46	1.49
		Though the foliation is sub-parallel to the core axis, the veins			111.1	112.2	88	0	109.2	110.2	<0.01	<1	5	9	25	23	1.46
		are generally at more moderate angles to the core axis.			112.2	113.2	82	0	110.2	111.2	<0.01	<1	<1	15	33	45	1.74
		There is a marked change in rock, particularly colour, at			113.2	114.2	60	15									
		107.20m. Above this the rock is a dark grey shale and shaley															
		siltstone, below this the rock is a greenish grey shaley															
		siltstone. Both rocks are foliated with the foliation wrapping															
		around the quartz veining. There is minor pyrite in some															
		veining and occasional occurrences of pyrite in the adjacent															
		rock.															
		The quartz veining does not appear to be part of an															
		obvious reef structure even though there is a strong															
		possibility that the contact at 107.2m is faulted.															
		Individual quartz±calcite veins are up to 200mm wide.															
		Fibrtes in the veining are at low angles to ca supporting															
		the interpretation that these veins are from the same set as															
		the smaller occasional veins seen elsewhere in this															
		hole and in B48.															
111.1	114.2	**Shaley siltstone**	DCH	slh													
		Greenish grey shale and shaley siltstone. S0 @ 23° ca with															
		S1 rotated 5°-10° clockwise and dipping more steeply than S0.															
		Some bedding confromable calcite+pyrtie veins to 20mm are															
		veins exploiting bedding. There is no calcite in the matrix															
		of any of these rocks.															
		114.2 metres End of Hole															

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC43

Date Started	:	30 September 1997	**Hole Details**	:	0 - 6m, 8½" open hole hammer (PVC to 6m) 6 - 70.5m, 4¾" face sampling hammer
Date Completed	:	30 September 1997			

Collar

			Drilled by	:	Stacpoole's Fox B40L
			Drillers	:	Terry Lodge/Wayne Bald
Northing	:	5438664.47			
Easting	:	484020.90	**Logged by**	:	Gerald Purvis
R.L.	:	94.56			
Dip	:	60°			
Bearing	:	~330° (magnetic) - taken by compass over open hole			
Depth	:	45			

Purpose

Follow up anomalous results from RC11 at the western end of the Tasmania Open Cut

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC43

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
0.0	1.0	pl gry-brn sandy soil w unox qtzose sst, qzt and lesser qtz			sandy soil	0	4	0.01	3		
1.0	2.0	pl gry-brn sandy soil w unox qtzose sst, qzt and lesser qtz									
2.0	3.0	brn unox qtz sst (some cse), small unox qzt peb <10mm min qtz									
3.0	4.0	brn med gr qtz sst ox min qtz and unox qzt			qtz sst - bedrock						
4.0	5.0	pl crfn med gr ox qtz sst min unox qzt				4	8	<0.01	2		
5.0	6.0	fn ox leached qtz sst med gr 5% unox qzt									
6.0	7.0	pl brn virtually no chips			ox friable slst sst						
7.0	8.0	pl brn few chips med gr ox qtz sst									
8.0	9.0	pl brn ab cs chips hard ox qtz sst med gr			qx sst mod ox	8	12	<0.01	2		
9.0	10.0	pl brn ab cs chips hard ox qtz sst med gr									
10.0	11.0	dk brn med gr qtz sst 10% vn qtz									
11.0	12.0	brn med gr qtz sst ox									
12.0	13.0	fn brn hard med gr qtz sst min mica				12	16	<0.01	2		
13.0	14.0	fn brn hard med gr qtz sst min mica									
14.0	15.0	fngy hard unox sl ser qtz sst 30% sst as above			sl ser qtz sst unox						
15.0	16.0	fngy hard unox sl ser qtz sst 20% sst as above									
16.0	17.0	fngy hard unox sl ser qtz sst 10% sst as above No qtz				16	20	0.01	2		
17.0	18.0	gy brn 80% ass above 20% sl ox no qtz									
18.0	19.0	fn 50:50 unox and wk ox sl ser qtz sst as before			min ox						
19.0	20.0	gy fn med gr qtz sst as above min ox on fr tr qtz									
20.0	21.0	gy brn mod ox sst as above some prom mn stains on frac				20	24	0.03	3		
21.0	22.0	plbrn pl grn gy ser sst stronger ser than before 30% ox sst									
22.0	23.0	fn sst as above sl ox									
23.0	24.0	gy sst as above tr ox on frac only									
24.0	25.0	fngy sst as above min ox on frac				24	25			0.08	<1
25.0	26.0	fn gy 33:33:33 sst: ox sst: qz peb to 10 mm				25	26			0.25	1
26.0	27.0	gy brn sst as before wk min and ox on frac			sst weakly ox	26	27			0.21	<1
27.0	28.0	gy brn sst as before wk min and ox on frac				27	28			0.22	4
28.0	29.0	fngy 60% sst as above 40% wk ox sst pervasive				28	29			0.27	1
29.0	30.0	fn gy sst as above min ox				29	30			0.22	<1
30.0	31.0	fn gy sst as above tr ox on frac				30	31			0.2	1

Hole BRC43

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
31.0	32.0	gy brn 50:50 sst as above and mod ox sst			Mod ox sst	31	32			0.78	4
32.0	33.0	dk brn 70% mod strong ox qzt sst min 30% vn qtz				32	33			12.2	34
33.0	34.0	dk brn min qtz mostly ox qtz sst mn stains				33	34			2.3	17
34.0	35.0	v dk brn str ox mn stained qtz sst with tiny qtz vt			str ox and mn zone in qtz sst	34	35			1.86	5
35.0	36.0	brn blk str mn stain leached qtz sst and vn qtz			min qtz vn	35	36			2.65	1
36.0	37.0	cavity			mn stained close to lode						
37.0	38.0	cavity									
38.0	39.0	cavity									
39.0	40.0	cavity									
40.0	41.0	cavity									
41.0	42.0	dk brn blk highly mn stained ox qtz sst w qtz vn manganiferous			Possibly fill w qtz vn mn qtz sst from lode	41	43			1.82	3
42.0	43.0	dk brn blk highly mn stained ox qtz sst w qtz vn manganiferous			Possibly fill w qtz vn mn qtz sst from lode						
43.0	44.0	dk brn blk highly mn stained ox qtz sst w qtz vn manganiferous			Possibly fill w qtz vn mn qtz sst from lode	43	44			0.87	2
44.0	45.0	dk brn blk highly mn stained ox qtz sst w qtz vn manganiferous			Possibly fill w qtz vn mn qtz sst from lode						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC44

Date Started : 30 September 1997

Date Completed : 30 September 1997

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 6m)
6 - 70.5m, 4¾" face sampling hammer

Collar

Northing : 5438645.53
Easting : 484037.43
R.L. : 94.48
Dip : -59°
Bearing : ~330° (magnetic) - taken by compass over open hole
Depth : 45

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Gerald Purvis

Purpose

Follow up anomalous results from RC11 at the western end of the Tasmania Open Cut

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

1·10·97: To 21m.   s/o 4.   -59 ~~-60~~° to 343° AMG

Diamond Drill Core Log

Hole BRC44

x6HT	From	To	Description	Interp.	Unit	Code	From	To	Rec (cm)	RQD (cm)	Assays From	Assays To
5kg.	0	1	Light & dk grey. Sandy soil c̄ minor chips of qtz, qtzite, qtz sst.	Soil ~~[illegible]~~								
0kg	1	2	Lightgrey. Sandy soil. Ditto - qtzite are pebble frags	Soil								
0kg	2	3	Pale fawn. " " Ditto	Soil								
0kg	3	4	Brown. 50% as above 50% brown Mn-stained ox qtz sst c̄ pebbles	Sandy damp: water from old working beside site.	Individ ~ 3-4m							
5kg	4	5	Greyefawn. Mostly minor qtzite qtz, qtz sst 40% white leached qtz sst	? ~~Soil~~? or ox qtz sst (leached)								
20kg	5	6	Fawn. 70% creamy ox qtz sst (med gr) 30% minor qtzite, qtz, qtz sst.	ox qtz sst (leached)								
2	6	7	~~[illegible]~~ Pale creamy grey. No chips. - Sand.	Slt ox ~~Sst~~ (~~qtzose~~)?								
5	7	8	Ditto. 1 or 2 tiny chips of ox slt	(Sst) ox slt								
15	8	9	Ditto No chips.	" "								
15	9	10	Ditto. " "	" "								
15	10	11	Ditto. 2 tiny chips - ox leached fine qtzose sst.	" "								
15+	11	12	Creamy. No chips	Sst ox slt (calc areas & clayey)								
+15	12	13	Sl yellowish-cream. Ditto.	" " " "								
+15	13	14	Pale grey. Many chips - hard creamy-grey ox med gr qtzose Sst	Ox sst - qtzose.								
15	14	15	Creamy-grey. Some few chips - as above but finer gr	" Sst/Slt. fine gr								
15	15	16	Sl yellowish-cream. Few chips - as above.	" Sst/Slt " " "								
15	16	17	yellow-cream. Rare tiny chips as above. Fi gr qtzose sst	ox " " ? "								
+15	17	18	" " No chips.	ox Slt ?								
15	18	19	" " Few chips. ox fine gr qtzose sst	ox Sst & Slt								
15	19	20	~~[illegible]~~ creamy-grey. Few chips: ox fine gr " "	" " " (?)								
15	20	21	" " . Chip-tiny. Fine-med gr qtzose sst	Ox Sst (& slt?)								
15	21	22	" " . Many chips. Hard med gr qtz sst - silvery grey - ox	weakly ox qtzose sst.								
+15	22	23	Ditto exactly. Rocks are v sl. sericitic sl ox	" "								
15	23	24	Fawny-grey. Ditto. sl ox.	" " " "								
15	24	25	Grey. Sst ditto. Some clay frags (lst?) Minor qtz frags (pebble frags?)	W " " & lst or slt?								
15	25	26	Fawny-grey. Minor ser qtzose sst (med gr) c̄ weak Mn-ox on fracts	sl ser Qtzose sst c̄ trace ox on fracts								
15	26	27	Creamy-grey. Ditto - Trace ox on fracts	" " " "								
15	27	28	Pale grey. Ditto sl greenish due to ser. Trace Fract ox. Hard	" " " " "								
15	28	29	Pale grey & brown. Mostly frags of qtz pebbles > ox qtzose sst	Qtz pebble conglom in ox qtz sst matrix								
15	29	30	Fawny-grey. Minor qtz pebbles. Mostly ser Qtz sst as before c̄ ox on fracts	ser Qtzose sst c̄ ox on fracts	Sst patch-st damp?							
10	30	31	Light brown. Fine-med gr qtzose Sst c̄ weak ox on fracts	Weakly ox Qtzose sst								

[redacted]NSI[redacted]D M[redacted]E J[redacted]T VENTU[redacted]

2.10.97: 21 ~

Diamond Drill Core Log

Hole BRC 44 Page 2 of 4

	From	To	Description	INTERPRETATION	Unit	Code	From	To	Rec (cm)	RQD (cm)	Assays From	Assays To
15	31	32	Pale fawn, sl ser medium gr Qtz sst, some weakly ox. Rare qtz pebbles	Qtzose sst - weakly ox.								
+15	32	33	Creamy-grey. fine-med gr " "	Unox Qtzose sst								
15	33	34	Pale fawn Hard grey medium gr Qtzose sst c̄ trace py c̄ some creamy ox frags + ox on facts	Trace ox " " Trace py								
10	34	35	Fawn. Weakly ox sl ser qtzose sst.	Weakly ox ser Qtzose sst.								
15	35	36	~~Fawn~~ Pale brown, Grey unox qtzose sst c̄ qtz ~~veinlets~~ (20%). Lim on facts	Unox sst c̄ qt veinlets + weak lim on facts								
15	36	37	Creamy-fawn. Sl ser sst 20% white vein qtz. Trace ox on facts	ser Sst c̄ qtz veinlets.								
15	37	38	Pale grey, Qtzose sst. Trace ox on facts	Qtzose sst.								
15	38	39	Fawny grey. Qtzose sst c̄ tiny qtz + qtzite pebbles	Qtz grit/microcong. c̄ sst matrix								
12	~~39~~	40	Fawn. Weakly ox qtzose sst + frags of qtz + qtzite pebbles	" " "								
15	40	41	Fawn. W " " " " "	Weakly ox Sst.								
15	41	42	Pale fawn. Ditto.	" " "								
8	42	43	Pale brown. Soft for last 0.4m. Ox qtzose sst c̄ rare qtz frags	Soft patches of Ox sst c̄ qtz grit layers								
15	43	44	Pale fawn Unox sl ser grey med gr qtzose sst.	Qtzose sst.								
15	44	45	Pale grey. Hard unox med-coarse gr qtzose sst.	" "								
+15	45	46	Fawnish. Mostly as above. Some sst c̄ weak ox on facts + rare qtz pebble frags	= = Ditto	Qtz grit band (weakly ox)							
+15	46	47	Fawny-grey. Sst as above c̄ thin ox on facts, weak	Qtzose sst c̄ weak ox on facts								
15	47	48	Grey. / Grey sl ser qtz sst c̄ numerous tiny qtz + qtzite pebbles	Qtz sst c̄ qtz grit bands.								
15	48	49	Grey. Light grey + dk grey-black sl ser qtzose Sst. Rare qtz pebble frags	Qtz sst - some black								
12	49	50	Light grey Light grey sl. ser qtzose sst.	" "								
12	50	51	Light grey Grey qtzose sst c̄ minor ox on facts + rare qtzite frags	Qtz sst.								
15	51	52	Fluvial. Some contam (30%?) from walls of explore. Sl ox + weathered ser qtzose Sst	Contam?								
9	52	53	Fawny-brown sl ser qtzose sst c̄ weak ox on facts	Qtz sst c̄ ~~...~~ ox on facts								
15	53	54	Ditto. Grey + brownish ser qtzose sst c̄ rare qtz veinlets + qtz pebbles	Weakly ox qtz sst (ser) c̄ v minor qtz veinlets + qtz pebbles bands								
12	54	55	Pale brown. Ser qtzose sst c̄ rare tiny qt veinlets + minor small qtz pebbles + trace ox on facts	Ditto. Broken ground								
+15	55	56	Pale fawny-brown. Grey ser qtzose sst.	Weakly ox qtzose Sst			ground					
+15	56	57	Grey. Unox ser qtzose sst (med gr). Rare qtz veinlets	Unox. ser qtzose sst, rare qtz veinlets			harder -					
15	57	58	Grey: Unox dk grey fi-med gr qtzose sst	unox Qtzose sst								
15	58	59	Grey. Unox dk grey-black fi-med gr Qtzose sst	Sl carbonaceous qtzose sst (unox)			Totally unox					
15	59	60	Grey Ditto Rare tiny qtz veinlets	Ditto. Rare qtz veinlets								
15	60	61	Grey. Ditto 50% + 50% light-grey ser Sst	Ditto. ser in places (along fracts?)								
15	61	62	Grey. Dk grey-black + brown (ox) sst c̄ qtz pebble/frags.	Qtz grit band in Sst								

15

Diamond Drill Core Log

Hole BRC 44

	From	To	Description	Interp	Unit	Code	From	To	Rec (cm)	RQD (cm)	Assays From	Assays To
15	62	63	Grey. Black carbonaceous (re-melge) qtzose sst c̄ weak ox + ser on facts	Black qtzox sst								
15	63	64	Fawn. Weakly ox sl ser sst (med gr) Hard	Weak ox ser sst.								
15	64	65	Fawn. Ditto. Ox mainly on facts "	" " " "								
15	65	66	Fawny-grey. Ditto Rare qtz veinlets	" " " " c̄ qtz veinlets (rare)								
15.	66	67	Dk brown ~~[illegible]~~. Mn-stained, ~~[illegible]~~ hard brown ox ser Qtz sst c̄ common qtz veinlets →			TASMANIA						
12	67	68	Ditto Less qtz veinlets.	Ditto		REEF						
+15	68	69	Dk brown sl mn-stained + ox silt, pyritic + qtz-veined coarse qtz sst/grit.	Wood frags ~~Ditto~~ qtz grit c̄ qtz veins - less ox + working		SECTION.						
15	69	70	Grey. Sl mn-stained, Otherwise unox qtz grit + coarse gr sst	[illegible] Qtz grit + sst								
20	70	71	Dk grey-brown. Qtz veinlets in highly pyritic qtz sst. Weak Mn stains	Lode Zone - qtz veins in pyritic sst.								
20	71	72	Dk grey-brown. Ox qtz grit + coarse sst. Weak Mn stains	Ox qtz grit + sst								
15	72	73	Grey. Very weakly ox sst + grit	Weakly ox " " " "								
12	73	74	Wood frags very common Dk grey-black qtz sst. Minor qtz fine gr	Qtz sst c̄ qtz veinlet (minor) + old working.								
12	74	75	Dk grey. Black med gr qtz sst c̄ py cubes + trace qtz veinlets →									
12	75	76	" " ". Black coarse gr qtz sst. V minor qtz. Some wood frags	Qtz sst c̄ minor qtz veinlets.								
12	76	77	Grey. Dk grey-black ~~[illegible]~~ med-coarse qtz sst → grit	Qtz sst → grit								
12	77	78	Grey. Dk grey-black qtzose sst c̄ trace py + minor grit	" " "								
10	78	79	Grey. Dk grey black coarse qtz sst c̄									
15	79	80	Fawny-grey. Med gr qtz sst c̄ ox on facts	[illegible] qtz sst c̄ [illegible] ox								
15	80	81	" (Weak ox) + minor qtz grit	[illegible]								
15	81	82	Grey. Qtz grit + microcong + sst	Qtz sst c̄ cong + grit bands								
15	82	83	Dk grey. Black med gr qtz sst c̄ minor py. Trace grit	Black Qtz sst - carbonaceous.								
12	83	84	Dk grey. Sst at base. Ditto - some weak ox material. Trace grit	" " " "								
12	84	85	Dk grey. Dk grey-black carbonaceous + pyritic Qtz sst + qtz veinlets	Black pyritic qtz sst. Med gr Rare qtz veinlets.								
20	85	86	Grey. Ditto but only trace py + no veins.	Black sst								
15	86	87	Grey. Black sst + grit.	Black sst + grit.								
15	87	88	Dk grey. Black sst c̄ sl ox on facts	" "								
12	88	89	Grey. Dk grey medium gr qtz sst - sl ser.	Qtz sst - sl ser								
15	89	90	Grey. Dk grey-black carbonaceous med gr sst + minor grit	Qtz sst + minor grit bands								
15	90	91	Grey. Black carbonaceous + pyritic qtz sst - med gr	Black Qtz sst - pyritic.								
15	91	92	Grey. " " sl pyritic " " + qtz grit.	" " " + grit.								
285	92	93	Grey. " " + pyritic qtz sst	" pyritic qtz sst								

BEACONSFIELD MINE JOINT VENTURE

3·10·97: 90 — 115·4m (EOH)

Diamond Drill Core Log

Hole BRC 44.

	From	To	Description	INTERP	Unit	Code	From	To	Rec (cm)	RQD (cm)	Assays From	Assays To
12 ~~15~~	93	94	Dk grey Black carbonaceous med gr qtz sst c̄ minor py	Black qtz sst pyritic								
15	94	95	Dk grey. Black qtz grit > sst	Grit band in sst		all rocks c̄ trace	graph					
10	95	96	Dk grey. " " sst > grit	sst								
15	96	97	Dk grey. Black qtz sst c̄ minor py.	Black pyritic Sst								
12+5	97	98	Dk grey. " " " " " " " + qtz grit	Sst c̄ qtz grit								
12+5	98	99	" " Black fine-med gr qtz sst c̄ minor grit	Pyritic qtz sst								
15	99	100	Dk grey Ditto	" " "								
20+5	100	101	" " Black sst ditto + qtz grit	" " " c̄ grit band								
20	101	102	Dk grey Black qtz sst	Black qtz sst								
15	102	103	Dk grey. " " c̄ trace py + H brown ox on fracts	" " } ox on fracts		LODE						
15	103	104	Grey c̄ brown tinge Ditto. — more py + ox on fracts	" pyritic c̄ }		~~?~~ ? Sst flow.	Veined + fractured pyritic sst					
15	104	105	Grey & brown. Grey-black pyritic qtz sst c̄ 25% weakly ox frags.	" " " " c̄ weak ox in places.								
15	105	106	Grey. Black pyritic sst > grit & microcong. 25% c̄ brown ox stains qtz-py	Black pyritic sst, grit, cong c̄ minor qtz-py veinlets c̄ weak ox on fracts in places.								
15	106	107	Dk grey. Grey & black highly pyritic sl ser sst c̄ numerous qtz veinlets.	Strongly py sst c̄ qtz veins								
12	107	108	Dk grey. Black sst - pyritic c̄ frags of white vein qtz to 20mm. ox on fracts	" " " " " c̄ weak ox on fracts.					LODE ZONE		105 – 110m	
15	108	109	Grey & brown. Black pyritic sst c̄ qtz veins & veinlets (frags to 10mm) + 30% ox sst - beige pervasive	" " " + ox bands on fracts		Poss GOLD on TS? (frag 7mm)						
15	109	110	Dark grey. Black pyritic sst c̄ qtz veins to 10mm (c̄ trace py). Trace ox on fracts	" " " " Trace ox on facts.		fractured & broken.						
15	110	111	Grey & dk grey Grey-black ser sst, trace py. No veins, 10% weakly ox (on fracts prob).	Sst ~~pyritic~~ c̄ minor ox on fracts								
15	111	112	Grey c̄ brown tinge. Black med pyritic sst. No veins, 2% weakly ox	" " " " "								
15	112	113	Dk grey, Black, strongly pyritic fine-med gr Sst c̄ py-brown ox on fracts & trace tiny qtz veinlets	] Pyritic sst c̄ trace ox + veinlets.								
15	113	114	Grey c̄ brown tinge. Black pyritic sst c̄ common brown ox stains on fracts & minor	" " " ox on fracts & trace minor qtz veinlets								
12	114	115	Grey. Black py sst - 20% pale qtz sst + qtz-ser siltst c̄ py. Minor vein qtz.	Py sst c̄ silt beds + minor qtz veinlets.								
	115	116	EOH @ 115m - rods jammed in broken ground.									
	116	117	115·4m.									
	117	118										
	118	119										
	119	120m										
			EOH									

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC45

Date Started : 5 November 1997

Date Completed : 6 November 1997

Hole Details : 0 - 6m, 6½" open hole hammer (PVC casing to 6m)
6 - 46m, 4¾" face sampling hammer

Collar

Northing : ~5438650mN
Easting : ~483992mE
R.L. : ~101 m.a.s.l.
Dip : 60°
Bearing : 330° (magnetic)
Depth : 46 metres

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Grant MacDonald

Purpose

Twin anomalous results from RC11 in HW to Tas Reef, Tas. open cut

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S
24	28.0	4.0		0.12						

Hole BRC45

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
		1% qtz aft pebbly cong/grit									
26.0	27.0	med dk gy sst, wy ox, 1% qtz aft pebbly cong/grit								0.16	5
27.0	28.0	dk gnish gy sst, wy ox on fracs, 3% qtz aft pebbly cong/grit								0.06	<1
28.0	29.0	60% dk gnish gy grit and 40% dk gnish gy sst, tc ox on				28	32	0.07	5		
		fracs, 2% qtz									
29.0	30.0	gnish gy sst w qtz aft pebbles, tc ox on fracs									
30.0	31.0	dk gnish gy sst w qtz aft pebbles, tc ox on fracs									
31.0	32.0	60% lt gnish gy grit/pebbly cong + 40% lt gnish gy sst			31 - 34m, Light greenish grey grit/						
32.0	33.0	60% lt gnish gy grit/pebbly cong + 40% lt gnish gy sst			pebbly conglomerate? and light	32	36	0.04	2		
33.0	34.0	50% lt gnish gy grit/pebbly cong + 50% lt gnish gy sst, tc ox			greenish grey sandstones						
34.0	35.0	gnish gy and dk gnish gy grits and pebbly cong?, tc ox			34 - 39m, Greenish grey and dark						
35.0	36.0	gnish gy and dk gnish gy grits and pebbly cong?, tc ox			greenish grey grits and pebbly						
36.0	37.0	gnish gy and dk gnish gy grits and pebbly cong?, tc ox			conglomerates	36	40	0.01	4		
37.0	38.0	gnish gy and dk gnish gy grits and pebbly cong?, tc ox									
38.0	39.0	gnish gy pebbly cong and grits, tc ox									
39.0	40.0	gnish gy grits and lesser sst			39 - 41m, Greenish grey grits and						
40.0	41.0	lt gnish gy grits and lesser sst			lesser sandstones	40	44	0.06	<1		
41.0	42.0	70% dk gy sst + 30% lt gnish gy grits and pebbly cong?			41- 42m, Dark grey sandstones and						
					pebbly conglomerate						
42.0	43.0	70% bnish gy grits and pebbly cong, my ox, + 30% dk gy sst,			42 - 46m, Moderately oxidised						
		3% qtz (smoky)			(pervasively) brownish grey grits and						
43.0	44.0	bnish gy grits and pebbly cong, my ox, **5% qtz - tc py** in			lesser conglomerates? Either fill of						
		pan. con.			hangingwall to the Tas reef with the last						
44.0	45.0	bnish gy grits, my ox, **2%qtz** (smoky) - poss **2 fg gold** in pan			metres (45 - 46m) probably fill.	44	46	0.04	<1		
45.0	46.0	75% bnish gy grits + 25% bnish gy sst and fg sst, my ox, **5% qtz**			*gone soft at start of 46 - 47m*						
					Rods stuck at ~46.3 metres						
					but retrieved						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC45

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
0.0	1.0	med lt gy and mod dk gy sand w fern roots			0 - 4m, Scree cover	0	4	<0.01	1		
1.0	2.0	my ox, lt bnish gy sand w rdd q pebbles aft pebbly cong and									
		mn med dk gy sst.									
2.0	3.0	my ox, lt bnish gy sand w rdd q pebbles aft pebbly cong and									
		mn ox dk gy sst/grit w **10% qtz** (milky)									
3.0	4.0	my ox lt ol gy sand w q pebbles aft pebbly cong									
4.0	5.0	my ox bnish gy humic soil w 70% ang bnish gy qtzose sst			4 - 5m, Soil	4	8	<0.01	1		
		+ 30% rdd pebbly cong									
5.0	6.0	wy wed lt ol gy to bnish gy qtzose sst w mn q pebbles aft			5 - 10m, Weakly oxidised sandstone						
		pebbly cong			(light olive grey to brownish grey) with						
6.0	7.0	wy wed, lt ol gy, qtzose sst w mn q pebbles aft pebbly cong			minor pebbles (contamination ?)						
7.0	8.0	med bluish gy qtzose sst w ox fracs									
8.0	9.0	70% lt ol gy 30% med bluish gy qtzose sst				8	12	<0.01	2		
9.0	10.0	lt bnish gy and lt ol gy qtzose sst									
10.0	11.0	gnish gy qtzose sst w tc ox on fracs			10 - 22m, Greenish grey quartzose						
11.0	12.0	gnish gy qtzose sst w tc ox on fracs			sandstones, minor pebbly zone 13-15m						
12.0	13.0	gnish gy qtzose sst w tc wen on fracs				12	16	<0.01	<1		
13.0	14.0	gnish gy qtzose sst w tc ox on fracs, 2% qtz aft pebbles									
14.0	15.0	gnish gy qtzose sst w tc ox on fracs, 10% qtz aft pebbles									
15.0	16.0	gnish gy qtzose sst w tc ox on fracs									
16.0	17.0	gnish gy qtzose sst w tc ox on fracs				16	20	0.02	1		
17.0	18.0	gnish gy to dk gnish gy qtzose sst									
18.0	19.0	gnish gy to dk gnish gy qtzose sst									
19.0	20.0	gnish gy to dk gnish gy qtzose sst									
20.0	21.0	gnish gy qtzose sst w tc ox on fracs			*becoming harder*	20	24	0.08	<1		
21.0	22.0	gnish gy qtzose sst w tc ox on fracs									
22.0	23.0	dk gnish gy qtzose sst w tc ox on fracs, 2% qtz aft pebbly cong			22 - 31m, Medium dark grey, greenish						
23.0	24.0	dk gnish gy and gnish gy qtzose sst w tc ox on fracs, 0.5% qtz			grey to dark greenish grey sandstones						
		aft pebbly cong/grit			and lesser grits and possibly minor pebbly						
24.0	25.0	gnish gy sst mod ox, 2% qtz aft pebbly cong/grit			conglomerates	24	28	0.12	<1	0.14	3
25.0	26.0	95% med dk gy sst 5% med dk gy grit (rdd qtz to 4mm), wy ox,								0.2	3

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC46

Date Started : 6 November 1997 (0 - 20 metres)

Date Completed : 7 November 1997 (20 - 49.8 metres)

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 3.4m)
6 - 49.8m, 4¾" face sampling hammer

Collar

Northing : ~5438055mN
Easting : ~484006mE
R.L. : ~97 m.a.s.l.
Dip : 60°
Bearing : 330° (magnetic)
Depth : 49.8 metres

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Grant MacDonald

Purpose

Test Tas Reef hangingwall/stope fill/footwall for shallow oxide ore

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC46

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
0.0	1.0	sand and plant material			0 - 7m, Scree cover	0	4	<0.01	<1		
1.0	2.0	sand and plant material									
2.0	3.0	lt bluish gy qtz pebbles aft pebbly cong/grit, my ox									
3.0	4.0	lt bluish gy qtz pebbles aft pebbly cong/grit, my ox									
4.0	5.0	lt bluish gy qtz pebbles aft pebbly cong/grit, my ox				4	8	0.01	<1		
5.0	6.0	med bluish gy pebbles aft pebbly cong, my ox									
6.0	7.0	lt ol gy gy sst + 5% med bluish gy pebbles qtz aft pebbly cong/grit,									
		my ox									
7.0	8.0	dk bnish soil w d bnish gy sst, sy ox			7 - 8m, Soil						
8.0	9.0	lt gnish gy sst w qtz pebbles aft pebbly cong/grit, my ox			8 - 14m, Weak to moderately oxidised	8	12	<0.01	1		
9.0	10.0	90% dk bnish gy sst + 10% qtz pebbles aft pebbly cong/grit, sy ox			(after generally greenish to dark						
10.0	11.0	ol gy sst w 2% qtz pebbles aft pebbly cong/grit, my ox			greenish) sandstones with variable						
11.0	12.0	lt ol gy and lt gnish gy sst w 2% qtz pebbles aft pebbly cong/grit,			quartz pebbles after pebbly						
		wy ox			conglomerates and grits						
12.0	13.0	50% lt gnish gy + 50% lt bluish gy sst, wy ox				12	16	<0.01	1		
13.0	14.0	60% lt gnish gy + 40% lt bluish gy sst and mn qtz aft pebbly									
		cong/grit, wy ox									
14.0	15.0	med bluish gy sst, wy ox			14 - 25m, Light bluish/greenish/						
15.0	16.0	lt gnish gy sst, **tc qtz** (smoky)			olive grey sandstones becoming						
16.0	17.0	lt bluish gy sst, tc ox on fracs			finer grained from 23 - 25m	16	20	0.03	<1		
17.0	18.0	med bluish gy sst, wy ox									
18.0	19.0	lt ol gy sst									
19.0	20.0	lt ol gy and lt bnish gy sst									
20.0	21.0	lt bnish gy and lt gy sst w 2% qtz pebbles aft pebbly cong/grit			*Contamination from overnight*	20	24	0.15	<1	0.23	5
21.0	22.0	gnish gy sst, tc ox on fracs								0.16	3
22.0	23.0	lt ol gy sst								0.14	2
23.0	24.0	med bluish gy sst (finer grained)								0.11	5
24.0	25.0	med bluish gy sst (finer grained)				24	28	0.29	<1	0.13	7
25.0	26.0	ol gy sst and lt ol gy sst (finer grained), my ox			25 - 27m, Mod. oxidised sandstones					0.22	6
26.0	27.0	bnish gy finer sst, my ox, **3% qtz** (milky)			*0.5 metres soft drilling*					0.37	<1
27.0	28.0	95% bnish gy sst and 5% qtz aft pebbly cong/grit, my ox			27 - 34m, Moderately oxidised grits					0.32	<1

Hole BRC46

From	To	Description	Unit	Code	Interpretation	Assays					
						From	To	Au-Cp	As-Cp	Au	As
28.0	29.0	bnish gy grits>pebbly cong and mn finer bnish gy sst, my ox			and sandstones and perhaps some	28	32	0.55	<1	0.33	1
29.0	30.0	bnish gy sst, my ox, **1% qtz** (smoky) vnt to 5mm			more conglomeratic bands with **0-3%**					0.55	3
30.0	31.0	bnish gy sst, my ox, **1% qtz** (smoky) vnt to 5mm			**quartz** as 2 - 5mm thick extensional					0.17	2
31.0	32.0	bnish gy sst and mn qtz aft pebbly cong/grits,			veins					0.33	1
		my ox, **3% qtz** (smoky) vnt to 5mm									
32.0	33.0	70% med bluish gy sst, 25% bnish gy sst, 5% pebbly cong				32	36	0.08	<1		
		and grit, wy/my ox									
33.0	34.0	97% med bluish gy sst + 3% aft pebbly cong/grit, wy ox									
34.0	35.0	dk bluish gy sst (finer), wy ox			34 - 36m, Dark bluish grey sandstone						
35.0	36.0	dk bluish gy finer sst, wy ox			(finer grained)						
36.0	37.0	dk bluish gy finer sst, wy ox, **2% qtz**			36- 43m, Generally moderately oxidised	36	40	0.22	5	0.14	4
37.0	38.0	bnish gy finer sst, my ox, **2% qtz**			sandstones (generally finer) and minor					0.16	1
38.0	39.0	bnish gy finer sst, my ox, **4% qtz**			grit with 0 - 4% quartz as 2-5mm thick					0.15	<1
39.0	40.0	bnish gy finer sst, my ox, **1% qtz**			extensional veins					0.28	1
40.0	41.0	med dk gy sst, wy ox				40	44	0.21	<1	0.04	<1
41.0	42.0	95% dk bnish gy sst + 5% grit, wy ox								0.27	3
42.0	43.0	dk bnish gy sst, wy ox, **3% qtz**								0.25	<1
43.0	44.0	dk ywish org cy, ~40% frags vn qtz, wood frags and ~30% dk			43 - 44m, old workings but possibly					0.29	4
		bnish gy sst and some pebbles aft pebbly cong/grit			only a narrow drive						
44.0	45.0	dk gy sst			44 - 45m, Dark grey sandstone	44	48	0.14	<1	0.42	2
45.0	46.0	20% dk gy sst, 80% med bluish gy grit/pebbly cong?			45 - 49m, Medium bluish to medium					0.12	1
46.0	47.0	med lt gy grits and pebbly cong?			light grey grits (pebbly conglomerate)					0.08	<1
47.0	48.0	80% med lt gy grits and pebbly cong? + 20% dk gnish gy sst			and minor sandstone					0.06	10
48.0	49.0	med lt gy grits and pebbly cong?								0.14	5
49.0	49.8	dk bnish gy sst, my ox, 3% qtz			49 - 49.8m, Probably fill, perhaps in						
					hangingwall to the Tasmania reef						
					Rods bogged at 49.8 metres but retrieved						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC47

Date Started	:	10 November 1997 (0 - 60 metres)	**Hole Details**	:	0 - 6m, 8½" open hole hammer (PVC to 6m) 6 - 70.5m, 4¾" face sampling hammer
Date Completed	:	11 November 1997 (60 - 70.5 metres)			

Collar

Northing	:	~5438628mN	**Drilled by**	:	Stacpoole's Fox B40L
Easting	:	~484015mE	**Drillers**	:	Terry Lodge/Wayne Bald
R.L.	:	~100 m.a.s.l.	**Logged by**	:	Grant MacDonald
Dip	:	60°			
Bearing	:	330° (magnetic)			
Depth	:	70.5 metres			

Purpose

Test Tas Reef hangingwall/stope fill/footwall for shallow oxide ore

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S
59	60.0	1.0	Olive grey grits with 3% quartz, trace arsenopyrite in pan. con.	4.81						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC47

From	To	Description	Unit	Code	Interpretation	Assays					
						From	To	Au-Cp	As-Cp	Au	As
0.0	1.0	bnish gy sand w plant frags			0 - 6m, Scree(?)	0	4	<0.01	3.00		
1.0	2.0	lt ol gy sand w plant frags and pebbly cong/grits>sst									
2.0	3.0	lt ol gy sand w plant frags and pebbly cong/grits>sst									
3.0	4.0	bnish gy cy soil w 30% pebble frags + 70% bnish gy sst, sy ox									
4.0	5.0	mod ywish bn clayey sand w 10% pebbles, my ox				4	8	<0.01	<1		
5.0	6.0	mod ywish bn clayey sand w 5% pebbles, my ox									
6.0	7.0	bnish gy soil, only few chips of bnish gy sst, sy ox			6 - 7m, Soil(?)						
7.0	8.0	50% lt gy sand w chips lt bluish gy sst + 50% gyish bn sst, my ox			7 - 10m, Moderately oxidised						
8.0	9.0	50% as for 7 - 8m, 50% lt gy sandy w chips lt bluish gy sst, my ox			sandstones	8	12	<0.01	2.00		
9.0	10.0	gyish bn peaty sand aft gyish bn sst, my ox									
10.0	11.0	lt gnish gy sst, wy ox			10 - 32m, Greenish grey, light olive and						
11.0	12.0	95% lt gnish gy sst + 5% pebbles aft pebbly cong/grit, wy ox			medium bluish grey sandstone and						
12.0	13.0	lt ol gy sst, wy ox			occasional minor quartz pebbles after	12	16	<0.01	<1		
13.0	14.0	lt ol gy sst, wy ox			pebbly conglomerate/grit						
14.0	15.0	lt ol gy sst, wy ox									
15.0	16.0	lt to med bluish gy sst, tc qtz aft pebbly cong/grit									
16.0	17.0	lt to med bluish gy sst				16	20	0.01	2.00		
17.0	18.0	lt to med bluish gy sst									
18.0	19.0	gnish gy sst w tc qtz aft pebbly cong/grit									
19.0	20.0	gnish gy sst w 3% qtz aft pebbly cong/grit									
20.0	21.0	med bluish to gnish gy sst, tc ox				20	24	0.01	3.00		
21.0	22.0	med bluish to gnish gy sst									
22.0	23.0	med bluish to gnish gy sst									
23.0	24.0	med bluish to gnish gy sst w tc qtz aft pebble cong/grit									
24.0	25.0	med bluish to gnish gy sst w tc qtz aft pebble cong/grit, tc ox				24	28	0.01	4.00		
25.0	26.0	lt gy sst w tc qtz aft pebbly cong/grit									
26.0	27.0	gnish gy to lt bluish gy sst w tc qtz aft pebbly cong/grit									
27.0	28.0	med bluish gy sst									
28.0	29.0	gnish gy sst - one frag apple gn (chromite?)				28	32	<0.01	1		
29.0	30.0	gnish gy sst w mn bnish gy my ox sst									
30.0	31.0	med bluish gy sst w tc ox on fracs									

Hole BRC47

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
31.0	32.0	med bluish gy sst w tc ox on fracs									
32.0	33.0	med bluish gy sst w tc ox on fracs, **1% qtz** (smoky) to 3mm			32-35m, Medium bluish grey & dark greenish	32	36	<0.01	1		
33.0	34.0	med bluish gy sst, **tc qtz**			grey sandstones with **trace** to **1% quartz**						
34.0	35.0	dk gnish gy sst, **1% qtz**(smoky)									
35.0	36.0	dk gnish gy > lt bnish gy sst w 1% qtz aft pebbly cong/grits, wy ox			35 - 37m, Dark greenish grey sandstones						
36.0	37.0	90% dk gnish gy sst + 10% qtz aft pebbly cong/grit, **tc qtz**			with 1 - 10% pebbly conglomerates	36	40	0.01	1.00		
37.0	38.0	dk gnish gy sst, wy ox on fracs			37 - 40m, Dark greenish grey sandstones,						
38.0	39.0	dk gnish gy sst, wy ox on fracs			weakly oxidised on fractures						
39.0	40.0	60% dk gnish gy sst + 35% med bluish gy sst + 5% grit, **1% qtz** (smoky)									
40.0	41.0	lt ol gy + med bluish gy pebbly cong and sst, **1% qtz** (smoky)			40 - 44m, Pebbly conglomerate and medium	40	44	0.01	2		
41.0	42.0	70% qtz apparently aft pebbly cong + 30% pebbly cong/grit + 2 pieces			bluish grey and brownish grey sandstones						
		apple green aft Cr									
42.0	43.0	bnish gy sst/grit + 40% qtz aft pebbly cong, my ox									
43.0	44.0	50% bnish gy sst/grit + 30% med bluish gy sst + 20% qtx aft pebbly									
		cong, my ox									
44.0	45.0	med bluish gy sst > grit w 3% qtz aft pebbly cong, wy ox			44 - 52m, Medium bluish grey sandstones	44	48	<0.01	1		
45.0	46.0	med bluish gy sst and gnish gy grits and pebbly cong			and greenish grey sandstones, grits and						
46.0	47.0	med bluish gy and gnish gy sst and mn grits			pebbly conglomerates						
47.0	48.0	80% gnish gy sst + 20% gnish gy grit, tc ox on fracs									
48.0	49.0	med bluish and gnish gy sst > grit				48	52	<0.01	<1		
49.0	50.0	med bluish gy grits and sst									
50.0	51.0	med bluish gy sst and grit w 20% qtz aft pebbly cong									
51.0	52.0	med bluish gy sst w mn qtz aft pebbly cong, wy ox on fracs									
52.0	53.0	bnish gy grit, my ox			52 - 55m, Brownish grey grits, moderately	52	56	0.01	1.00		
53.0	54.0	bnish gy grit and sst, my ox			oxidised						
54.0	55.0	bnish gy and med bluish gy grit and sst,wy ox									
55.0	56.0	med bluish gy sst wy ox on fracs			55 - 57m, Medium bluish grey and brownish						
56.0	57.0	med bluish gy and bnish gy sst, wy ox on fracs			grey sandstones , weakly oxidised	56	60	0.19	2	0.05	5
57.0	58.0	lt gy grits and pebbly cong			57 - 59m, Light grey grits and pebbly					0.14	1
58.0	59.0	lt gy grits and pebbly conglomerates			conglomerates					0.37	4
59.0	60.0	ol gy grits>sst, **3% qtz** (milky) w **asp** in **PC**			59 - 62m, Olive grey grits and sandstones					4.81	3
60.0	61.0	ol gy sst/grit			with 0 - 3% quartz	60	64	0.1	1	0.08	3
61.0	62.0	ol gy sst/grit, **1% qtz** (milky)								0.2	2
62.0	63.0	ol gy grits > pebbly cong, wy ox - Mn ox			62 - 69m, Olive grey grits and pebbly					0.09	5

Hole BRC47

From	To	Description	Unit	Code	Interpretation	Assays					
						From	To	Au-Cp	As-Cp	Au	As
63.0	64.0	ol gy grits > pebbly cong, wy ox - Mn ox			conglomerates and/or sandstones with					0.17	2
64.0	65.0	ol gy grits > pebbly cong, wy ox - Mn ox			manganese oxides	64	68	0.17	<1	0.21	3
65.0	66.0	ol gy grit > sst + 5% dk gy grit - Mn ox								0.12	3
66.0	67.0	ol gy to med bluish gy grit and pebbly cong, Mn ox								0.18	5
67.0	68.0	50% ol gy grit/pebbly cong + 50% ol gy sst - Mn ox								0.15	4
68.0	69.0	50% ol gy grit/pebbly cong + 50% ol gy sst - Mn ox				68	70.5	0.16	<1	0.13	7
69.0	70.0	ol gy grits and sst			69 - 70.5m, Olive grey to medium bluish grey					0.28	5
70.0	70.5	ol gy to med bluish gy grit > sst, wy ox			grits and sandstones					0.11	<1
					Rods stuck at 70.5m but retrieved						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC48

Date Started : 11 November 1997 (0 to 21m)

Date Completed : 12 November 1997 (21 to 32m)

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 6m)
6 - 49.8m, 4¾" face sampling hammer

Collar

Northing : ~5438655mN
Easting : ~484147mE
R.L. : ~74 m.a.s.l.
Dip : 60°
Bearing : 330° (magnetic)
Depth : 32.0

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Grant MacDonald

Purpose

Test Tas Reef hangingwall/stope fill/footwall for shallow oxide ore

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC48

From	To	Description	Unit	Code	Interpretation	Assays					
						From	To	Au-Cp	As-Cp	Au	As
0.0	1.0	cy overburden			0 - 1m, Clay overburden	0	4	0.01	2		
1.0	2.0	dk ywish org cy (aft lt gnish gy slt), sy ox			1 - 3m, Dark yellowish orange clay, strongly						
2.0	3.0	dk ywish org cy (aft lt gnish gy slt), sy ox			oxidised - after calcareous siltstone?						
3.0	4.0	lt gnish gy slt and cy, wy ox			3 - 12m, Light greenish grey siltstone and						
4.0	5.0	lt gnish gy slt and cy, some laminated, wy ox			clay, after calcareous siltstone?	4	8	<0.01	1		
5.0	6.0	lt gnish gy slt and cy, some laminated, wy ox									
6.0	7.0	lt gnish gy slt and cy, wy ox - poss some contamination									
7.0	8.0	lt gnish gy slt and cy, wy ox									
8.0	9.0	lt gnish gy slt and cy, wy ox				8	12	<0.01	<1		
9.0	10.0	lt gnish gy slt and cy, wy ox									
10.0	11.0	lt gnish gy slt and cy, wy ox									
11.0	12.0	lt gnish gy slt and cy, wy ox									
12.0	13.0	lt ol gy slt, wy ox			12 - 16m, Light olive grey siltstone, weakly	12	16	<0.01	<1		
13.0	14.0	lt ol gy slt, wy ox			oxidised, calcareous?						
14.0	15.0	lt ol gy slt, wy ox									
15.0	16.0	lt ol gy slt, wy ox									
16.0	17.0	med lt gy slt, wy ox			16 - 18m, Medium light grey siltstone, weakly	16	20	<0.01	12		
17.0	18.0	med lt gy slt, wy ox			oxidised, calcareous?						
18.0	19.0	gyish org, my ox med lt gy slt			18 - 21m, Greyish orange, moderately						
19.0	20.0	gyish org, my ox med lt gy slt			oxidised siltstone, calcareous?						
20.0	21.0	gyish org, my ox med lt gy fg sst				20	24	<0.01	13		
21.0	22.0	60% lt ol gy slt + 40% med gy fg sst, wy ox			21 - 24m, Light olive grey and medium light						
22.0	23.0	lt ol gy slt, wy ox			grey siltstone, Medium grey fine grained						
23.0	24.0	60% med lt gy slt + 40% med bluish gy slt to fg sst, wy ox			sandstone, weakly oxidised						
24.0	25.0	med lt gy slt, wy ox on fracs			24 - 28m, Medium light grey siltstone,	24	28	<0.01	17		
25.0	26.0	med lt gy slt, wy ox on fracs			weakly oxidised on fractures, calcareous?						
26.0	27.0	med lt gy slt, wy ox on fracs									
27.0	28.0	med lt gy slt, wy ox on fracs + 3% Mn ox chips			28 - 32m, Light olive grey/green siltstone						
28.0	29.0	lt ol gn slt, my ox w 3% Mn ox chips, no sds in PC			with black manganese oxide 3% - 70%	28	32	0.3	50	0.04	130
29.0	30.0	lt ol gy slt, my ox w 40% Mn ox, **mn asp/py** in PC								0.04	38
30.0	31.0	30% lmc cy coated ol gn slt, my ox w 70% Mn ox, **3% qtz**								0.48	150

Hole BRC48

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
		(smoky), **tc asp** in PC									
31.0	32.0	lt ol gy slt, my ox w 40% cy + 2% Mn ox								0.17	190
					Rods stuck at 32.0 metres but retrieved						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC49

Date Started : 12 November 1997 (0 - 6m)

Date Completed : 13 November 1997 (6 - 47.5m)

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 6m)
6 - 70.5m, 4¾" face sampling hammer

Collar

Northing : ~5438630mN
Easting : ~484140mE
R.L. : ~80 m.a.s.l.
Dip : 60°
Bearing : 330° (magnetic)
Depth : 47.5 metres

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Grant MacDonald

Purpose

Test Tas Reef hangingwall/stope fill/footwall for shallow oxide ore

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC49

From	To	Description	Unit	Code	Interpretation	Assays					
						From	To	Au-Cp	As-Cp	Au	As
0.0	1.0	dk ywish org cy, fill			0 - 1m, Fill	0	4	<0.01	<1		
1.0	2.0	dk ywish org cy aft slt, sy ox			1 - 4m, Light brown (reddish tinge) and						
2.0	3.0	lt bn (reddish tinge) + dk ywish org cy aft lt gy slt, sy ox			dark yellowish orange clay after siltstone,						
3.0	4.0	lt bn (reddish tinge) + dk ywish org cy aft lt gy slt, sy ox			strongly oxidised						
4.0	5.0	lt ol gy cy aft lt ol gy slt, calcareous?, wy ox			4 - 6m, Light olive grey after light olive grey	4	8	<0.01	<1		
5.0	6.0	lt ol gy cy aft lt ol gy slt, calcareous?, wy ox			siltstone, calcareous?, weakly oxidised						
6.0	7.0	lt gy slt w mn red staining wy ox			6 - 18m, Light grey siltstone with red						
7.0	8.0	lt gy slt w mn red staining wy ox			staining, weakly oxidised						
8.0	9.0	lt gy slt w mn red staining wy ox				8	12	<0.01	<1		
9.0	10.0	lt gy slt w mn red staining wy ox									
10.0	11.0	lt gy slt w ox fracs									
11.0	12.0	90% lt gy slt + 10% mod reddish bn, wy ox slt									
12.0	13.0	80% lt gy slt + 20% mod reddish bn, wy ox slt				12	16	<0.01	5		
13.0	14.0	lt gy slt + mn mod reddish bn, wy ox slt									
14.0	15.0	lt gy slt + tc mod reddish bn, wy ox slt									
15.0	16.0	lt gy slt									
16.0	17.0	lt gy slt				16	20	<0.01	6		
17.0	18.0	lt gy slt									
18.0	19.0	lt gy fg sst			18 - 20, Light grey fine grained sandstone						
19.0	20.0	lt gy fg sst									
20.0	21.0	dk ywish org cy aft lt gy slt, my ox			20 - 23m, Dark yellowish orange clay after	20	24	<0.01	64		
21.0	22.0	dk ywish org cy aft lt gy slt, my ox			light grey siltstone, moderately oxidised						
22.0	23.0	dk ywish org cy + lt gy slt, my ox									
23.0	24.0	lt ol gy cy + lt gy slt, wy ox			23 - 25m, Light olive grey clay and light grey						
24.0	25.0	lt ol gy cy + lt gy slt, my ox			siltstone, weakly oxidised	24	28	<0.01	52		
25.0	26.0	dk ywish bn cy + lt gy slt, my ox			25 - 33m, Dark yellowish brown clay and						
26.0	27.0	dk ywish bn cy + lt gy slt, my ox			light grey siltstone, weakly oxidised						
27.0	28.0	dk ywish bn cy + lt gy slt, my ox									
28.0	29.0	dk ywish bn cy + lt gy slt, my ox				28	32	0.01	35		
29.0	30.0	dk ywish bn cy + lt gy slt, my ox									
30.0	31.0	dk ywish bn cy + lt gy slt, my ox									

Hole BRC49

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
31.0	32.0	dk ywish bn cy + lt gy slt, my ox									
32.0	33.0	dk ywish bn cy + lt gy slt, my ox				32	36	<0.01	19		
33.0	34.0	lt gy slt w lt ol gy cy, wy ox			33 - 36m, Light grey siltstone with light						
34.0	35.0	lt gy slt w lt ol gy cy, wy ox			olive grey clay, weakly oxidised						
35.0	36.0	lt gy slt w lt ol gy cy, wy ox									
36.0	37.0	med lt gy slt w lt ol gy cy, wy ox			36 - 41m, Medium light grey siltstone with	36	40	<0.01	3		
37.0	38.0	med lt gy slt w lt ol gy cy, wy ox			light olive grey clay, weakly oxidised						
38.0	39.0	med lt gy slt w lt ol gy cy, wy ox									
39.0	40.0	med lt gy slt w lt ol gy cy, wy ox									
40.0	41.0	med lt gy slt w lt ol gy cy, wy ox				40	44	<0.01	11		
41.0	42.0	lt ol gy slt w lt ol gy cy, wy ox			41 - 44m, Light olive grey siltstone with						
42.0	43.0	lt ol gy slt w lt ol gy cy, wy ox			light grey clay, weakly oxidised						
43.0	44.0	lt ol gy slt w lt ol gy cy, wy ox									
44.0	45.0	ol gy slt w lt ol gy cy, wy ox			44 - 47.5m, Olive grey siltstone with light	44	47.5	0.01	37		
45.0	46.0	ol gy slt w lt ol gy cy, wy ox			olive grey clay, weakly to moderately						
46.0	47.0	ol gy slt w lt ol gy cy, wy/my ox			oxidised						
47.0	47.5	ol gy slt w lt ol gy cy, wy/my ox, **tc asp** in PC									
47.5	48.0	cavity									
					Hole stopped in cavity - rods stuck briefly						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC50

Date Started : 13 November 1997 (0 - 6m)

Date Completed : 14 November 1997 (6 - 41.9m)

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 6m)
6 - 49.8m, 4¾" face sampling hammer

Collar

Northing : ~5438618mN
Easting : ~484122mE
R.L. : ~85 m.a.s.l.
Dip : 60°
Bearing : 330° (magnetic)
Depth : 41.9 metres

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Grant MacDonald

Purpose

Test Tas Reef hangingwall/stope fill/footwall for shallow oxide ore

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC50

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
0.0	1.0	bnmish gy sand, rock frags and plant material			0 - 1m, Fill	0	4	0.01	2		
1.0	2.0	d ywish org cy aft slt, sy ox - in situ			1 - 7m, Dark yellowish orange clay, some						
2.0	3.0	d ywish org cy aft slt w lt ol gy slt, my ox			chips have laminations, calcareous?,						
3.0	4.0	ywish gy cy w lt ol gy slt, some fine laminations, my ox			strongly to moderately oxidised						
4.0	5.0	ywish gy cy w lt ol gy slt, some fine laminations, my ox				4	8	0.03	3		
5.0	6.0	ywish gy cy w lt ol gy slt, some fine laminations, my ox									
6.0	7.0	ywish gy cy w lt gy slt, some fine laminations, my ox									
7.0	8.0	lt ol gy slt, wy ox			7 - 14m, Light olive grey, light grey and						
8.0	9.0	lt ol gy fg sst, wy ox			medium grey siltstone, weakly oxidised	8	12	0.01	3		
9.0	10.0	lt ol gy fg sst, wy ox									
10.0	11.0	lt gy to lt ol gy slt									
11.0	12.0	med lt gy fg sst, tc reddish tinge									
12.0	13.0	50% med lt gy fg sst + 50% lt ol gy (ox) slt/fg sst, wy ox				12	16	0.01	3		
13.0	14.0	lt gy slt, wy ox w reddish tinge									
14.0	15.0	med lt gy slt, finely laminated			14 - 20m, Medium light grey to light olive						
15.0	16.0	med lt gy slt, laminated			grey siltstone with laminations, calcareous?						
16.0	17.0	lt ol gy slt, laminated, reddish tinge				16	20	<0.01	2		
17.0	18.0	lt ol gy slt, laminated									
18.0	19.0	lt ol gy slt, laminated, tc reddish tinge									
19.0	20.0	lt ol gy to med lt gy, laminated									
20.0	21.0	gnish gy slt			20 - 28m, Greenish grey siltstone with	20	24	0.01	<1		
21.0	22.0	gnish gy slt, w gnish gy cy			greenish grey clay						
22.0	23.0	gnish gy slt, w gnish gy cy									
23.0	24.0	gnish gy slt, w gnish gy cy									
24.0	25.0	gnish gy slt, w gnish gy cy, tc reddish tinge on fracs				24	28	0.01	2		
25.0	26.0	gnish gy slt, w gnish gy cy									
26.0	27.0	gnish gy slt, w gnish gy cy									
27.0	28.0	gnish gy slt, w gnish gy cy									
28.0	29.0	med gy slt			28 - 41.9m, Medium grey, medium dark grey,	28	32	0.01	8		
29.0	30.0	80% med gy slt to fg + 20% med dk gy sst			light olive grey and greenish grey siltstones						
30.0	31.0	10% dk gy slt replacing? 70% gnish gy slt w gnish gy cy + 20% ol gy slt			being replaced by darker material i.e.						

Hole BRC50

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
31.0	32.0	10% dk gy slt replacing? 70% gnish gy slt w gnish gy cy + 20% ol gy slt			resulting in dark grey and medium dark grey						
32.0	33.0	10% dk gy slt replacing? 70% gnish gy slt w gnish gy cy + 20% ol gy slt			siltstones. Unoxidised to weakly oxidised.	32	36	<0.01	33		
33.0	34.0	50% med dk gy slt replacing lt ol gy slt, wy ox			**Trace to 2% quartz 39.0 - 41.0m.**						
34.0	35.0	50% med dk gy slt replacing lt ol gy slt, wy ox									
35.0	36.0	10% med dk gy slt +90% gnish gy, dk gnish gy and lt ol gy slt									
36.0	37.0	mn med dk gy slt, rest med gy slt w lt ol gy cy, wy ox				36	40	0.07	27		
37.0	38.0	med gy slt, laminated w mn ox fracs, wy ox									
38.0	39.0	ranges from dk gy slt to med lt gy slt, 30% w ox fracs, wy ox									
39.0	40.0	ranges from dk gy slt to med lt gy slt, 30% w ox fracs, wy ox, **2% qtz**									
		(smoky), **tc py** in slt									
40.0	41.0	50% dk gy slt slt replacing gnish gy to dk gnish gy slt,				40	41.9	<0.01			
		wy ox, **2% qtz** (smoky)									
41.0	41.9	lt ol gy slt aft gnish gy and mn dk gy slt, wy ox							26		
					Rods stuck at 41.9 but retrieved						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC51

Date Started : 17 November 1997

Date Completed : 17 November 1997

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 6m)
6 - 49.8m, 4¾" face sampling hammer

Collar

Northing : ~5438603mN
Easting : ~484107mE
R.L. : ~91 m.a.s.l.
Dip : 60°
Bearing : 330° (magnetic)
Depth : 52.9 metres

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Grant MacDonald

Purpose

Test Tas Reef hangingwall/stope fill/footwall for shallow oxide ore

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC51

From	To	Description	Unit	Code	Interpretation	Assays From	To	Au-Cp	As-Cp	Au	As
0.0	1.0	dk ywish org ox slt, sy ox			0 - 2m, Fill	0	4	<0.01	5		
1.0	2.0	dk ywish org ox slt, sy ox									
2.0	3.0	lt ol and lt bn slt, my ox			2- 9m, Light olive grey (weakly oxidised)						
3.0	4.0	lt ol and lt bn slt, my ox			siltstones, moderately to weakly oxidised						
4.0	5.0	lt ol gy slt w lt bn and dk ywish org ox slt, my ox			after medium grey siltstones	4	8	<0.01	3		
5.0	6.0	40% lt ol gy slt + 40% med gy slt + 20% ywish ox slt, my ox									
6.0	7.0	45% lt ol gy slt + 45% med gy slt + 10% ywish ox slt, my ox									
7.0	8.0	30% lt ol gy slt + 70% med gy slt, wy ox									
8.0	9.0	med gy slt, wy ox on fracs				8	12	0.36	3	0.04	11
9.0	10.0	med gy slt, wy ox on fracs, **tc qtz**			9 - 12m, Light olive grey and medium grey					0.03	7
10.0	11.0	lt ol gy fg sst w ox fracs and 2% bk fol chl(?) sst now bleached, **2% qtz**			sandstones to siltstones with trace to 5%					0.05	10
11.0	12.0	lt ol gy sst, wy/my ox on sfaces, **5% qtz** - milky 5mm stringers w **tc py**			quartz as <5mm stringers with trace pyrite					1.28	13
12.0	13.0	gnish gy sst + 3% lt ol gy fracs, wy ox			12 - 14m, Greenish grey sandstones, weakly	12	16	0.17	3	0.42	15
13.0	14.0	gnish gy sst + mn lt ol gy fracs, wy ox			oxidised					0.08	9
14.0	15.0	lt gy slt w 20% w lt ol gy coatings on sfaces, wy ox			14 - 18m, Light to medium grey siltstones,					0.07	12
15.0	16.0	lt gy slt w 20% w lt ol gy coatings on sfaces, wy ox			weakly oxidised					0.06	14
16.0	17.0	med gy slt w lt ol gy slt, wy ox				16	20	0.08	9		
17.0	18.0	med gy slt w lt ol gy slt, w ox sfaces, wy/my ox									
18.0	19.0	gnish gy fg sst			18 - 44m, Greenish grey fine grained						
19.0	20.0	gnish gy fg sst			sandstones and lesser siltstones and						
20.0	21.0	gnish gy fg sst			sandstones, variably unoxidised to weakly	20	24	0.04	5		
21.0	22.0	gnish gy fg sst			oxidised (giving a brownish grey colour).						
22.0	23.0	gnish gy fg sst									
23.0	24.0	gnish gy fg sst w 30% bnish gy fg sst									
24.0	25.0	gnish gy fg sst w 30% bnish gy fg sst				24	28	0.03	4		
25.0	26.0	gnish gy fg sst w mn bnish gy fg sst									
26.0	27.0	gnish gy fg sst w 20% bnish gy fg sst									
27.0	28.0	gnish gy slt w 5% bnish gy slt and 5% dk gy slt									
28.0	29.0	gnish gy fg sst w mn bnish gy fg sst				28	32	0.04	2		
29.0	30.0	gnish gy fg sst w mn bnish gy fg sst									
30.0	31.0	gnish gy fg sst w mn bnish gy fg sst									

Hole BRC51

From	To		Unit	Code	Interpretation	Assays					
						From	To	Au-Cp		Au	As
31.0	32.0	gnish gy fg sst w mn bnish gy fg sst									
32.0	33.0	gnish gy fg sst, **tc qtz**				32	36	0.07	3		
33.0	34.0	gnish gy fg sst, some									
34.0	35.0	gnish gy fg sst									
35.0	36.0	gnish gy slt									
36.0	37.0	gnish gy fg sst				36	40	0.07	7		
37.0	38.0	gnish gy fg sst									
38.0	39.0	gnish gy sst w 10% dk gy sst									
39.0	40.0	gnish gy sst w 5% ox									
40.0	41.0	gnish gy slt w tc ox on fracs				40	44	0.09	4		
41.0	42.0	med gy slt w tc ox fracs									
42.0	43.0	gnish gy sst w tc chlorite									
43.0	44.0	gnish gy fg sst w 5% chlorite									
44.0	45.0	gnish gy fg sst w 3% chlorite, tc ox fracs, **3% qtz** (milky)			44 - 50m, Greenish grey (44 - 46m) and	44	48	0.07	11		
45.0	46.0	gnish gy fg sst w 3% chlorite, tc ox fracs, **3% qtz** (smoky)			medium light grey sandstones with trace to						
46.0	47.0	med lt gy fg sst, tc ox fracs, **3% qtz** (smoky)			5% quartz as stringers less than 5mm as well						
47.0	48.0	med lt gy fg sst, tc ox fracs, **5% qtz** (smoky)			as some silicification. No sulphides.						
48.0	49.0	med lt gy fg sst, tc ox fracs, **3% qtz** (smoky)			Weakly oxidised. Some chlorite	48	52	0.06	4		
49.0	50.0	med lt gy fg sst, tc ox fracs, **tc qtz** (smoky)									
50.0	51.0	med lt gy fg sst w 5% chlorite			50 - 52m, Medium light grey sandstones						
51.0	52.0	med lt gy sst w 10% w lt bnish gy ox sfaces									
52.0	52.9	med lt gy sst w 20% w lt bnish gy ox sfaces, **5% qtz** (smoky) to 10mm			52 - 52.9m, Medium light grey sandstones	52	52.9	0.18	4.00		
		w **mn py>asp** in qtz also in PC			with 5% sulphidic smoky quartz in <10mm						
					stringers						
					Rods stuck at 52.9 metres but retrieved						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC52

Date Started	:	18 November 1997	**Hole Details**	:	0 - 6m, 8½" open hole hammer (PVC to 6m)
					6 - 70.5m, 4¾" face sampling hammer
Date Completed	:	18 November 1997			

Collar

			Drilled by	:	Stacpoole's Fox B40L
			Drillers	:	Terry Lodge/Wayne Bald
Northing	:	~5438658mN			
Easting	:	~484178mE	**Logged by**	:	Grant MacDonald
R.L.	:	~71m.a.s.l.			
Dip	:	60°			
Bearing	:	330° (magnetic)			
Depth	:	41.2 metres			

Purpose

Test Tas Reef hangingwall/stope fill/footwall for shallow oxide ore

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC52

From	To	Description	Unit	Code	Interpretation	Assays					
						From	To	Au-Cp	As-Cp	Au	As
0.0	1.0	dk ywish bn cy, sy ox			0 - 1m, Fill	0	4	<0.01	1		
1.0	2.0	dk ywish bn cy, sy ox			1 - 3m, Dark yellowish brown clay, strongly						
2.0	3.0	dk ywish bn cy, sy ox			oxidised						
3.0	4.0	dk ywish bn cy aft lt ol gy slt, sy ox			3 - 6m, Dark yellowish and light olive grey						
4.0	5.0	lt ol gy slt, cy rich w some reddish tinge, sy ox			siltstones, clay rich, strongly oxidised.	4	8	<0.01	7		
5.0	6.0	lt ol gy slt, cy rich w some reddish tinge, sy ox									
6.0	7.0	dk ywish bn w 10% reddish, sy ox, **1% qtz** (smoky)			6 - 9m, Dark yellowish brown and light olive						
7.0	8.0	lt ol gy clayey slt, my ox, **40% qtz** (smoky) but cy rich so qtz			grey clayey siltstone with **1 - 40%**						
		level overstated			smoky **quartz**						
8.0	9.0	lt ol gy clayey slt, my ox, **2% qtz** (smoky)				8	12	<0.01	4		
9.0	10.0	p ywish bn to lt ol gy slt, sy ox			9 - 40m, Greenish grey, light grey and						
10.0	11.0	p ywish bn to lt gy slt, my ox			medium light grey siltstones (oxidising to						
11.0	12.0	lt gy slt, wy ox			light olive grey, greyish orange and pale						
12.0	13.0	p ywish bn slt, my ox, tc **qtz** (smoky)			yellowish brown). Clayey/greasy zones	12	16	<0.01	3		
13.0	14.0	p ywish bn slt, wy ox			possibly calcareous. No veining.						
14.0	15.0	lt gy slt, wy ox									
15.0	16.0	lt gy slt, wy ox w cy									
16.0	17.0	lt gy slt, wy ox w cy				16	20	<0.01	1		
17.0	18.0	lt gy to lt ol gy slt, my ox w cy									
18.0	19.0	lt gy slt, my ox w cy									
19.0	20.0	lt gy slt, my ox w cy									
20.0	21.0	lt gy slt and gyish org my ox slt				20	24	<0.01	<1		
21.0	22.0	lt gy slt and gyish org wy ox slt									
22.0	23.0	gnish gy slt - greasy, wy ox									
23.0	24.0	gnish gy slt - greasy, wy ox									
24.0	25.0	gnish gy slt, wy ox				24	28	<0.01	5		
25.0	26.0	gnish gy slt, wy ox									
26.0	27.0	gnish gy and lt ol gy slt, wy ox									
27.0	28.0	lt ol gy slt, wy ox									
28.0	29.0	lt ol gy slt, wy ox				28	32	<0.01	2		
29.0	30.0	90% lt ol gy slt, my ox+ 10% med lt gy slt									

Hole BRC52

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
30.0	31.0	lt ol gy slt, my ox + 30% gnish gy slt									
31.0	32.0	med lt gy slt, greasy, wy ox									
32.0	33.0	gnish gy and lt gy slt, wy ox				32	36	<0.01	<1		
33.0	34.0	gnish gy slt, wy ox									
34.0	35.0	gnish gy slt, wy ox									
35.0	36.0	gnish gy and lt gy slt, my ox									
36.0	37.0	med lt gy slt, my ox				36	40	<0.01	49		
37.0	38.0	med lt gy to ol gy slt, wy ox									
38.0	39.0	med lt gy slt, wy ox									
39.0	40.0	med lt gy slt, wy ox									
40.0	41.0	med dk gy slt, wy ox			40 - 41.2m, Medium dark grey siltstone as	40	41.2	<0.01	200		
41.0	41.2	my ox med dk gy sltslt			typically seen adjacent to the Tas reef						

E61725

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC53

Date Started : 19 November 1997 (0 - 6 metres)

Date Completed : 19 November 1997 (6 - 54 metres)

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 6m)
6 - 70.5m, 4¾" face sampling hammer

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Grant MacDonald

Collar

Northing : ~5438805mN
Easting : ~484190mE
R.L. : ~54 m.a.s.l.
Dip : 60°
Bearing : ~327° (magnetic) - taken by compass over open hole
Depth : 54 metres

Purpose

Follow up anomalous high grade intersection in RB89

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole BRC53

From	To	Description	Unit	Code	Interpretation	Assays From	Assays To	Au-Cp	As-Cp	Au	As
0.0	1.0	dk ywish org sst, slt and grit, sy ox, 3% qtz			0 - 6m, Collared in rock but inhomogeneity	0	4	0.61	173	5.21	25
1.0	2.0	dk ywish org sst, slt and grit, sy ox, 2% qtz			and presence of grit suggests					0.17	335
2.0	3.0	dk ywish org sst/slt some w reddish tinge, sy ox, tc qtz			contamination at least					0.46	262
3.0	4.0	dk ywish org sst, slt and grit, sy ox, 1% qtz								0.59	219
4.0	5.0	gyish org sst and mn grit, sy ox, 2% qtz				4	8	0.81	289	16.0	262
5.0	6.0	gyish org sst and mn grit, sy ox, 1% qtz								1.25	381
6.0	7.0	gyish org sst w much cy and mn grit, sy ox			6 - 18m, Predominantly clays with only a few					0.42	290
7.0	8.0	few chips of p gyish org cy aft slt, tc grit, sy ox			chips, probably after calcareous siltstones					0.07	151
8.0	9.0	few chips of p gyish org cy aft slt, tc grit, sy ox				8	12	0.03	250		
9.0	10.0	no chips w p gyish org cy washes to off white cy, sy ox									
10.0	11.0	no chips w p gyish org cy washes to off white cy, sy ox									
11.0	12.0	few chips gyish org slt, sy ox									
12.0	13.0	few chips gyish org slt, sy ox				12	16	<0.01	57		
13.0	14.0	few chips, dk ywish org cy and ywish org slt, sy ox									
14.0	15.0	few chips, dk ywish org cy and ywish org slt, sy ox									
15.0	16.0	dk ywish org and off white cy, few chips, sy ox									
16.0	17.0	dk ywish org cy aft dk ywish org slt, sy ox				16	20	<0.01	28		
17.0	18.0	dk ywish org cy aft dk ywish org slt, my ox									
18.0	19.0	more chips, dk ywish org slt, my ox			18 - 25m, Harder with angular chips of						
19.0	20.0	more chips, dk ywish org slt, my ox			moderately to strongly oxidised siltstones						
20.0	21.0	dk ywish org slt, my ox				20	24	<0.01	502		
21.0	22.0	dk ywish org>ol gy slt, my ox									
22.0	23.0	dk ywish org>>ol gy slt, my ox									
23.0	24.0	ol gy slt>dk ywish org slt, my ox									
24.0	25.0	ol gy slt>dk ywish org slt, my ox				24	28	<0.01	22		
25.0	26.0	lt ol gy slt, few chips, my ox			25 - 38m, Moderately oxidised siltstones,						
26.0	27.0	gyish org slt, my ox			some intervals with only a few chips, i.e.						
27.0	28.0	dk ywish org slt, my ox			possibly calcareous						
28.0	29.0	lt ol gy and ywish org slt, my ox				28	32	<0.01	30		
29.0	30.0	dk ywish org slt/fg sst, my ox									
30.0	31.0	dk ywish org slt, my ox									

Hole BRC53

From	To	Description	Unit	Code	Interpretation	Assays					
						From	To	Au-Cp	As-Cp	Au	As
31.0	32.0	dk ywish to lt ol gy sst, my ox									
32.0	33.0	dk ywish to lt ol gy sst, my ox				32	36	<0.01	4		
33.0	34.0	dk ywish org slt, my ox									
34.0	35.0	ol gy to dk ywish org slt, my ox									
35.0	36.0	ol gy to dk ywish org slt, my ox									
36.0	37.0	few chips, ol gy cy aft ol gy slt, my ox			*damp samples 36- 51m*	36	40	<0.01	3		
37.0	38.0	few chips, dk ol gy cy, p ywish gy cy and dk ol gy slt, my ox									
38.0	39.0	dk ol gy cy and med dk gy fg sst, my ox			38 - 44m, Medium dark grey fine grained						
39.0	40.0	dk ol gy cy and med dk gy fg sst, my ox			sandstone, moderately oxidised with dark						
40.0	41.0	dk ol gy cy and med dk gy fg sst, my ox			olive grey clay	40	44	<0.01	37		
41.0	42.0	dk ol gy cy and med dk gy fg sst, my ox									
42.0	43.0	dk ol gy cy and med dk gy fg sst, my ox									
43.0	44.0	dk ol gy cy and med dk gy slt, my ox									
44.0	45.0	dk ol gy cy but now med and med lt gy slt, wy ox			44 - 48m, Medium grey and medium light	44	48	<0.01	9		
45.0	46.0	med gy slt, wy ox			grey siltstone, weakly oxidised,						
46.0	47.0	med gy slt, wy ox, **tc py** in PC			**trace pyrite** from 46 - 48m						
47.0	48.0	med gy slt and ol gy cy and tc sst, wy ox, **tc py** in PC									
48.0	49.0	med dk gy slt,			48 - 50m, Medium dark grey and medium	48	52	<0.01	26		
49.0	50.0	med dk gy and med lt gy slt			grey siltstone						
50.0	51.0	med gy slt - some contam from cyclone, **mod py** in PC			50 - 54m, Dark greenish grey and medium						
51.0	52.0	dk gnish gy slt w py on fracs and dsd, **high py** in PC			grey siltstone with **significant pyrite**						
52.0	53.0	dk gnish gy slt w py on fracs and dsd, **mod py** in PC			(~2%?) on fractures and in disseminations	52	53	<0.01	21		
53.0	54.0	dk gnish gy slt w (less) py on fracs and dsd, **mn py** in PC									
					Recirculation dropping from ~48m						
					Possibly due to clay accumulating at ~48m						
					Stopped hole at 54m to pull back and clear						
					hole but rods caught at ~45m, eventually						
					retrieved						

BEACONSFIELD MINE JOINT VENTURE

Reverse Circulation Drilling Log

Hole No. : BRC54

Date Started : 21 October 1997

Date Completed : 21 October 1997

Hole Details : 0 - 6m, 8½" open hole hammer (PVC to 6m)
6 - 70.5m, 4¾" face sampling hammer

Collar

Northing : 5438734.23
Easting : 484217.39
R.L. : 55.93
Dip : -59°
Bearing : ~330° (magnetic) - taken by compass over open hole
Depth : 45

Drilled by : Stacpoole's Fox B40L
Drillers : Terry Lodge/Wayne Bald

Logged by : Gerald Purvis

Purpose

RC Drilling of the Florence Nightingale Trend

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S

8½" hammer to 6m   6m of 150mm PVC in hole, c cap.
then 4¾" ham...

BRC54 -59° to 319° MAG

Beaconsfield Mine Joint Venture

R C Drill Log

Hole No. **Depth:** **Date:** 21·10·97 10am **Drill type:** B40L MOBILE **Driller:** TERRY LODGE, STACPOOLE'S **Page of**

	From	To	Description	Wen.	Fn.	Vng type/%	Mzn.	Interpretation:	Unit/Code
5	0	1	Yellow-brown. Strongly ox qtz sst - some strongly lateritised.		[illegible]	Qtz 10%		Disturbed ground - fill.	
10	1	2	Brown. Strongly ox med-coarse qtz Sst > Qtzose siltst, some charcoal.			Qtz 20%		Disturbed fill or scree.	
10	2	3	Tawny-brown, strong ox ferruginous Sst, ox Qtzose Silt, poss lit (unox) unox siltst + charcoal			Qtz 2%		Fill.	
10	3	4	" " " " ", ox Siltst, fresh Siltst + charcoal			Qtz 5%		Fill	
30	4	5	Yellow-brown. Ferruginous red clay. ox ferruginous Sst, ox Siltst, fresh Siltst			Qtz 10%		Poss original surface - lateritised profile	
10	5	6	Brown. Ferruginous ox Sst - Siltst. Ferruginous clay. some less ox frags			Qtz 5%		Highly ox Sst/Silt + clay - Chain?	
15	6	7	Yellow-brown. Highly ox clayey rock (lst?), ox Siltst, sst. Some unox grey qtz siltst			Qtz 2%		Fill? or contin? (Some fresh rock)	
12	7	8	Bright yellow mixture - highly ox + unox qtz Siltst + Sst. Some FeOx.			Qtz 30%	Ditto	Ox Sst/Silt ~~[illegible]~~ Minor contam?	OUT/fill?
15	8	9	" " Few frags, Mostly unox qtz Sst > Siltst. Some ox ditto			Qtz 50% (<5% [illegible])		" " " "	OUT/fill?
15	9	10	Pale fawn. No frags - creamy-white clay			–		Ox limestone?	" " ?
15	10	11	" " . Tiny frags (few) " " + creamy-white qtz siltst			–		Ox limestone? c Silt bands	" " ?
11.5	11	12	Pale yellow, few tiny frags. Creamy-white qtz Siltst > Sst (fine)			–		Ox banded Siltst + poss limestone	" " ?
11.5	12	13	" " . Hard pale whitish-yellow qtz Siltst (banded)			Qtz 1%		Sl ox banded Siltst.	" "
11.5	13	14	" " Hard " " grey-brown Qtzose Sst (v fine) - Siltst			–		" " " Sst + Siltst	" "
11.5	14	15	" " Hard qtzose Siltst as above. banded pale grey-brown			–		Sl ox " Siltst	" "
11.5	15	16	Pale fawny-yellow As above. hard qtzose Siltst, ox dec			–		" " " "	" "
11.5	16	17	" " " Ditto Pale grey qtzose Siltst ox dec.			–		" " " "	" "
11.5	17	18	Pale fawn. Ditto - pale whitish-grey qtzose Siltst. Sl ox			–		" " "	" "
20	18	19	Creamy-yellow Ditto Some fine Sst			–		Mod ox " " to Sst	" "
20	19	20	Pale yellow. Ditto Siltst > fine Sst. Hard. ~~[illegible]~~ Sl more ox (on fracts)			–		Mod ox " " "	" "
20	20	21	Yellow, Ditto - sl more ox (weak-mod) Siltst - Sst.			–		~~[illegible]~~ mod ox Siltst/Sst	" "
15	21	22	Yellow. Ditto Hard pale grey Siltst/Sst c weak ox (incl lim) on fracts			–	Trace dissem py	~~Mod~~ ox Siltst/Sst c trace py	" "
15	22	23	Pale yellow-brown Ditto. Rock itself is unox - only on fracts (some lim)			–	" " "	~~[illegible]~~ ox " " " "	" "
15	23	24	Yellow-brown (pale). Ditto			10% White Qtz	" " "	Mod ox " " c qtz veins	" "
15	24	25	Yellow-brown. Ditto. Hard sl ox Siltst/Sst c trace py + lim on fracts.			2% qtz	" " "	Mod ox Siltst/Sst.	" "
15	25	26	" " Ditto More ox + sandy - fine Sst, lim on fracts			–	–	Mod-strongly ox qtzose Sst (fine)	" "
15	26	27	" " Ditto Hard.			–	–	" " " " " (fine)	" "
15	27	28	Dark yellow. Ditto. Mod ox hard qtzose Siltst/Sst lim on fracts.			–	–	" " ox qtzose Silt/Sst	" "
15	28	29	Y dk yellow-brown, Hard mod ox qtzose siltst/Sst c much lim + MnOx on fracts			–	–	" " " " c lim facts	" "
15	29	30	" " " " Hard ditto. More lim fracts + frags of lim to 5mm.			1% lim qtz	–	Strongly ox Siltst/Sst c strongly lim fract	" "
15	30	31	" " " Ditto			5% lim qtz	–	" " " " + qtz veins	" "
15	31	32	Bright brown. Highly limonitic, ox Silt/Sst			–	–	" " " Abund lim facts + stains	" "
15	32	33	Dk brown. REEF. Highly limonitic or pyritic vein Qtz. Minor limonitic wall rock			90% py/lim Qtz	✓	REEF. Pyritic Qtz.	

↓ Definite bedrock

H 53m. D 3pm.

Beaconsfield Mine Joint Venture
R C Drill Log BRC 54

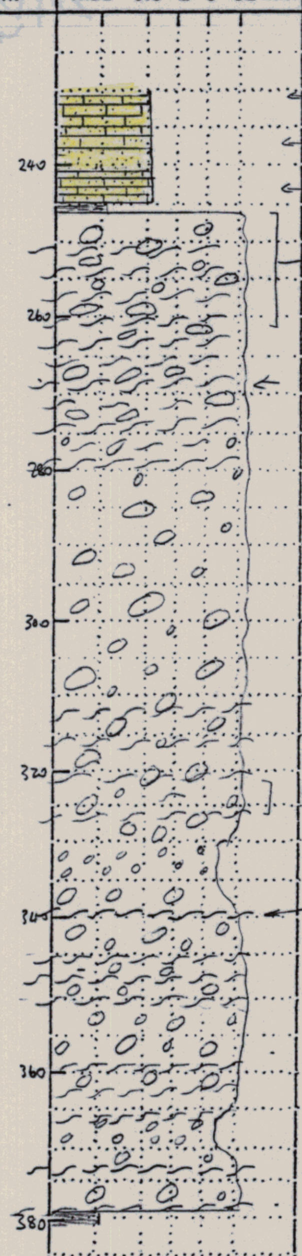
carbonaceous + pyrite

From	To	Description + consp. lim on fracts. Marked dec in ox	Wen.	Fn.	Vng type/%	Mzn.	Interpretation:	Unit/Code
33	34	Grey-brown. Hard fine qtzose Sst c minor carbonaceous content, dissem py			1 piece qtz	Minor dissem py	~~Mod~~ Hard qtzose Sst c lim fractures.	UUT/SH
15 34	35	Dk yellow brown. Ditto except more limonitic + ox.			" "	" "	Mod ox " " " "	"
15 35	36	Brown-grey. Ditto 33-34m. Dark but not carbonaceous			" "	" "	" " " "	"
15 36	37	Khaki. Hard dk grey qtzose Sst c lim on fracts + trace dissem py				Trace dissem py	weakly ox Sst c lim facts	" "
15 37	38	Dk grey. Hard dk grey Qtz Sst c trace lim facts + dissem py			1 piece qtz	Minor dissem py	Unox fine qtzose Sst c dissem py	" "
5 38	39	Khaki-grey. Hard dk grey-black carbonaceous qtzose Sst c py.			—	Minor " "	" hard pyritic carbonaceous Sst. Minor lim facts	" "
15 39	40	Dk khaki-grey. Hard. As above c some light grey Sst also			1 piece qtz	Trace " "	Ditto	" "
15 40	41	" " " . Hard grey Sst.			1% qtz	No py.	Hard grey qtzose Sst.	" "
15 41	42	Dk grey. Grey hard qtzose Sst > Slt c minor dissem py			—	Minor py	Hard grey qtzose Sst > Slt.	" "
5 42	43	" " " Ditto - no py.			1 piece qtz	—	Ditto - no py	" "
15 43	44	Dk grey-black. Hard hard qtz Sst c minor dissem py + trace carbonaceous material			—	Minor py	Qtz Sst c py + carbonaceous material	" "
15 44	45	Dk grey. Hard dk grey qtz Sst. Trace carbonaceous material			—	—	Q Sst as above - no py seen	" "
15 45	46	~~Grey~~ Dk grey. Hard dk grey qtzose Sst c minor carbonaceous material			1 piece qtz.	Rare py.	" " " Rare py.	" "
15 46	47	Dk grey-black - Hard black carbonaceous qtzose Sst			—	—	Q Sst - carbonaceous No py seen	" "
15 47	48	" " " " Ditto. Rare py. Graphitic facings + qtz-graph veinlets			1% qtz + graph	Rare py	Q Sst - carbonaceous c minor qtz veinlets.	" "
15 48	49	" " " . Ditto - partly-carbonaceous Qtzose Sst.			1 piece qtz	" "	" " Rare py.	" "
15 49	50	" " " . Black carbonaceous qtzose Sst c minor py			1 piece qtz + graph	Minor py - dissem	Ditto, minor py. (More carbonaceous)	" "
15 50	51	. Grey " " " " " " . qtz veinlets			5% qtz.	" " "	Ditto c qtz veinlets Carbon.	" "
15 51	52	DK grey. Dk grey qtzose Sst. Rare py + trace carbonaceous material			—	Rare py.	Ditto - no qtz, rare py, carbonaceous.	"
52	53	Dk grey-black. Grey to dk grey qtzose Sst c py + veinlets carbonaceous material			—	1% dissem py.	Ditto no qtz, 1% py. ~~Trace~~ carbonaceous ~~material~~	" "
53	54	EOH @ 53m - in fault? Sst (graphitic clayey fault?) @ 52.5-53m.						
54	55							
55	56							
56	57							
57	58							
58	59							
59	60							
60	61							
61	62							
62	63							
63	64							
64	65							
65	66							
66	67							

Rosa. Fl Ex

GRAPHIC CORE LOG	Hole No. B30	Depth m
Scale 1: 1000	Project	
By	Section	
Date	Collar co-ords E N RL	
Page of	Az. °G °M Incl. °	

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast φ & Structure	Description



fr 15° ca

fr 35° ca

fr 30° ca

fragments boudinaged qtz ± calc vng

~268-269 fr 11 ca

friable z

discrete gougy z. 10cm ll to fr c̄ sub vert movement ie part of reverse flting

← oppl gr staining in last 0.5 –

<u>Blythe Creek Formation</u> (?)

– 245.2 Variably <u>calcareous sediments</u> c̄ alternated lenses of white lst between dk grsh gy silty bands, tan brn calcareous slt ± later but deformed calc vn. ~~237~~-241 is dk grsh gy slt. Localised small scale folds below 243.2. [see over]

245.2 – 246.0 sy foliated calcareous <u>black shale</u> c̄ banding of calcite fine beds (< 2mm). Contact between shale ± overlying BCF is conf but grad over 20mm. Contact with underlying polymict cong is sharp @ 40° ca

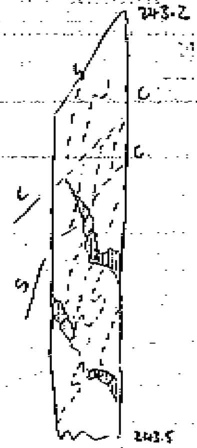
246.0 – 378.8 Polymict conglomerate. Rounded clasts of "gabbro, dolerite, basalt, andesite, qtz wacke, carbonates, qtzite, qtz mica schist, cherts ± carbonate altered ultramafics (mostly altered to talc, chlorite carbonate etc) diagenetic c̄ Ca + Mg rich fluids in a talc, sericite, smectite?, chlorite, qtz, dolomite ± plag. Clasts are almost to clast "supported as the cong is gly only moderately supported. The cong is v sy foliated leading to one interp that it is a fault bx – this is not the case.

The upper part of the unit, as well as two smaller lower zones, is very friable suggesting a focussing of shearing. Some friability is also a product of the core becoming wet.

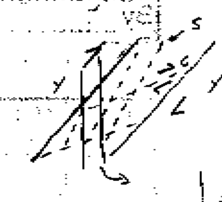
378.8 – <u>Shale</u> wy calcareous but sy carbonaceous bk sy foliated shale c̄ SC textures gly visible. Ocl Boudinaged cb vng. Contact shp ≈ 45° ca

Shale becomes less ~~carbonaceous~~ deformed blw ~ 386m (looks v sim BCF shaley slt

S27171A



The deformation is represented by an SC fabric indicating dextral (reverse) movement. C (shear) planes are less common than S (foliation) planes in the limy silt at the base of the Blyths Ck Fm. The underlying black shale seems to have more C than S.



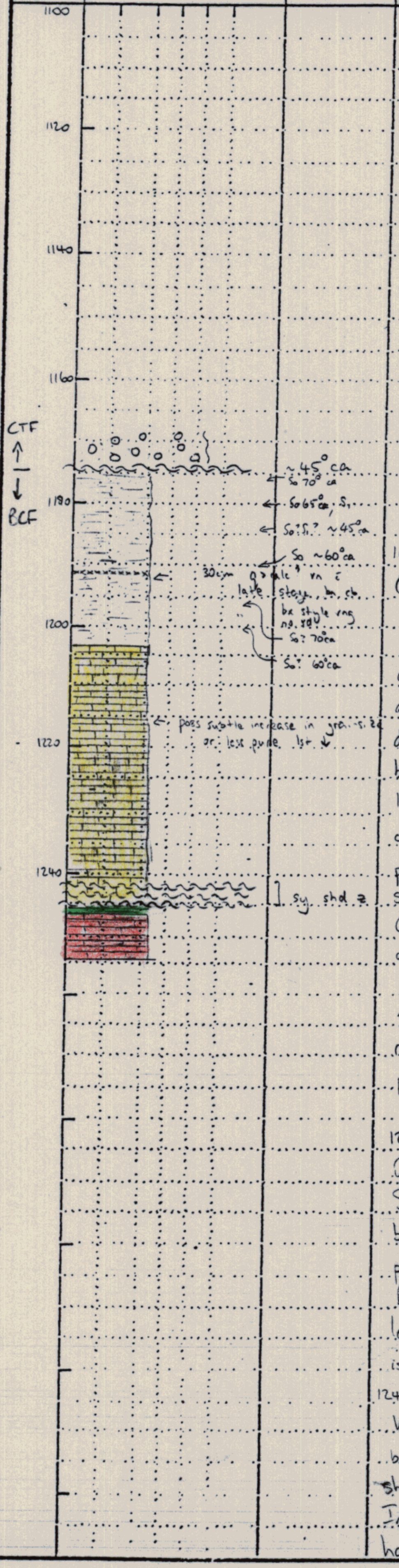
527172

1174.3

DP6474

GRAPHIC CORE LOG	Hole No. B32	Depth m
Scale 1: 1000	Project	
By	Section	
Date	Collar co-ords E N RL	
Page of	Az. °G °M Incl. °	

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast φ & Structure	Description



– 1174.3 Qtz pebble conglomerate (Cabbage Tree Cong) moderately silicified & pyritised. This unit was refested c wedge B32A. The lower contact is ~~x~~ sheared but there does not seem to be any sig movement ie originally conformable

1174.3 – 1203.0 Siltstone (Blyth Ck Fm)
Gnish gy to 1191.3 (c 30cm^m q calc vn 1191.3 – 1191.6) then med gy blw 1191.6. Weakly bedded above 1191.3, wk/mod bedded blw 1191.6 c bedding diffuse but 10's of mm's. Rock is quite fissile on this bedding c some breaks having lineations due to movement. Bedding partly defined by bands of p org bn due to (non fiz) cb – Sim to later stage org bn cb rng though the diffuse bedded cb is poss primary. Dsd py to ~1177.5 ~1% t/o is part of py z in overlying cong. Bedding angles shown – neg folding except for [fold sketch] @ 1200.7
Cleavage is hard to pick in the lower z but above 1191.3 is gly visible. It is ~30° ca ie dips more steeply than So & appears to be rotated ~5°–10° clockwise ie indicating that these rocks are on the ~~east~~ limb of shallow north plunging anticline

1203.0 – 1241.5 Limestone (Blyth Ck Fm)
Off white impure silty/shaley lst c silty stylolites. Stylolitic down to ~1215.5 c stylolites defining bedding @ ~70° ca. Not fossiliferous. Mn dsd py. Late stage overprinting calc vn's irreg & bxd. Blw ~1215.5 lst more sandy & either slightly less pure or slightly coarser grained. Lower contact is sheared.

1241.5 – 1244.1 Shear / impure Limestone (BCF)
V sheared in v broken core which has got wet but is med dk gy c org milled frags graphitic shaley slt & lst in med dk gy mx. Fizzes. Interp as less pure lst ie more shaley which has focussed defm.

527173

GRAPHIC CORE LOG	Hole No. Depth m
Scale 1:	Project
By	Section
Date	Collar co-ords E N RL
Page of	Az. °G °M Incl. °

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast φ & Structure	Description
			1244·1 – 1245·7 Serpentine / Dolomite / Limestone.
			Sheared zone c̄ interbedded cherty limestone 1244·1 – 1244·3
			sim. as 1st (bar sid?) followed by
			puggy serpentinite in bc 1244·3 – 1244·7. Then
			1244·7 – 1245·7 pinky red dolomite (see
			descriptions blw) – All sy foliated
			~80°ca. Serp + dolo are transitional c̄ serp on
			dolo frags + dolo on serp frags
			1245·7 – 1246·7 Serpentinite (BCF)
			Epidote green serpentine, sy fol ~ 70-80°ca
			c̄ dsd mt + overprinting fn conformable
			calcite veins. There are pinky red patches
			of dolomite on ~~frac~~ clv sfaces.
			1246·7 – 1254·5 Dolomite (BCF)
			Pinky orange dolomite (?) c̄ overprinting
			calcite vng c̄ blebs hmt? (not magnetite)
			Zone of more serpentinite rich material from
			~1246 – 1246.3

1245·7 – 1246·7

APPENDIX 2

ROCK SAMPLE LEDGER

Number	DDH	From	To	Description
213482	B32	1024.1	1024.6	med dk gy sst w mn q pebbles
213483	B32	1041.9	1042.6	clast rich (clast support) cong w 10% dk gy clasts
213484	B32	1064.5	1065.2	clast rich (clast support) cong w 10% dg gy clasts
213485	B32	1080.3	1081	med bn to med dk gy sst
213486	B32	1125.2	1126	clast rich cong <5% dk gy clasts
213487	B32	1140.8	1141.5	clast rich cong <5% dk gy clasts w mn py
213488	B23	558.6	559.4	magc dk gnish gy wy calcareous slt, fossiliferous
213489	B23	607.5	608.3	gnish gy my calcareous slt, msv
213490	B32	1170.5	1171.2	clast rich q pebble cong w dsd py in mx, clasts to 30mm
213491	B32	1159.5	1160.3	calst rich q pebble cong w dsd py in mx, clasts to 30mm
213492	B23	220.3	221.0	lt gy lst w v dk gy shaley/slt mx
213493	B23	273.7	274.3	lt gy lst w v dk gy shaley/slt mx
213494	B23	348.7	349.3	lt gy lst w v dk gy shaley/slt mx
213495	B32	923.5	924.4	dk gnish gy sst my calcareous
213496	B32	929.7	930.5	dk gnish gy sst my calcareous
213497	B32	946.8	947.5	dk gnish gy sst my calcareous
213498	B32	959.4	960.5	dk gnish gy sst my calcareous
213499	B32	978.6	979.3	dk gnish gy sst my calcareous
213500	B32	987.5	988.2	clast supported q pebble cong w cb in mx w 10% dk shale clasts
213501	B32	1003.6	1004.6	80% q pebble cong to 10mm w 20% dk gy sst
213502	B32	1008.5	1009.1	80% dk gy sst w 20% pebbly cong, clasts to 10mm
213503	B23	632.5	633.2	msv gnish gy sst non calcareous
213504	B23	660.4	661.3	dk gnish gy calcareous sst, rhythmically bedded w more & less cb (~70% total cb)
213505	B23	651.4	652.3	dk gnish gy calcareous sst, rhythmically bedded w more & less cb (~70% total cb)
213506	B32	791.5	792.5	org bn wed sface (due to cb) but fresh is lt gnish gy cak slt
213507	B32	840.5	841.5	mod to gnish gy calcareous slt
213508	B32	891.9	892.7	gnish gy calcareous slt
213509	B26	641.7	647.3	msv gnish gy sst wy calcareous typical of z
213510	B26	650.7	651.6	msv gnish gy sst wy calcareous typical of z
213511	B26	679.3	680.2	dk gy msv sst
213512	B26	691.7	692.8	clast rich dk gy pebbly cong w clasts to 30mm, inc 10% dk shale, & mod dk gy slt
213513	B26	701.8	702.8	clast rich dk gy pebbly cong w clasts to 20mm, inc 10% dk shale, & mod dk gy slt
213514	B26	715.4	716.5	v dk gy fg sst, msv, ocl gritty bands
213515	B26	725.3	726.3	v dk gy sst w ocl more gritty z
213516	B26	739.3	740.3	dk gnish gy sst
213517	B26	748.2	748.7	evenly graded cong v dk gy clasts 85% qtzose to 15mm, 15% bk shale clasts
213518	B26	761.0	762.0	evenly graded cong v dk gy clasts 85% qtzose to 15mm, 15% bk shale clasts
213519	B26	792.5	793.0	v dk gy w 60% pebbly cong bands, 40% sst w ocl q pebbles
213520	B26	815.6	816.6	more diffusely bedded v dk gy q pebble cong w z of grits & sst

213521	B26	838.3	839.3	q pebble rich cong w dominantly qtzose clasts to 20mm
213522	B26	858.0	859.0	q pebble rich cong msv clast support w qtzose clasts to 20mm
213523	B26	863.3	864.2	d gnish gy pyritic (1% t/o as dsn) shaley slt
213524	B26	874.6	875.5	med dk gy shaley slt - not obv calc
213525	B23	194.4	195.0	v dk gy shale non calc
213526	B23	185.6	186.4	v dk gy shale non calc
213527	B23	161.9	162.4	v dk gy shale non calc
213528	B23	120.8	121.3	v dk gy shale non calc
213529	B23	128.1	128.5	v dk gy shale non calc
213530	B32	1181.0	1181.9	gnish gy slt, non calc, wy bedded
213531	B32	1195.5	1196.4	med gy finely laminated shaley slt
213532	B32	1207.6	1208.5	off white lst w lt apple gn slt in stylolitic bands
213533	B32	1224.4	1225.3	med gy wy calc slt w lt apple gn colour in part (serp?)
213534	B32	1251.5	1252.4	pinky/red dolomite (?) w fine calc vnt
213535	B32	1246.0	1246.5	sepentinite w magnetite in fine calc vnts
213536	B32	621.7	622.8	gnish gy calc slt w elongate nodular bands of p gy lst typical of z
213537	B32	578.6	579.5	p gy lst w v dk gy shale mx as stylolites typical of z
213538	B32	534.6	535.5	p gy lst w v dk gy shale mx as stylolites typical of z
213539	B32	494.0	494.8	p gy lst w v dk gy shale mx as stylolites typical of z
213540	B32	695.4	696.3	wy calcareous dk gnish gy slt, 15mm q > calc vn typical of z
213541	B32	666.4	667.3	p gy lst w grnish gy slt, mx as wayy beds & typical of z
213542	B30	385.8	386.8	v dk gy carbonaceous shale
213543	B32	767.0	767.9	gnish gy sy calc slt w 60% cb in rhythmic bands
213544	B32	729.9	730.8	lt gnish gy slt my calc slt
213545	B23	384.0	384.7	gnish gy slt w rhythmic bands cb ~ 50%
213546	B23	461.0	461.9	gnish gy & dk gnish gy rhythmic calc slt w more cb bands
213547	B23	443.0	443.9	gnish gy & dk gnish gy rhythmic clac slt w more cb bands
213548	B23	427.2	428.1	more cb rich p gy cb w med gy slt z, rhythmic bedding
213551	B30	407.5	408.3	mod gy calc slt w mod dk gy slt mx
213552	B13	608.7	609.6	q pebble cong with clasts to 20mm predom qtzose w only mn dk clasts
213553	B13	629.6	630.5	q pebble cong with clasts to 20mm predom qtzose w only mn dk clasts w mn py
213554	B13	571.6	572.5	dk gy sst/grit
213555	B13	497.8	498.7	grit w ns (5%) dk gy sh clasts
213556	B13	453.2	454.1	dk gnish gy sst
213557	B13	417.0	418.0	"wet beds" cong, rdd, clast supported w 25% dk gy sh clasts
213558	B13	406.0	406.9	dk gy sst
213559	B13	380.2	381.1	med gy msv my calc slt
213560	B13	364.0	364.9	dk gnish gy msv my calc slt
213561	B13	316.7	317.6	gnish gy msv slt non calc
213562	B13	260.2	261.0	dk gnish gy slt non calc
213563	B13	199.3	200.0	gnish gy slt, my calc with rhythmic cb bedding

213564	B13	148.2	149.0	calc slt with rhythmic cb, some hmt cb beds
213565	B13	753.3	754.2	limestone, off white
213566	B13	823.3	824.2	limestone, off white with ocl silty stylolites
213567	B13	738.4	739.3	limestone, off white
213568	B13	796.7	797.5	impure calcareous sst/slt
213569	B13	724.3	725.2	q pebble cong (sub cdd to 10mm) with dsd py & cr
213571	B49	59.0	60.5	finely laminated shaley slt
213572	B49	48.3	49.2	msv qtzose greywacke sst
213573	B48	73.1	74.3	msv qtzose greywacke sst
213574	B48	40.0	41.1	finely laminated shaley slt
213580	B30	243.2	243.5	pale gn limestone (slt mx) with SC fabric?
213581	B30	245.3	245.4	calc shale ~ 0.5m above contact w poly cong - SC fabric?
213582	B30	246.4	246.5	calc shale at contact w poly cong
213583	B30	303.0	303.1	clast bn q wacke with ocl q
213584	B30	314.8	314.9	clast bn q wacke with ocl q
213585	B30	336.6	336.7	polymict cong
213586	B30	368.2	368.3	polymict cong
213587	B30	377.7	378.2	polymict cong
213588	B30	375.8	375.9	clastic bn wacke with ocl q
213589	B30	271.2	271.3	polymict cong
213590	B30	383.5	383.6	bk carbonaceous shale with SC fabric?
213591	B30	331.3	331.4	polymict cong
213621	SH1	5433450	487000	black carbonaceous shale
213622	DM3	5437200	484300	micaceous dk gy slt
213623	CHA2	5431760	485800	dk gy shale
213624	Derwent adit	5432460	485485	v dk gy carbonaceous shale
213625	Derwent adit	5432460	485485	v dk gy carbonaceous sandstone
213626	DM2	5437100	484200	v dk gy carbonaceous sandstone
213627	CHA1	5431760	485800	finely laminated dk gy slt
213628	SH3	5432800	485585	dk gy shale w cephalopods
213629	CHB2	5431760	485800	quartzose sandstone
213630	CHA1	5431760	485800	quartzose sandstone
213631	ceph slt	5432400	485200	cephalopod bearing dk gy shaley slt
213632	S5	64.3	66.8	dk gy shaley slt
213633	S5	80.4	81	dk gy shaley slt
213634	S5	30.5	31.5	med gy soft sed deformed shaley slt
213635	CHB2	5431760	485800	v dk gy carbonaceous slt
213636	Daakes	5434250	485600	dk gy shaley slt
213637	Daakes	5433600	485850	dk gy shaley slt, wed
213638	MAC	5437570	485700	dk gy shaley slt
213639	MAC	5437550	485600	dk gy shaley slt

APPENDIX 3

LITHOGEOCHEMICAL RESULTS SPREADSHEET

98-4205

Annual Report - EL 7/88

527179

BEACONSFIELD MINE: LITHOGEOCHEMISTRY

Lithological unit	Sample No.	DDH/informal name	Location From/Northing	To/Easting	Ti	Zr	Nb	Rb	Y	Ba	Sr	Sn	V	Ni	Cr	Co	Ti/Zr	Nb/Y
Corn Hill Beds shales	213623	CHA2	5431760	485800	4080	151	18	227	26	739	19	7	131	38	107	5	27.0	0.69
	213627	CHA1	5431760	485800	4092	156	15	238	25	762	19	9	117	10	101	<5	26.2	0.60
	213635	CHB2	5431760	485800	3377	167	13	150	32	1235	16	6	111	53	84	8	20.2	0.41
	213628	SH3	5432800	485585	4063	188	17	200	28	4132	14	6	142	27	93	<5	21.6	0.61
	213631	Ceph slt	5432400	485200	4187	218	20	206	33	4965	26	4	106	13	79	9	19.2	0.61
Ave					3960	176	16.6	204.2	28.8	2366.6	18.8	6.4	121.4	28.2	92.8	<6	22.9	
Std Dvn					329	27.4	2.7	34	3.6	2023	4.5	1.8	14.8	17.9	11.6	NR	3.6	
Corn Hill Beds sandstones	213629	CHB2	5431760	485800	3140	218	12	117	24	881	14	7	68	26	90	10	14.4	0.50
	213630	CHA1	5431760	485800	3302	408	13	98	28	381	24	7	64	26	111	10	8.1	0.46
Ave					3221	313	12.5	107.5	26	631	19	7	66	26	101	10	11.2	
Grubb Shale	213528	B23	120.8	121.3	3757	202	15	156	43	1928	183	7	137	73	92	9	18.6	0.35
	213529	B23	128.1	128.5	3930	221	11	162	44	1969	124	6	133	72	226	16	17.8	0.25
	213527	B23	161.9	162.4	4471	283	16	177	36	805	35	4	94	32	166	5	15.8	0.44
	213526	B23	185.6	186.4	4495	181	15	222	38	967	30	4	118	46	93	18	24.8	0.39
	213525	B23	194.4	195	4314	223	17	198	36	918	19	8	116	37	107	11	19.3	0.47
	213542	B32	365.8	386.8	4420	198	11	238	38	1078	49	10	120	37	119	7	22.3	0.29
Ave					4231	218	14.2	192.2	39.2	1278	73	6.5	120	49.5	134	11	19.8	0.37
Stddvn					311.5	35.5	2.56	33.1	3.5	527	65.6	2.35	15.2	18.4	52.7	5.1	3.27	0.09
Flowery Gully Limestone	213492	B23	220.3	221	129	<5	<3	6	6	42	137	<3	<5	<5	17	<5	25.8	NR
	213493	B23	273.7	274.3	120	<5	<3	7	<3	39	175	<3	<5	<5	20	<5	24	NR
	213494	B23	348.7	349.3	260	9	<3	12	4	52	187	<3	7	<5	12	<5	28.9	NR
	213551	B32	407.5	408.3	<100	<5	<3	<5	3	48	145	<3	<5	<5	17	<5	20	NR
	213539	B32	494	494.8	168	<5	<3	6	5	47	147	<3	<5	<5	8	<5	33.6	NR
	213538	B32	534.6	535.5	132	<5	<3	12	<3	39	157	<3	<5	<5	17	<5	26.4	NR
	213537	B32	578.6	579.5	227	<5	<3	10	<3	40	206	<3	<5	8	26	<5	45.4	NR
Ave					162.3	NR	NR	8.3	3.86	43.9	164.9	NR	NR	NR	16.7	NR	NR	0.84
Stddvn					59.8	NR	NR	3	1.21	5.15	25.3	NR	NR	NR	5.7	NR	NR	0.22
Eaglehawk Gully Formation	213545	B23	384	384.7	2179	149	6	46	21	143	77	<3	27	7	61	<5	14.6	0.29
	213548	B23	427.2	428.1	1632	194	7	33	15	93	115	3	27	<5	106	6	8.4	0.47
	213536	B32	621.7	622.8	2268	207	8	55	23	152	84	5	38	5	137	<5	11.0	0.35
	213541	B32	666.4	667.3	881	78	<3	16	9	60	146	<3	12	<5	31	<5	11.3	NR
	213562	B13	260.2	261	3290	243	9	75	28	183	24	5	63	24	311	6	13.5	0.32
	213561	B13	316.7	317.6	3206	333	9	32	26	78	23	3	47	15	311	8	9.6	0.35
	213488	B23	558.6	559.4	3040	257	9	57	29	141	33	5	53	19	342	8	11.8	0.31
	213489	B23	607.5	608.3	2504	254	6	31	19	88	25	6	36	10	74	8	9.9	0.32
	213506	B32	791.5	792.5	2176	197	4	39	26	99	43	8	41	17	57	10	11.0	0.15
	213507	B32	840.5	841.5	2841	170	8	70	21	151	34	4	52	19	248	18	16.7	0.38
	213508	B32	891.9	892.7	2813	221	7	44	20	102	27	3	58	16	67	10	12.7	0.35
	213563	B13	199.3	200	3180	251	9	64	30	141	55	3	59	25	93	14	12.7	0.30
	213544	B32	729.9	730.8	2071	161	4	53	19	112	71	<3	33	14	138	<5	12.9	0.21
	213543	B32	767	767.9	2036	136	5	44	21	117	78	5	34	10	56	<5	15.0	0.24
	213560	B13	364	364.9	3749	358	9	65	23	111	41	4	64	10	100	<5	10.5	0.39
	213509	B26	641.7	642.3	3722	310	9	52	24	114	42	<3	56	14	256	16	12.0	0.38
	213510	B26	650.7	651.6	2650	200	6	52	23	150	32	3	51	13	62	12	13.3	0.26
	213497	B32	946.8	947.5	3513	219	9	65	25	111	38	3	68	13	69	7	16.0	0.36
	213505	B23	651.4	652.3	3899	295	11	98	31	233	46	4	76	20	79	16	13.2	0.35
	213504	B23	660.4	661.3	1662	86	3	37	18	101	146	<3	25	7	73	<5	19.3	0.17
	213495	B32	923.5	924.4	2680	186	9	54	21	102	39	3	44	9	56	7	14.4	0.43
	213496	B32	929.7	930.5	2531	222	6	46	19	95	105	4	45	9	128	7	11.4	0.32
	213564	B13	148.2	149	3193	195	6	95	28	187	71	5	53	18	168	8	16.4	0.21
	213547	B23	443	443.9	3857	301	9	102	33	239	36	5	56	18	97	6	12.8	0.27
	213546	B23	461	461.9	3289	206	7	78	30	213	53	4	58	15	212	<5	16.0	0.23
	213540	B32	695.4	696.3	3900	300	12	85	33	198	28	5	56	16	313	9	13.0	0.36
	213503	B23	632.5	633.2	2886	213	5	40	23	100	14	3	58	13	73	<5	13.5	0.22
Ave					2802	220	7.2	56.6	23.6	134	56.5	<4	47.8	<13.6	138	<8.2	13.1	0.31
Std dvn					773	68.7	2.3	21.7	5.61	47.7	36.2	NR	14.9	NR	96	NR	2.46	0.08
Salisbury Hill Formation sandstones	213556	B13	453.2	454.1	1252	128	<3	19	10	107	19	3	31	28	37	7	9.78	NR
	213514	B26	715.4	716.5	1208	164	<3	16	6	184	18	4	16	10	267	<5	7.37	NR
	213515	B26	725.3	726.3	1576	176	7	25	13	96	14	4	30	22	530	7	8.95	0.54
	213516	B26	739.3	740.3	2366	210	9	41	18	276	14	4	47	49	203	<5	11.3	0.50
	213485	B32	1080.3	1081	3088	318	9	54	23	187	18	<3	53	30	371	11	9.71	0.39
	213559	B13	380.2	381.1	3262	414	9	44	31	105	85	<3	44	7	254	<5	7.88	0.29
	213558	B13	406	406.9	1733	209	6	36	15	86	18	<3	32	12	69	<5	8.29	0.40
	213511	B26	679.3	680.2	2973	204	3	37	16	148	21	<3	42	14	490	7	14.6	0.19
	213498	B32	959.4	960.5	2822	227	8	40	20	72	42	<3	42	11	247	<5	12.4	0.40
	213499	B32	978.6	979.3	2373	258	7	53	17	95	37	4	38	6	98	12	9.20	0.41
Ave					2265.3	231	<6.4	36.5	16.9	135.6	28.6	<3	37.5	18.9	256.6	<6.9	9.95	0.39
Std dvn					775	82.7	NR	13	6.94	63.5	22	NR	10.6	13.5	168	nr	2.23	0.11
Salisbury Hill Formation conglomerates	213517	B26	748.2	748.7	189	15	<3	5	3	129	5	<3	10	12	603	6	12.6	NR
	213518	B26	761	762	415	24	<3	11	4	66	7	<3	12	12	116	7	17.3	NR
	213483	B32	1041.9	1042.6	263	11	<3	6	3	189	10	3	11	9	67	<5	23.9	NR
	213484	B32	1064.5	1065.2	1258	262	<3	5	6	50	9	3	24	12	1437	<5	4.80	NR
	213519	B26	792	793	1950	360	6	25	11	78	8	4	41	41	2428	12	5.42	0.55
	213520	B26	815.6	816.6	758	104	<3	10	6	85	19	<3	15	21	295	<5	7.29	NR
	213557	B13	417	418	577	122	<3	8	3	112	37	<3	10	7	517	<5	4.73	NR
	213512	B26	691.7	692.8	651	112	<3	11	4	178	37	<3	11	<5	223	<5	5.81	NR
	213513	B26	701.8	702.8	1676	359	<3	12	8	108	8	<3	34	13	843	6	4.67	NR
	213500	B32	987.5	988.2	353	19	<3	12	5	82	31	<3	14	6	326	7	18.6	NR
	213501	B32	1003.6	1004.6	759	48	<3	22	8	123	98	<3	18	27	95	18	15.8	NR
	213502	B32	1008.5	1009.1	1091	215	<3	12	4	52	9	<3	14	10	932	8	5.07	NR
	213482	B32	1024.1	1024.6	2542	265	9	48	23	146	18	6	47	29	596	<5	9.59	0.39
	213555	B13	497.8	498.7	238	15	<3	5	4	33	11	<3	8	20	659	9	15.9	0.75
	213554	B13	571.6	572.5	976	164	4	13	5	90	7	3	18	36	38	11	5.95	0.8
Ave					913	140	NR	13.7	6.5	101.4	20.9	NR	19.1	<18.2	611.7	<9.3	10.50	
Std Dvn					690	125	NR	11.1	5.1	45.7	24	NR	12.1	NR	633	NR	6.30	
Cabbage Tree Conglomerate	213552	B13	608.7	609.6	450	51	<3	8	3	32	<5	<3	11	37	1361	<5	8.8	NR
	213553	B13	629.6	630.5	353	35	<3	11	5	43	5	<3	8	30	1009	9	10.1	NR
	213521	B26	838.3	839.3	504	61	<3	8	3	40	8	<3	14	39	1536	9	8.3	NR
	213522	B26	858	859	494	53	<3	8	5	34	12	4	13	19	737	<5	9.3	NR
	213486	B32	1125.2	1126	859	121	<3	9	5	30	5	3	14	13	926	7	7.1	NR
	213487	B32	1140.8	1141.5	387	39	<3	5	4	26	11	<3	5	23	258	<5	9.9	NR
	213491	B32	1159.5	1160.3	827	121	<3	14	4	39	9	4	19	24	575	<5	6.83	NR
	213490	B32	1170.5	1171.2	452	42	<3	7	4	36	8	<3	13	21	666	<5	10.8	NR
Ave					541	65.4	NR	8.75	4.13	35	<7.9	NR	12.1	25.8	884	NR	8.9	NR
Std dvn					193	35.3	NR	2.7	0.83	5.6	NR	NR	4.2	8.96	418	NR	NR	NR
Blyths Creek Formation shale	213523	B26	863.3	864.2	3492	213	12	138	34	411	82	6	92	42	142	14	16.4	0.35
	213530	B32	1181	1181.9	4044	246	13	136	37	402	79	6	112	121	107	24	16.4	0.35
	213531	B32	1195.5	1196.4	3515	195	12	183	32	485	93	4	98	47	17	18	18.0	0.38
Ave					3683	218	12.3	152	34.3	433	84.7	5.3	100.7	70	88.7	18.7	17.0	0.36
Std dvn					312	25.9	0.6	26.6	2.5	45.5	7.4	1.2	10.3	44.2	64.5	5	0.93	0.01
Blyths Creek Formation limestone	213567	B13	738.4	739.3	110	5	<3	10	<3	128	165	5	<5	<5	12	<5	22	NR
	213565	B13	753.3	754.2	144	5	<3	8	<3	52	199	<3	<5	<5	12	<5	28.8	NR
	213568	B13	796.7	797.5	115	<5	<3	<5	3	65	90	6	<5	9	26	<5	23	NR
	213566	B13	823.3	824.2	294	13	<3	42	3	100	235	<3	8	<5	9	<5	22.6	NR
	213532	B32	1207.6	1208.5	477	23	<3	23	<3	88	229	<3	11	<5	18	<5	20.7	NR
	213533	B32	1224.4	1225.3	224	12	<3	9	4	55	122	<3	8	13	18	<5	18.7	NR
Ave					227	<10.5	NR	11.2	NR	81.3	173	NR	NR	NR	15.8	NR	22.6	<0.96
Std dvn					141.5	NR	NR	6.2	NR	29.6	58.7	NR	NR	NR	6.1	NR	3.4	nr
Blyths Creek Formation conglomerate	213569	B13	724.3	725.2	332	32	<3	7	3	111	35	<3	9	23	470	5	10.4	NR
Blyths Creek Formation serpentinite	213535	B32	1246	1246.5	<100	<5	<3	<5	<3	19	199	3	<5	1837	1585	71	20	NR
Blyths Creek Formation dolomite	213534	B32	1251.5	1252.4	<100	<5	<3	<5	4	27	304	<3	6	755	1755	29	20	NR
Cambrian shale (Cobblestone Ck slice)	213577	MAC750	5437550	485600	4393	197	15	188	29	3523	23	5	124	27	90	<5	22.3	0.52
	213638	MAC	5437570	485700	4505	205	18	159	34	469	16	6	133	173	169	36	22.0	0.53
	213639	MAC	5437550	485600	3933	177	15	141	28	464	12	6	118	115	120	20	22.2	0.54
Ave					4277	193	16	163	30.3	1485	17	5.7	125	105	126	<28	22.2	
Std Dvn					303	14.4	1.7	23.7	3.2	1764	5.6	0.58	7.55	73.5	39.9	NR	0.17	
Cambrian sandstone (Cobblestone Ck slice)	213576	E sst	5435150	487300	4733	374	11	51	38	237	10	5	113	230	1236	22	12.7	0.29
	213578	E sst	5435150	487300	4404	308	11	55	28	232	10	3	100	234	1112	30	14.3	0.39
Ave					4569	341	11	53	33	235	10	4	107	232	1174	26	13.5	
Unassigned shales	213636	Daakes (sth) shale	5434250	485600	4493	221	21	185	37	4309	18	4	96	15	96	16	20.3	0.57
	213637	Daakes (west) shale	5433600	485850	3639	311	15	129	34	887	24	4	74	16	74	13	11.7	0.44
	213641	WG-36	5428870	486680	2204	365	9	46	29	238	36	3	30	8	76	10	6.04	0.31
	213642	WG-37	5428720	487130	4197	208	18	205	32	5216	26	5	117	55	77	18	20.2	0.56
	213622	DM3	5437200	484300	3100	273	60	99	33	383	21	7	60	32	77	9	11.4	1.82
	213621	SH1 mullock on S Hill	5433450	487000	4079	212	16	235	38	1631	21	6	130	32	78	13	19.2	0.42
	213624	Derwent adit shale	5432460	485485	3649	180	15	176	74	1539	46	7	141	24	101	22	20.3	0.20
	213574	B48	40	41.1	4430	204	13	208	37	699	31	8	134	55	118	15	21.7	0.35
	213571	B49	59	60.5	4639	193	14	184	39	963	23	8	130	45	108	20	24.0	0.36
	213632	S5	64.3	65.8	2932	181	14	176	28	864	48	5	87	105	107	17	16.2	0.50
	213633	S5	80.4	81	3027	168	11	171	28	690	44	10	86	120	118	27	18.0	0.39
	213634	S5	30.5	31.5	3942	191	17	213	34	2114	24	5	107	65	91	15	20.6	0.50
Unassigned sandstones	213640	WG-34	5428430	487200	2586	705	10	48	32	262	64	4	34	8	475	8	3.67	0.31
	213626	DM2	5437100	484200	2708	341	14	87	25	340	21	6	61	29	126	6	7.94	0.56
	213625	Derwent adit sst	5432460	485485	2662	318	9	85	21	548	29	4	74	34	66	6	8.37	0.43
	213573	B48	73.1	74.3	3064	435	9	81	31	306	34	6	65	25	255	<5	7.0	0.29
	213572	B49	48.3	49.2	2960	418	9	75	30	411	15	3	63	24	76	17	7.1	0.30
			Eastings	Northings														
Mathinna Beds	SC106		585900	5415600	5336	185.5	22	187	29	848	146		146	6	121		28.8	0.76
	63099		579600	5472400	2398	421.3	6.7	57.1	32.7	274	61.9			22	108		5.7	0.20
	Au2		568400	5414400	4376									18	112			
	Au3		568200	5415100	3597									12	154			
	Au4		564200	5418400	2278									35	122			
	Au5		564200	5418400	4676									14	176			
	Au6		564100	5410900	3177									29	111			
	Au7		563600	5410200	4556									35	113			
	Au8		563600	5410200	4796									9	212			
	Au9		563600	5410200	2938									27	151			
	Au10		567500	5428200	3657									21	114			
	Au11		568400	5427800	3177									32	129			
	Au12		568400	5426400	3657									23	116			
	Au15		569200	5426000	3537									13	157			
	Au16		575100	5415500	3177													
Ave					3689	303.4	14.35	122.05	30.85	561	103.95			21.1	135			
Std dvn					893.5									9.6	30.6			

Sample No.	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Ga	Th	Sc	P	La/Sc	Eu/Sm	La/Lu	Th/Co	La/Co
213623	37.1	77.76	8.84	32.7	5.7	1.19	4.2	0.58	3.8	0.69	1.9	0.3	2	0.3	28.1	19.39	14	399	2.65	0.21	123.7	3.88	7.42
213627	30.13	65.77	7.61	25.4	5	1.05	3.6	0.49	3.2	0.61	1.7	0.26	1.8	0.3	27.6	17.16	12	282	2.51	0.21	100.4	NR	NR
213635	42.44	90.45	9.71	36.6	6.9	1.52	5.0	0.79	5.4	1.05	2.8	0.42	2.6	0.4	16.9	13.63	8	519	5.31	0.22	106.1	1.70	5.31
213628	8.15	19.97	2.44	9.7	1.9	1	1.9	0.32	2	0.41	1.3	0.2	1.4	0.2	23.6	10.46	12	61	0.68	0.53	40.8	NR	NR
213631	40.1	84.62	9.44	35.3	6.3	1.98	4.8	0.81	4.4	0.83	2.2	0.35	2.4	0.4	25.3	16.63	10	77	4.01	0.32	100.3	2.09	4.46
213629	22.3	50.06	5.63	21	3.9	0.85	3.2	0.47	3	0.58	1.6	0.25	1.7	0.3	15	12.46	6	343	3.72	0.22	74.3	1.25	2.23
213630	43.45	90.69	10.28	37.6	6.6	1.17	4.5	0.32	3.4	0.63	1.6	0.27	1.7	0.3	13.6	16.46	6	192	7.24	0.18	144.8	1.65	4.35
213528	36.08	73.44	8.54	32	5.7	1.1	4.9	0.65	4.1	0.8	2.2	0.34	2.4	0.4	18.1	12.85	10	640	3.61	0.19	90.2	1.43	4.01
213527	39.78	79.34	9.03	33.7	6.2	1.27	5.1	0.65	4.1	0.78	2.2	0.33	2.2	0.4	20.4	17.35	10	480	3.98	0.20	99.5	3.47	7.96
213525	43.04	85.97	9.75	36.2	6.2	1.34	5.1	0.67	4.3	0.85	2.4	0.37	2.5	0.4	22.9	16.63	12	440	3.59	0.22	107.6	1.53	3.91
213493	1.68	3.07	0.36	1.5	0.3	0.09	0.4	0.06	0.4	0.08	0.3	<0.05	0.2	<0.01	<0.5	0.39	<2	180	NR	0.30	NR	NR	NR
213494	2.89	5.01	0.59	2.3	0.5	0.11	0.5	0.06	0.5	0.11	0.3	<0.05	0.3	<0.01	1.1	0.66	<2	60	NR	0.22	NR	NR	NR
213539	2.5	3.98	0.51	2.2	0.5	0.1	0.5	0.06	0.5	0.12	0.3	<0.05	0.3	<0.01	<0.5	0.6	<2	100	NR	0.20	NR	NR	NR
213523	39.59	85	9.31	34.6	6.2	1.2	4.3	0.48	2.9	0.57	1.6	0.27	1.9	0.3	20.2	14.36	12	430	3.30	0.19	132.0	1.03	2.83
213530	37.05	81.51	9.18	34.5	6.3	1.25	4.3	0.48	3	0.58	1.6	0.28	2	0.3	21	13.39	12	450	3.09	0.20	123.5	0.56	1.54
213531	38.98	84.11	9.43	35.8	6.4	1.26	4.2	0.44	3.1	0.56	1.5	0.28	2	0.3	23.9	14.82	12	420	3.25	0.20	129.9	0.82	2.17
213567	1.5	3.02	0.33	1.3	0.3	0.07	0.2	<0.05	0.2	<0.5	0.1	<0.05	0.1	<0.01	0.6	0.43	<2	140	NR	0.23	NR	NR	NR
213566	4.2	9.21	0.99	3.7	0.7	0.16	0.7	0.1	0.7	0.14	0.4	0.06	0.3	<0.01	1.4	1.24	<2	190	NR	0.23	NR	NR	NR
213532	5.63	12.06	1.31	4.9	0.9	0.19	0.8	0.12	0.8	0.16	0.5	0.07	0.4	<0.01	2.5	1.98	2	200	2.815	0.21	NR	NR	NR
213577	43.7	87.3	9.43	33.9	5.6	1.6	4.3	0.53	3.6	0.7	2	0.32	2.2	0.4	23	17.79	10	220	4.37	0.29	109.3	NR	NR
213638	17.82	43.81	5.24	20.7	4.1	0.91	3.4	0.45	3	0.57	1.7	0.29	2	0.3	21.5	8.79	10	250	1.79	0.22	59.7	0.24	0.50
213639	19.89	45.01	5.36	20.9	4.1	0.88	3.3	0.43	2.9	0.57	1.7	0.26	2	0.3	20.5	8.46	10	262	1.99	0.21	66.3	0.42	0.99
213636	46.51	99.21	10.5	39.4	7.4	2.18	6.1	0.79	5.1	0.96	2.5	0.39	2	0.4	23.5	18.6	12	55	3.88	0.29	116.3	1.16	2.91
213637	56.54	116.11	12.43	45.1	8	1.64	5.9	0.72	4.7	0.83	2.1	0.33	2.1	0.3	14.8	16.3	6	105	9.42	0.21	188.5	1.25	4.35
213641	44.9	77.66	9.7	36	6.2	1.22	4.7	0.59	3.8	0.65	1.6	0.24	1.5	0.2	5.3	11.1	2	413	22.5	0.20	224.5	1.11	4.49
213642	35.42	80.67	8.84	32.6	5.9	1.65	4.7	0.63	4	0.77	2.2	0.33	2.2	0.4	23.6	18.1	10	178	3.84	0.33	96.05	1.00	2.13
213622	33.6	69.37	7.87	29.5	5.8	1.09	4.7	0.65	3.9	0.75	2.1	0.32	2	0.3	14.8	14.2	8	456	4.20	0.19	112	1.58	3.73
213621	37.54	80.96	9.32	34.5	6.3	1.37	4.9	0.67	4.1	0.82	2.3	0.36	2.4	0.4	27.6	18.2	14	105	2.68	0.22	93.85	1.4	2.89
213624	45.56	106.43	11.45	47.3	10.5	2.3	10	1.3	6.9	1.21	2.8	0.46	3	0.5	22.1	15.2	12	564	3.80	0.22	91.12	0.69	2.07
213574	48.3	98.53	10.96	40.3	7.2	1.5	5.6	0.69	4.5	0.85	2.3	0.36	2.4	0.4	24.3	19.21	12	630	4.03	0.21	120.8	0.96	2.42
213571	46.79	97.93	10.73	40.1	7.4	1.51	5.9	0.8	5.1	0.97	2.6	0.4	2.7	0.4	23.9	18.62	12	480	3.90	0.20	117.0	1.24	3.12
213632	36.52	78.23	8.78	33	6.1	1.15	4.1	0.47	3.6	0.71	1.8	0.32	2.2	0.4	20.2	13.2	12	564	3.04	0.19	91.3	0.78	2.15
213633	35.64	75.67	8.49	31.8	5.8	1.2	4.1	0.48	3.7	0.7	1.9	0.32	2.2	0.4	19.9	12.9	12	256	2.97	0.21	89.1	0.48	1.32
213634	39.64	82.05	9.13	33.9	6.1	1.5	4.8	0.59	4.3	0.84	2.2	0.35	2.3	0.4	22.2	16.3	10	302	3.96	0.25	99.1	1.08	2.64
213640	48.24	74.97	9.17	32.3	4.9	0.94	3.3	0.35	2.6	0.46	1.3	0.22	1.6	0.3	5.7	12.45	4	1640	12.06	0.19	160.8	1.56	6.03
213626	32.43	66.67	7.49	28.1	5.2	1.01	4.1	0.52	3.4	0.65	1.7	0.27	1.7	0.3	12.3	12.69	6	478	5.41	0.19	108.1	2.12	5.41
213625	30.97	63.02	6.91	25.6	4.7	0.9	4	0.53	3.1	0.6	1.7	0.27	1.6	0.3	12.1	12.58	6	439	5.16	0.19	103.2	2.10	5.16

APPENDIX 4

ASSAY RESULTS

amdel

This Laboratory is registered by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of registration. This document shall not be reproduced except in full.

MINERAL CHEMISTRY

Amdel Laboratories Ltd
PO Box 338
Torrensville Plaza SA 5031
ACN 009 076 555

Telephone (08) 8416 5300
Facsimile (08) 8234 0321

527181

Mr Peter Hills
Beaconsfield Mine Joint Venture
5 West Street
BEACONSFIELD TAS 7270

RECEIVED 23 JAN 1997

FINAL ANALYSIS REPORT

Your Order No:

Our Job Number : 7AD0029

Sample rec'd : 07/01/97
No. of samples : 80
Report comprises a cover sheet and pages 1 to 2

Results reported : 17/01/97

This report relates specifically to the samples tested in so far that the samples as supplied are truly representative of the sample source.

Approved Signature:

A Ciplys

for
Alan Ciplys
Manager - Mineral Chemistry

Report Codes:
N.A. - Not Available.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample.

Distribution Codes:
CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

527182

amdel

Job: 7AD0029
O/N:

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Ag	Cu	Pb	Zn	As
TR1 0- 1	0.04	--	<1	4	<5	20	<3
TR1 1- 2	0.07	--	<1	4	<5	6	4
TR1 2- 3	0.15	--	<1	5	25	33	12
TR1 3- 4	0.02	--	<1	5	<5	20	4
TR1 4- 5	0.15	--	<1	5	<5	19	<3
TR1 5- 6	<0.01	--	<1	4	<5	19	<3
TR1 6- 7	<0.01	--	<1	4	<5	29	<3
TR1 7- 8	0.21	--	<1	11	40	19	38
TR1 8- 9	0.15	--	<1	5	10	18	155
TR1 9-10	0.11	--	<1	8	<5	42	80
TR1 10-11	0.13	0.16	<1	4	5	26	16
TR2 0- 1	0.06	--	<1	3	<5	8	8
TR2 1- 2	0.08	--	<1	4	10	20	18
TR2 2- 3	0.03	--	<1	5	15	25	8
TR2 3- 4	0.02	--	<1	4	<5	39	<3
TR2 4- 5	0.04	--	<1	4	<5	17	<3
TR2 5- 6	0.05	--	<1	4	10	26	6
TR2 6- 7	0.14	--	<1	5	10	32	8
TR2 7- 8	0.22	--	<1	5	25	14	20
TR2 8- 9	0.18	--	<1	2	<5	18	<3
TR2 9-10	0.82	--	<1	4	10	50	6
TR3 0- 1	0.63	0.83	<1	6	35	36	12
TR3 1- 2	1.67	1.60	<1	4	15	12	53
TR3 2- 3	0.76	1.01	<1	4	5	24	4
TR3 3- 4	0.36	--	<1	4	10	6	6
TR3 4- 5	0.05	--	<1	3	10	9	8
TR3 5- 6	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
TR3 6- 7	0.14	--	<1	3	15	32	10
TR3 7- 8	0.57	0.44	<1	4	20	47	8
TR3 8- 9	1.19	1.18	<1	3	20	23	8
TR3 9-10	0.49	--	<1	4	10	43	10
TR3 10-11	0.40	--	<1	4	35	26	18
TR3 11-12	0.48	0.45	<1	<2	5	7	4
TR3 12-13	0.31	--	<1	3	10	20	4
TR3 13-14	0.23	--	<1	3	10	15	<3
TR3 14-15	0.38	0.35	<1	3	10	19	4
TR3 15-16	1.67	1.07	<1	2	35	6	6
TR3 16-17	0.38	0.47	<1	3	40	11	6
TR3 17-18	0.22	--	<1	3	25	4	6
TR3 18-19	0.15	--	<1	3	45	22	4
TR3 19-20	0.09	--	<1	4	25	10	6
TR3 20-21	0.03	--	<1	3	10	11	4
TR3 21-22	0.10	0.13	<1	2	10	12	6
TR3 22-23	0.08	--	<1	3	5	8	4
TR3 23-24	0.07	--	<1	3	5	21	6
TR3 24-25	0.31	--	<1	3	5	14	6
TR3 25-26	0.15	--	<1	2	20	25	16
TR4 0- 1	0.09	--	<1	5	5	34	4
TR4 1- 2	0.15	--	<1	5	15	32	6
TR4 2- 3	0.01	--	<1	2	5	14	<3
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.01	0.01	1	2	5	2	3
SCHEME	FA1	FA1	IC3E	IC3E	IC3E	IC3E	IC3E

amdel

Job: 7AD0029
O/N:

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dpl	Ag	Cu	Pb	Zn	As
TR4 3- 4	0.09	--	<1	2	5	19	<3
TR4 4- 5	0.07	--	<1	3	<5	19	<3
TR4 5- 6	0.08	--	<1	2	<5	<2	<3
TR4 6- 7	0.01	--	<1	3	5	18	<3
TR4 7- 8	0.02	--	<1	4	5	36	<3
TR4 8- 9	<0.01	--	<1	3	5	<2	<3
TR4 9-10	<0.01	--	<1	3	<5	24	<3
TR4 10-11	0.01	--	<1	3	<5	26	<3
TR4 11-12	0.01	--	<1	4	<5	12	<3
TR4 12-13	0.02	--	<1	5	<5	25	4
TR4 13-14	0.01	0.03	<1	4	<5	16	<3
TR4 14-15	0.02	0.04	<1	3	<5	20	<3
TR4 15-16	0.02	--	<1	3	5	4	4
TR4 16-17	0.01	--	<1	2	10	<2	4
TR5 0- 1	0.01	--	<1	4	5	14	24
TR5 1- 2	0.04	--	<1	4	10	25	4
TR5 2- 3	0.11	--	<1	3	10	9	18
TR5 3- 4	0.04	0.04	<1	3	10	11	12
TR5 4- 5	0.03	--	<1	3	<5	17	<3
TR5 5- 6	0.01	--	<1	3	<5	13	<3
TR5 6- 7	0.02	--	<1	<2	<5	<2	<3
TR5 7- 8	0.04	--	<1	3	5	13	4
TR5 8- 9	0.04	--	<1	2	<5	11	<3
TR5 9-10	0.02	--	<1	4	5	36	4
TR5 10-11	0.01	--	<1	3	<5	9	<3
TR5 11-12	0.01	--	<1	<2	<5	8	<3
TR5 12-13	<0.01	--	<1	3	5	28	<3
TR5 13-14	<0.01	--	<1	4	10	32	4
TR5 14-15	0.25	--	<1	3	<5	32	4
TR5 15-16	0.07	--	<1	3	10	22	6
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.01	0.01	1	2	5	2	3
SCHEME	FA1	FA1	IC3E	IC3E	IC3E	IC3E	IC3E

527184

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	: BU013619
Your reference	: **WCAO342014**
Project code	: Diamaond Drill Core
Date received	: 03/09/97
Date reported	: 17/09/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 36
First Sample	: B42-52.5-54.5
Last Sample	: B42-148.0-149.6

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
09/09/97 Report
11/09/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527185

ANALABS

Our reference	:	BU013619
Your reference	:	**WCAO342014**
Project code	:	Diamaond Drill Core
Report date	:	17/09/97
Report status	:	Final
Page	:	1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St. Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B42/52.5-54.5	<0.01	--	0.06	2		
B42/54.5-56.0	<0.01	--	0.05	1		
B42/56.0-57.5	<0.01	--	0.02	7		
B42/57.5-59.0	<0.01	--	0.10	6		
B42/59.0-60.5	<0.01	--	0.85	5		
B42/60.5-62.0	<0.01	--	0.54	10		
B42/62.0-63.5	<0.01	--	0.98	15		
B42/63.5-65.0	<0.01	--	0.73	8		
B42/65.0-66.5	<0.01	<0.01	0.86	19		
B42/66.5-68.0	<0.01	--	0.78	25		
B42/68.0-69.5	<0.01	--	0.34	6		
B42/69.5-71.0	<0.01	--	0.21	40		
B42/71.0-72.0	<0.01	--	0.41	1		
B42/72.0-73.5	<0.01	--	0.10	9		
B42/73.5-75.0	<0.01	--	0.08	1		
B42/75.0-76.5	<0.01	--	0.15	2		
B42/76.5-78.0	<0.01	--	0.11	9		
B42/78.0-79.5	<0.01	--	0.26	7		
B42/120.2-122.2	<0.01	--	0.32	6		
B42/122.2-124.2	<0.01	--	0.19	2		
B42/124.2-125.1	<0.01	<0.01	0.20	3		
B42/125.1-126.7	<0.01	--	0.20	27		
B42/126.7-128.0	<0.01	--	0.38	7		
B42/128.0-130.0	<0.01	--	0.16	2		
B42/130.0-132.0	<0.01	--	0.11	12		
B42/132.0-134.0	<0.01	--	0.40	6		
B42/134.0-135.2	<0.01	--	0.05	3		
B42/135.2-137.2	<0.01	--	0.04	6		
B42/137.2-138.4	<0.01	--	0.05	14		
B42/138.4-139.2	<0.01	--	0.34	12		
B42/139.2-141.2	0.05	0.04	0.41	34		
B42/141.2-142.7	<0.01	--	0.25	5		
B42/142.7-144.2	<0.01	--	0.12	4		
B42/144.2-146.0	<0.01	<0.01	0.17	2		
B42/146.0-148.0	<0.01	--	0.19	<1		
B42/148.0-149.6	<0.01	--	0.22	3		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527136

A N A L A B S

Our reference : BU013619
Your reference : **WCAO342014**
Project code : Diamaond Drill Core
Report date : 17/09/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
B42/52.5-54.5	<2	3	9	<1	<50	
B42/54.5-56.0	<2	30	<2	<1	<50	
B42/56.0-57.5	11	8	14	<1	<50	
B42/57.5-59.0	3	7	8	<1	<50	
B42/59.0-60.5	6	20	69	<1	<50	
B42/60.5-62.0	7	13	60	<1	<50	
B42/62.0-63.5	12	17	74	<1	<50	
B42/63.5-65.0	5	29	94	<1	<50	
B42/65.0-66.5	14	27	61	<1	<50	
B42/66.5-68.0	28	41	68	<1	<50	
B42/68.0-69.5	15	34	111	<1	<50	
B42/69.5-71.0	5	18	106	<1	<50	
B42/71.0-72.0	2	14	30	<1	<50	
B42/72.0-73.5	9	51	77	<1	<50	
B42/73.5-75.0	15	37	67	<1	<50	
B42/75.0-76.5	9	18	70	<1	<50	
B42/76.5-78.0	3	<3	44	<1	<50	
B42/78.0-79.5	4	9	75	<1	<50	
B42/120.2-122.2	14	34	78	<1	<50	
B42/122.2-124.2	12	15	50	<1	<50	
B42/124.2-125.1	6	<3	43	<1	<50	
B42/125.1-126.7	13	25	102	<1	<50	
B42/126.7-128.0	14	13	55	<1	<50	
B42/128.0-130.0	10	<3	29	<1	<50	
B42/130.0-132.0	4	4	33	<1	<50	
B42/132.0-134.0	6	9	64	<1	<50	
B42/134.0-135.2	6	3	34	<1	<50	
B42/135.2-137.2	5	<3	31	<1	<50	
B42/137.2-138.4	6	3	36	<1	<50	
B42/138.4-139.2	12	9	49	<1	<50	
B42/139.2-141.2	10	4	30	<1	<50	
B42/141.2-142.7	7	7	25	<1	<50	
B42/142.7-144.2	10	<3	31	<1	<50	
B42/144.2-146.0	16	<3	28	<1	<50	
B42/146.0-148.0	8	8	29	<1	<50	
B42/148.0-149.6	10	<3	21	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013619 Order number : WCAO342014

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527183

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013662
Your reference	:	**WCA0342017**
Project code	:	Half Core
Date received	:	11/09/97
Date reported	:	25/09/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 30
First Sample	: B43-28.9-30.4
Last Sample	: B43-73.0-74.5

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :

17/09/97	Report
17/09/97	Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527189

ANALABS

Our reference	:	BU013662
Your reference	:	**WCA0342017**
Project code	:	Half Core
Report date	:	25/09/97
Report status	:	Final
Page	:	1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Cu	Pb	Zn	Ag	As
B43/28.9-30.4	0.47	5	6	25	<1	<50
B43/30.4-31.9	0.33	4	5	12	<1	<50
B43/31.9-33.4	0.21	5	<3	19	<1	<50
B43/33.4-34.9	0.17	5	5	12	<1	<50
B43/34.9-36.4	0.13	3	4	14	<1	<50
B43/36.4-37.9	0.09	4	5	16	<1	<50
B43/37.9-39.4	0.28	4	8	17	<1	<50
B43/39.4-40.9	0.46	4	5	13	<1	55
B43/40.9-42.4	0.01	3	3	8	<1	<50
B43/42.4-43.9	0.25	5	5	6	<1	<50
B43/43.9-45.0	0.81	29	34	16	<1	212
B43/45.0-47.8	2.37	91	48	29	<1	270
B43/47.8-49.3	0.31	7	11	10	<1	<50
B43/49.3-50.8	1.26	6	4	6	<1	89
B43/50.8-52.3	1.31	8	4	8	<1	<50
B43/52.3-53.8	1.45	6	7	8	<1	118
B43/53.8-55.7	<0.01	7	10	7	<1	<50
B43/55.7-57.1	0.04	13	16	11	<1	98
B43/57.1-58.6	<0.01	15	13	19	<1	<50
B43/58.6-60.1	<0.01	17	9	18	<1	<50
B43/60.1-61.6	<0.01	13	9	16	<1	<50
B43/61.6-63.1	<0.01	17	11	11	<1	<50
B43/63.1-64.1	<0.01	21	18	16	<1	<50
B43/64.1-65.1	<0.01	22	17	15	<1	<50
B43/65.1-66.6	<0.01	14	5	7	<1	<50
B43/66.6-68.8	<0.01	12	5	6	<1	<50
B43/68.8-70.0	<0.01	8	4	8	<1	<50
B43/70.0-71.5	0.09	13	<3	12	<1	<50
B43/71.5-73.0	0.08	8	10	15	<1	<50
B43/73.0-74.5	<0.01	9	11	8	<1	<50
Method	F630	A102	A102	A102	A102	A102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	2	3	2	1	50

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527100

ANALABS

Our reference	:	BU013662
Your reference	:	**WCA0342017**
Project code	:	Half Core
Report date	:	25/09/97
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	S	As				
B43/28.9-30.4	<0.01	41				
B43/30.4-31.9	<0.01	2				
B43/31.9-33.4	<0.01	27				
B43/33.4-34.9	<0.01	7				
B43/34.9-36.4	<0.01	39				
B43/36.4-37.9	<0.01	49				
B43/37.9-39.4	<0.01	30				
B43/39.4-40.9	<0.01	N.A.				
B43/40.9-42.4	<0.01	31				
B43/42.4-43.9	<0.01	21				
B43/43.9-45.0	<0.01	N.A.				
B43/45.0-47.8	0.03	N.A.				
B43/47.8-49.3	0.01	<1				
B43/49.3-50.8	<0.01	N.A.				
B43/50.8-52.3	0.03	<1				
B43/52.3-53.8	0.02	N.A.				
B43/53.8-55.7	0.01	38				
B43/55.7-57.1	0.06	N.A.				
B43/57.1-58.6	0.27	34				
B43/58.6-60.1	0.81	20				
B43/60.1-61.6	0.67	1				
B43/61.6-63.1	0.27	26				
B43/63.1-64.1	0.35	2				
B43/64.1-65.1	0.61	3				
B43/65.1-66.6	0.03	4				
B43/66.6-68.8	0.04	1				
B43/68.8-70.0	0.12	<1				
B43/70.0-71.5	0.33	31				
B43/71.5-73.0	0.25	<1				
B43/73.0-74.5	0.11	24				
Method	V821	H102				
Units	%	ppm				
Detection Limit	0.01	1				

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013662 Order number : WCA0342017

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527192

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013683
Your reference	:	**WCAO342019**
Project code	:	
Date received	:	15/09/97
Date reported	:	26/09/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 26
First Sample	: B43-74.5-76.0
Last Sample	: B43-117.5-119.1

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :

19/09/97	Report
22/09/97	Report
25/09/97	Report
25/09/97	Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527193

ANALABS

Our reference : BU013683
Your reference : **WCAO342019**
Project code :
Report date : 26/09/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B43/74.5-76.0	<0.01	--	0.23	<1		
B43/76.0-77.5	0.02	--	0.19	15		
B43/77.5-79.0	0.01	<0.01	0.19	3		
B43/79.0-80.5	<0.01	--	0.18	20		
B43/80.5-82.0	<0.01	--	0.12	21		
B43/82.0-83.5	<0.01	--	0.17	28		
B43/83.5-86.0	0.07	0.09	0.55	41		
B43/86.0-87.5	0.16	0.18	7.46	N.A.		
B43/87.5-88.5	0.01	--	1.88	N.A.		
B43/88.5-90.0	<0.01	--	0.26	N.A.		
B43/90.0-91.5	<0.01	--	0.13	47		
B43/91.5-93.0	<0.01	--	0.22	N.A.		
B43/93.0-95.0	<0.01	--	0.18	N.A.		
B43/95.0-97.0	<0.01	<0.01	0.10	36		
B43/97.0-99.0	<0.01	--	0.09	<1		
B43/99.0-101.0	<0.01	--	0.14	6		
B43/101.0-103.0	<0.01	--	0.09	2		
B43/103.0-105.0	<0.01	<0.01	0.24	3		
B43/105.0-107.0	<0.01	--	0.20	1		
B43/107.0-109.0	<0.01	--	0.81	13		
B43/109.0-111.0	<0.01	--	0.31	5		
B43/111.0-112.5	0.02	0.02	0.43	19		
B43/112.5-114.0	0.02	0.03	0.51	5		
B43/114.0-115.5	0.02	--	0.68	1		
B43/115.5-117.5	0.02	--	0.06	<1		
B43/117.5-119.1	0.01	0.02	0.07	<1		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527194

ANALABS

Our reference	:	BU013683
Your reference	:	**WCAO342019**
Project code	:	
Report date	:	26/09/97
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
B43/74.5-76.0	16	6	13	<1	<50	
B43/76.0-77.5	5	8	16	<1	<50	
B43/77.5-79.0	8	9	13	<1	<50	
B43/79.0-80.5	6	3	12	<1	<50	
B43/80.5-82.0	5	6	10	<1	<50	
B43/82.0-83.5	4	9	11	<1	<50	
B43/83.5-86.0	6	8	13	<1	<50	
B43/86.0-87.5	4	8	20	<1	241	
B43/87.5-88.5	10	13	26	<1	52	
B43/88.5-90.0	9	24	38	<1	214	
B43/90.0-91.5	4	16	28	<1	<50	
B43/91.5-93.0	8	16	42	<1	52	
B43/93.0-95.0	6	9	40	<1	132	
B43/95.0-97.0	223	9	186	<1	<50	
B43/97.0-99.0	74	5	87	<1	<50	
B43/99.0-101.0	47	4	72	<1	<50	
B43/101.0-103.0	4	<3	33	<1	<50	
B43/103.0-105.0	5	19	35	<1	<50	
B43/105.0-107.0	9	5	38	<1	<50	
B43/107.0-109.0	8	4	41	<1	<50	
B43/109.0-111.0	34	7	41	<1	<50	
B43/111.0-112.5	73	23	83	<1	<50	
B43/112.5-114.0	3	6	20	<1	<50	
B43/114.0-115.5	5	<3	27	<1	<50	
B43/115.5-117.5	5	<3	26	<1	<50	
B43/117.5-119.1	4	14	51	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527195

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013683 Order number : WCAO342019

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527196

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013731
Your reference	:	**WCAO 0342021**
Project code	:	BRD 28 Half Drill Core
Date received	:	25/09/97
Date reported	:	12/10/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 24
First Sample	: BRD28-54.0-55.5
Last Sample	: BRD28-88.5-90.1

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
30/09/97 Report
13/10/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527197

A N A L A B S

Our reference : BU013731
Your reference : **WCAO 0342021**
Project code : BRD 28 *Half Drill Core*
Report date : 12/10/97
Report status : Final
Page : 1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
BRD28/54.0-55.5	0.01	--	0.01	11		
BRD28/55.5-57.0	0.01	--	<0.01	8		
BRD28/57.0-58.5	<0.01	--	0.03	15		
BRD28/58.5-60.0	<0.01	--	0.07	7		
BRD28/60.0-61.5	<0.01	--	<0.01	1		
BRD28/61.5-63.0	<0.01	--	<0.01	11		
BRD28/63.0-64.5	<0.01	--	0.13	<1		
BRD28/64.5-66.0	<0.01	--	0.02	15		
BRD28/66.0-67.5	<0.01	<0.01	0.02	4		
BRD28/67.5-69.0	<0.01	--	<0.01	7		
BRD28/69.0-70.5	<0.01	--	0.19	10		
BRD28/70.5-72.0	<0.01	--	0.53	13		
BRD28/72.0-73.5	<0.01	--	0.02	2		
BRD28/73.5-75.0	<0.01	--	0.37	1		
BRD28/75.0-76.5	<0.01	<0.01	0.05	<1		
BRD28/76.5-78.0	<0.01	--	0.03	1		
BRD28/78.0-79.5	0.09	--	<0.01	4		
BRD28/79.5-81.0	0.04	--	0.06	3		
BRD28/81.0-82.5	<0.01	--	<0.01	<1		
BRD28/82.5-84.0	<0.01	--	0.04	5		
BRD28/84.0-85.5	<0.01	--	0.06	11		
BRD28/85.5-87.0	<0.01	--	<0.01	<1		
BRD28/87.0-88.5	<0.01	<0.01	<0.01	<1		
BRD28/88.5-90.1	<0.01	--	0.24	10		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527198

A N A L A B S

Our reference	:	BU013731
Your reference	:	**WCAO 0342021**
Project code	:	BRD 28 Half Drill Core
Report date	:	12/10/97
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
BRD28/54.0-55.5	14	15	19	<1	<50	
BRD28/55.5-57.0	2	6	9	<1	<50	
BRD28/57.0-58.5	4	4	15	<1	<50	
BRD28/58.5-60.0	4	8	17	<1	<50	
BRD28/60.0-61.5	7	4	10	<1	<50	
BRD28/61.5-63.0	<2	3	8	<1	<50	
BRD28/63.0-64.5	<2	3	4	<1	<50	
BRD28/64.5-66.0	<2	<3	5	<1	<50	
BRD28/66.0-67.5	<2	<3	15	<1	<50	
BRD28/67.5-69.0	2	3	14	<1	<50	
BRD28/69.0-70.5	<2	4	20	<1	<50	
BRD28/70.5-72.0	<2	3	31	<1	<50	
BRD28/72.0-73.5	<2	4	13	<1	<50	
BRD28/73.5-75.0	<2	6	10	<1	<50	
BRD28/75.0-76.5	<2	4	3	<1	<50	
BRD28/76.5-78.0	<2	3	6	<1	<50	
BRD28/78.0-79.5	<2	3	6	<1	<50	
BRD28/79.5-81.0	24	62	121	<1	<50	
BRD28/81.0-82.5	2	6	4	<1	<50	
BRD28/82.5-84.0	<2	5	18	<1	<50	
BRD28/84.0-85.5	<2	<3	8	<1	<50	
BRD28/85.5-87.0	<2	4	5	<1	<50	
BRD28/87.0-88.5	2	3	5	<1	<50	
BRD28/88.5-90.1	2	4	15	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527199

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013731 Order number : WCAO 0342021

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527200

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013783
Your reference : **WCAO342024**
Project code : Diamond Drill Core
Date received : 06/10/97
Date reported : 17/10/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 1
Number of Samples : 14
First Sample : BRC43-00-04
Last Sample : VENT 3

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
13/10/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527201

ANALABS

Our reference : BU013786
Your reference : **WCAO 342025**
Project code : Rock Chip
Report date : 28/10/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As	As	
BRC44/0-4	0.01	--	<0.01	<1	N.A.	
BRC44/4-8	0.02	--	<0.01	<1	N.A.	
BRC44/8-12	0.01	--	<0.01	2	N.A.	
BRC44/12-16	0.02	--	<0.01	<1	N.A.	
BRC44/16-20	<0.01	--	<0.01	2	N.A.	
BRC44/20-24	<0.01	--	<0.01	3	N.A.	
BRC44/24-28	0.02	--	<0.01	2	N.A.	
BRC44/28-32	0.17	--	<0.01	3	N.A.	
BRC44/32-36	0.12	0.13	<0.01	2	N.A.	
BRC44/36-40	0.11	--	<0.01	1	N.A.	
BRC44/40-44	0.20	0.20	<0.01	1	N.A.	
BRC44/44-48	0.09	--	<0.01	2	N.A.	
BRC44/48-52	0.05	--	<0.01	2	N.A.	
BRC44/52-56	0.14	--	<0.01	3	N.A.	
BRC44/56-60	0.06	--	<0.01	1	N.A.	
BRC44/60-64	0.06	--	<0.01	1	N.A.	
BRC44/64-68	0.32	--	0.06	N.A.	N.A.	
BRC44/68-72	0.45	--	0.45	N.A.	N.A.	
BRC44/72-76	0.23	--	0.07	N.A.	N.A.	
BRC44/76-80	0.08	--	0.11	36	N.A.	
BRC44/80-84	0.04	--	0.18	23	N.A.	
BRC44/84-88	0.02	--	0.20	N.A.	N.A.	
BRC44/88-92	<0.01	--	0.07	32	N.A.	
BRC44/92-96	<0.01	<0.01	0.11	30	N.A.	
BRC44/96-100	<0.01	--	0.06	37	N.A.	
BRC44/100-104	<0.01	--	0.09	44	N.A.	
BRC44/104-108	0.43	--	0.45	N.A.	N.A.	
BRC44/108-112	0.17	--	0.25	N.A.	N.A.	
BRC44/112-115	0.17	--	0.30	N.A.	N.A.	
MUSEUM 1	1.10	--	4.69	N.A.	N.A.	
MUSEUM 2	0.77	--	0.56	N.A.	0.82	
MUSEUM 3	0.07	--	0.47	N.A.	N.A.	
Method	F630	F630	V821	H102	A103	
Units	ppm	ppm	%	ppm	%	
Detection Limit	0.01	0.01	0.01	1	0.01	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527202

ANALABS

Our reference	: BU013786
Your reference	: **WCAO 342025**
Project code	: Rock Chip
Report date	: 28/10/97
Report status	: Final
Page	: 2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
BRC44/0-4	2	6	<2	<1	<50	
BRC44/4-8	3	8	7	<1	<50	
BRC44/8-12	8	25	27	<1	<50	
BRC44/12-16	13	76	57	<1	<50	
BRC44/16-20	6	8	8	<1	<50	
BRC44/20-24	5	3	10	<1	<50	
BRC44/24-28	4	3	8	<1	<50	
BRC44/28-32	5	6	4	<1	<50	
BRC44/32-36	6	6	7	<1	<50	
BRC44/36-40	9	12	5	<1	<50	
BRC44/40-44	6	9	4	<1	<50	
BRC44/44-48	4	4	5	<1	<50	
BRC44/48-52	4	7	6	<1	<50	
BRC44/52-56	8	7	5	<1	<50	
BRC44/56-60	12	9	6	<1	<50	
BRC44/60-64	12	8	5	<1	<50	
BRC44/64-68	253	15	6	2	73	
BRC44/68-72	1273	24	52	1	3490	
BRC44/72-76	179	16	5	<1	328	
BRC44/76-80	65	34	13	<1	<50	
BRC44/80-84	86	23	17	<1	<50	
BRC44/84-88	39	72	34	<1	60	
BRC44/88-92	47	42	27	<1	<50	
BRC44/92-96	16	37	24	<1	<50	
BRC44/96-100	10	50	23	<1	<50	
BRC44/100-104	9	56	23	<1	<50	
BRC44/104-108	23	77	45	<1	948	
BRC44/108-112	17	91	71	<1	276	
BRC44/112-115	74	90	29	<1	168	
MUSEUM 1	70	389	91	6	864	
MUSEUM 2	421	850	284	13	>5000	
MUSEUM 3	14	18	4	<1	126	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013786 Order number : WCAO 342025

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

Scheme code : G103 - Triple acid digest, Ore Grade samples

Triple acid digest, (HCl,HNO3,HClO4), Ore grade
samples.

Scheme code : A103 - AAS analysis

AAS analysis of sample after G103 digest.

ANALYSIS DESCRIPTION

527204

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013820
Your reference	:	**WCAO 342067**
Project code	:	Diamond Drill Core
Date received	:	14/10/97
Date reported	:	02/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 43
First Sample	: BRC44-28-29
Last Sample	: BRC44-114-115

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
16/10/97 Report
17/10/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527205

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013820
Your reference : **WCAO 342067**
Project code : Diamond Drill Core
Report date : 02/11/97
Report status : Final
Page : 1 of 1

ANALYTICAL DATA

Sample	Au	Au(R)	As	S	As	
BRC44/28-29	0.17	--	<50	<0.01	<1	
BRC44/29-30	0.11	--	<50	<0.01	1	
BRC44/30-31	0.24	--	<50	<0.01	<1	
BRC44/31-32	0.17	--	<50	<0.01	<1	
BRC44/32-33	0.15	--	<50	<0.01	<1	
BRC44/33-34	0.11	0.10	<50	<0.01	1	
BRC44/34-35	0.11	--	<50	<0.01	3	
BRC44/35-36	0.23	--	<50	<0.01	2	
BRC44/36-37	0.06	0.07	<50	<0.01	1	
BRC44/37-38	0.10	--	<50	<0.01	2	
BRC44/38-39	0.19	--	<50	<0.01	2	
BRC44/39-40	0.15	--	<50	<0.01	1	
BRC44/40-41	0.12	--	<50	<0.01	<1	
BRC44/41-42	0.51	--	<50	<0.01	2	
BRC44/42-43	0.10	--	<50	<0.01	1	
BRC44/43-44	0.08	--	<50	<0.01	<1	
BRC44/52-53	0.08	--	<50	<0.01	1	
BRC44/53-54	0.12	--	<50	<0.01	1	
BRC44/54-55	0.21	--	<50	<0.01	1	
BRC44/55-56	0.16	--	<50	<0.01	5	
BRC44/64-65	0.07	--	<50	0.01	3	
BRC44/65-66	0.24	--	<50	0.03	20	
BRC44/66-67	0.53	--	<50	0.06	43	
BRC44/67-68	0.49	--	140	0.14	N.A.	
BRC44/68-69	0.67	--	182	0.76	N.A.	
BRC44/69-70	0.27	--	165	0.20	N.A.	
BRC44/70-71	0.50	--	187	0.91	N.A.	
BRC44/71-72	0.16	--	177	0.05	N.A.	
BRC44/72-73	0.22	--	184	0.06	N.A.	
BRC44/73-74	0.21	--	160	0.04	N.A.	
BRC44/74-75	0.23	--	188	0.17	N.A.	
BRC44/75-76	<0.01	0.01	85	0.04	N.A.	
BRC44/104-105	<0.01	--	73	0.21	N.A.	
BRC44/105-106	0.17	0.17	199	0.99	N.A.	
BRC44/106-107	0.82	--	178	0.69	N.A.	
BRC44/107-108	0.35	--	200	0.31	N.A.	
BRC44/108-109	0.33	--	173	0.34	N.A.	
BRC44/109-110	0.12	--	179	0.20	N.A.	
BRC44/110-111	0.01	--	155	0.30	N.A.	
BRC44/111-112	<0.01	--	118	0.20	N.A.	
BRC44/112-113	0.04	--	89	0.31	N.A.	
BRC44/113-114	0.21	0.21	126	0.35	N.A.	
BRC44/114-115	0.21	--	160	0.21	N.A.	
Method	F630	F630	A102	V821	H102	
Units	ppm	ppm	ppm	%	ppm	
Detection Limit	0.01	0.01	50	0.01	1	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013820 Order number : WCAO 342067

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO_3,$HClO_4$), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527207

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013853
Your reference : **WCAO 342063**
Project code : Diamond Drill Core
Date received : 23/10/97
Date reported : 02/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 8
First Sample : B44-124.6-125.3
Last Sample : B44-130.7-131.8

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
24/10/97 Report
31/10/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527208

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013853
Your reference : **WCAO 342063**
Project code : Diamond Drill Core
Report date : 02/11/97
Report status : Final

ANALYTICAL DATA

Sample	Au	Au(R)	S			
B44/124.6-125.3	0.50	--	0.98			
B44/125.3-126.3	0.98	--	2.63			
B44/126.3-127.3	0.09	--	0.70			
B44/127.3-127.9	0.19	--	5.87			
B44/127.9-128.9	0.45	--	1.25			
B44/128.9-129.6	0.89	--	4.11			
B44/129.6-130.7	0.16	0.15	1.18			
B44/130.7-131.8	0.04	--	0.39			
Method	F630	F630	V821			
Units	ppm	ppm	%			
Detection Limit	0.01	0.01	0.01			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527209

ANALABS

Our reference : BU013853
Your reference : **WCAO 342063**
Project code : Diamond Drill Core
Report date : 02/11/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ag	As	Cu	Pb	Zn	
B44/124.6-125.3	<1	448	4	21	43	
B44/125.3-126.3	<1	2223	4	19	35	
B44/126.3-127.3	<1	213	4	17	33	
B44/127.3-127.9	<1	1095	12	115	111	
B44/127.9-128.9	<1	959	6	47	47	
B44/128.9-129.6	<1	1979	10	136	133	
B44/129.6-130.7	<1	460	9	21	39	
B44/130.7-131.8	<1	85	15	20	32	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	50	2	3	2	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527210

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013853 Order number : WCAO 342063

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

---

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

527211

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	: BU013854
Your reference	: **WCAO 342063**
Project code	: Diamond Drill Core
Date received	: 23/10/97
Date reported	: 02/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 21
First Sample	: BRD28-122-124
Last Sample	: BRD28-162-163.3

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
24/10/97 Report
27/10/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory
for preparation and/or analysis as requested by the client.

527212

A N A L A B S

Our reference	:	BU013854
Your reference	:	**WCAO 342063**
Project code	:	Diamond Drill Core
Report date	:	02/11/97
Report status	:	Final
Page	:	1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	Au(R2)	S	As	
BRD28/122-124	<0.01	--	--	<0.01	<1	
BRD28/124-126	<0.01	--	--	<0.01	1	
BRD28/126-128	0.07	--	--	0.02	5	
BRD28/128-130	0.03	--	--	<0.01	3	
BRD28/130-132	0.04	0.05	--	<0.01	13	
BRD28/132-134	0.01	--	--	<0.01	4	
BRD28/134-136	1.53	0.05	0.04	0.01	8	
BRD28/136-138	0.13	0.14	--	<0.01	<1	
BRD28/138-140	0.05	0.04	--	<0.01	4	
BRD28/140-142	0.02	0.01	--	<0.01	<1	
BRD28/142-144	0.02	--	--	0.01	3	
BRD28/144-146	0.03	--	--	<0.01	2	
BRD28/146-148	0.02	--	--	<0.01	<1	
BRD28/148-150	<0.01	--	--	<0.01	3	
BRD28/150-152	0.16	<0.01	<0.01	<0.01	9	
BRD28/152-154	<0.01	--	--	<0.01	4	
BRD28/154-156	<0.01	--	--	<0.01	2	
BRD28/156-158	<0.01	--	--	<0.01	3	
BRD28/158-160	<0.01	0.01	--	<0.01	3	
BRD28/160-162	<0.01	--	--	<0.01	<1	
BRD28/162-163.3	0.01	--	--	<0.01	5	
Method	F630	F630	F630	V821	H102	
Units	ppm	ppm	ppm	%	ppm	
Detection Limit	0.01	0.01	0.01	0.01	1	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527213

A N A L A B S

Our reference : BU013854
Your reference : **WCAO 342063**
Project code : Diamond Drill Core
Report date : 02/11/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ag	As	Cu	Pb	Zn	
BRD28/122-124	<1	<50	7	8	14	
BRD28/124-126	<1	<50	6	23	17	
BRD28/126-128	<1	<50	5	<3	18	
BRD28/128-130	<1	<50	3	<3	19	
BRD28/130-132	<1	<50	4	3	35	
BRD28/132-134	<1	<50	4	<3	26	
BRD28/134-136	<1	<50	3	<3	24	
BRD28/136-138	<1	<50	3	<3	17	
BRD28/138-140	<1	<50	3	<3	16	
BRD28/140-142	<1	<50	3	<3	13	
BRD28/142-144	<1	<50	3	<3	24	
BRD28/144-146	<1	<50	3	<3	34	
BRD28/146-148	<1	<50	4	<3	28	
BRD28/148-150	<1	<50	4	<3	13	
BRD28/150-152	<1	<50	3	<3	7	
BRD28/152-154	<1	<50	4	<3	23	
BRD28/154-156	<1	<50	3	5	7	
BRD28/156-158	<1	<50	3	<3	13	
BRD28/158-160	<1	<50	4	<3	12	
BRD28/160-162	<1	<50	3	<3	12	
BRD28/162-163.3	<1	<50	4	<3	22	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	50	2	3	2	

Notes: N.A. = not analysed, – = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527214

ANALABS

Our reference : BU013783
Your reference : **WCAO342024**
Project code : Diamond Drill Core
Report date : 17/10/97
Report status : Final
Page : 1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC43/00-04	0.01	--	<50	3		
BRC43/04-08	<0.01	<0.01	<50	2		
BRC43/08-12	<0.01	--	<50	2		
BRC43/12-16	<0.01	--	<50	2		
BRC43/16-20	0.01	--	<50	2		
BRC43/20-24	0.03	0.03	<50	3		
BRC43/24-28	0.26	--	<50	2		
BRC43/28-32	0.35	0.33	<50	4		
BRC43/32-36	1.37	1.43	<50	18		
BRC43/41-43	1.82	--	<50	3		
BRC43/43-44	0.87	--	<50	2		
VENT 1	0.18	--	<50	1		
VENT 2	0.01	--	<50	9		
VENT 3	<0.01	--	<50	2		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013783 Order number : WCAO342024

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO_3,$HClO_4$), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527216

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013786
Your reference : **WCAO 342025**
Project code : Rock Chip
Date received : 07/10/97
Date reported : 28/10/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 32
First Sample : BRC44-0-4
Last Sample : MUSEUM 3

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
10/10/97 Report
28/10/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527217

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013875
Your reference	:	**WCAO 342061**
Project code	:	Whole Core
Date received	:	27/10/97
Date reported	:	07/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 25
First Sample	: B44-99.5-100.5
Last Sample	: B44-123.5-124.6

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :

30/10/97	Report
31/10/97	Report
06/11/97	Report
06/11/97	Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527218

ANALABS

Our reference	:	BU013875
Your reference	:	**WCAO 342061**
Project code	:	Whole Core
Report date	:	07/11/97
Report status	:	Final
Page	:	1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B44/99.5-100.5	0.30	0.28	2.81	N.A.		
B44/100.5-101.5	0.02	--	1.28	N.A.		
B44/101.5-102.5	<0.01	--	0.65	24		
B44/102.5-103.5	0.01	--	0.31	20		
B44/103.5-104.5	<0.01	--	0.37	13		
B44/104.5-105.5	<0.01	--	0.31	30		
B44/105.5-106.5	<0.01	<0.01	0.16	18		
B44/106.5-107.5	0.01	--	0.25	14		
B44/107.5-108.5	<0.01	<0.01	0.27	13		
B44/108.5-109.5	<0.01	--	0.56	15		
B44/109.5-110.5	<0.01	--	0.45	13		
B44/110.5-111.5	0.01	--	0.42	14		
B44/111.5-112.5	0.03	--	0.23	20		
B44/112.5-113.5	<0.01	--	0.38	8		
B44/113.5-114.5	<0.01	--	0.13	4		
B44/114.5-115.5	<0.01	--	0.11	12		
B44/115.5-116.5	<0.01	--	0.14	17		
B44/116.5-117.5	0.13	0.15	0.70	N.A.		
B44/117.5-118.5	0.20	0.21	0.60	N.A.		
B44/118.5-119.5	0.31	0.35	0.42	N.A.		
B44/119.5-120.5	<0.01	--	0.15	18		
B44/120.5-121.5	0.01	--	0.90	12		
B44/121.5-122.5	0.02	0.02	0.24	24		
B44/122.5-123.5	<0.01	--	0.15	14		
B44/123.5-124.6	0.04	0.05	0.16	24		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527219

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ag	Cu	Pb	Zn	As	
B44/99.5-100.5	2	12	58	98	1148	
B44/100.5-101.5	1	7	16	28	82	
B44/101.5-102.5	1	7	29	38	<50	
B44/102.5-103.5	<1	10	20	35	<50	
B44/103.5-104.5	1	16	52	103	<50	
B44/104.5-105.5	1	11	19	67	<50	
B44/105.5-106.5	1	10	23	47	<50	
B44/106.5-107.5	1	16	22	61	<50	
B44/107.5-108.5	1	19	20	55	<50	
B44/108.5-109.5	1	12	18	80	<50	
B44/109.5-110.5	1	8	19	55	<50	
B44/110.5-111.5	1	8	14	28	<50	
B44/111.5-112.5	1	7	13	28	<50	
B44/112.5-113.5	1	6	12	29	<50	
B44/113.5-114.5	1	8	24	30	<50	
B44/114.5-115.5	1	5	18	26	<50	
B44/115.5-116.5	1	8	144	52	<50	
B44/116.5-117.5	1	14	20	61	72	
B44/117.5-118.5	1	9	7	36	417	
B44/118.5-119.5	1	11	9	22	388	
B44/119.5-120.5	1	8	15	27	<50	
B44/120.5-121.5	1	7	8	21	<50	
B44/121.5-122.5	1	7	13	18	<50	
B44/122.5-123.5	1	7	10	20	<50	
B44/123.5-124.6	1	9	15	26	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	2	3	2	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527220

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013875 Order number : WCAO 342061

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527221

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013879
Your reference : **WCAO342060**
Project code : Diamond Drill Core
Date received : 28/10/97
Date reported : 06/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 26
First Sample : B44-134.8-135.8
Last Sample : BRC43-41-42

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
04/11/97 Report
05/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527222

ANALABS

Our reference	: BU013879
Your reference	: **WCAO342060**
Project code	: Diamond Drill Core
Report date	: 06/11/97
Report status	: Final
Page	: 1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B44/134.8-135.8	0.47	0.50	0.51	N.A.		
B44/135.8-136.8	0.71	--	0.64	N.A.		
B44/136.8-137.8	0.44	0.47	0.53	N.A.		
B44/137.8-138.8	1.24	--	1.43	N.A.		
B44/138.8-139.8	2.33	2.31	1.45	N.A.		
B44/139.8-140.8	2.58	--	2.67	N.A.		
B44/140.8-141.7	1.29	--	1.11	N.A.		
B44/141.7-142.7	0.66	0.64	0.71	N.A.		
B44/142.7-143.7	1.05	1.07	0.92	N.A.		
B44/143.7-144.7	0.70	--	0.92	N.A.		
B44/144.7-145.7	0.43	--	0.42	N.A.		
B44/145.7-146.7	0.82	--	0.72	N.A.		
B44/146.7-147.7	0.20	--	0.36	N.A.		
B44/147.7-148.7	0.04	--	0.40	14		
B44/148.7-149.6	0.32	--	0.68	N.A.		
B44/149.6-150.3	0.47	0.50	0.80	N.A.		
B44/150.3-151.0	0.08	--	2.04	N.A.		
B44/151.0-151.7	0.07	--	1.79	13		
B44/151.7-152.5	0.62	--	0.71	N.A.		
B44/152.5-153.2	0.21	--	0.45	N.A.		
BRC43/31-32	0.97	--	N.A.	N.A.		
BRC43/32-33	8.31	--	N.A.	N.A.		
BRC43/33-34	2.47	--	N.A.	N.A.		
BRC43/34-35	2.57	--	N.A.	N.A.		
BRC43/35-36	2.27	--	N.A.	N.A.		
BRC43/41-42	3.14	--	N.A.	N.A.		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013854 Order number : WCAO 342063

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

52722 1

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013858
Your reference	:	**WCAO 342062**
Project code	:	Diamond Drill Core
Date received	:	24/10/97
Date reported	:	02/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 48
First Sample	: B44-28.7-30.0
Last Sample	: B44-98.5-99.5

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
29/10/97 Report
31/10/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527225

ANALABS

Our reference : BU013858
Your reference : **WCAO 342062**
Project code : Diamond Drill Core
Report date : 02/11/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B44/28.7-30.0	<0.01	--	0.02	1		
B44/30.0-31.5	<0.01	--	0.04	<1		
B44/31.5-33.0	0.01	--	0.05	<1		
B44/33.0-34.5	0.01	--	0.06	2		
B44/34.5-36.0	0.02	--	0.04	<1		
B44/36.0-37.5	0.03	0.02	0.02	6		
B44/37.5-38.5	0.02	--	0.02	10		
B44/38.5-40.0	0.06	0.07	1.06	4		
B44/40.0-41.5	0.02	0.01	0.40	4		
B44/41.5-43.0	0.01	--	0.08	3		
B44/43.0-44.5	<0.01	--	0.07	4		
B44/44.5-46.0	<0.01	--	0.57	2		
B44/46.0-47.5	<0.01	--	0.19	13		
B44/47.5-49.0	<0.01	--	0.28	31		
B44/49.0-50.5	<0.01	--	0.32	32		
B44/50.5-52.0	<0.01	--	0.60	22		
B44/52.0-53.5	0.05	0.05	0.38	42		
B44/53.5-55.0	<0.01	--	0.20	17		
B44/55.0-56.5	<0.01	<0.01	0.32	34		
B44/56.5-58.0	<0.01	--	0.48	47		
B44/58.0-59.5	<0.01	<0.01	0.07	9		
B44/59.5-61.0	<0.01	--	0.05	5		
B44/61.0-62.5	<0.01	--	0.10	7		
B44/62.5-64.0	<0.01	--	0.17	4		
B44/64.0-65.5	<0.01	--	0.08	11		
B44/65.5-67.0	0.12	0.12	0.29	N.A.		
B44/67.0-68.5	0.14	0.13	0.20	3		
B44/68.5-70.0	<0.01	--	0.11	33		
B44/70.0-71.5	0.04	--	0.16	N.A.		
B44/71.5-73.0	0.20	0.20	0.30	N.A.		
B44/73.0-74.5	0.35	0.34	0.36	12		
B44/74.5-76.0	<0.01	--	0.13	9		
B44/76.0-77.5	<0.01	--	0.81	6		
B44/77.5-79.0	<0.01	<0.01	0.12	5		
B44/79.0-80.5	<0.01	--	0.11	7		
B44/80.5-82.0	<0.01	--	0.21	6		
B44/82.0-83.5	<0.01	--	0.15	10		
B44/83.5-85.0	<0.01	--	0.26	12		
B44/85.0-86.5	<0.01	--	0.31	14		
B44/86.5-88.0	<0.01	--	0.23	5		
B44/88.0-89.5	0.01	--	0.35	8		
B44/89.5-91.0	<0.01	--	0.28	9		
B44/91.0-92.5	<0.01	--	0.62	7		
B44/92.5-94.0	<0.01	--	0.27	9		
B44/94.0-95.5	<0.01	--	0.25	15		
B44/95.5-97.0	<0.01	<0.01	0.17	10		
B44/97.0-98.5	<0.01	--	0.20	11		
B44/98.5-99.5	<0.01	--	0.27	20		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527226

ANALABS

Our reference	: BU013858
Your reference	: **WCAO 342062**
Project code	: Diamond Drill Core
Report date	: 02/11/97
Report status	: Final
Page	: 2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ag	As	Cu	Pb	Zn	
B44/28.7-30.0	<1	<50	4	<3	13	
B44/30.0-31.5	<1	<50	2	<3	14	
B44/31.5-33.0	<1	<50	5	<3	12	
B44/33.0-34.5	<1	<50	3	<3	25	
B44/34.5-36.0	<1	<50	22	<3	50	
B44/36.0-37.5	<1	<50	3	4	26	
B44/37.5-38.5	<1	<50	4	<3	33	
B44/38.5-40.0	<1	<50	21	10	16	
B44/40.0-41.5	<1	<50	12	10	2	
B44/41.5-43.0	<1	<50	9	6	3	
B44/43.0-44.5	<1	<50	18	<3	6	
B44/44.5-46.0	<1	<50	7	24	26	
B44/46.0-47.5	<1	<50	6	22	10	
B44/47.5-49.0	<1	<50	8	11	6	
B44/49.0-50.5	<1	<50	10	34	31	
B44/50.5-52.0	<1	<50	10	31	25	
B44/52.0-53.5	<1	<50	7	43	17	
B44/53.5-55.0	<1	<50	7	30	12	
B44/55.0-56.5	<1	<50	12	29	35	
B44/56.5-58.0	<1	<50	18	7	71	
B44/58.0-59.5	<1	<50	9	8	53	
B44/59.5-61.0	<1	<50	4	17	51	
B44/61.0-62.5	<1	<50	7	16	40	
B44/62.5-64.0	<1	<50	8	21	35	
B44/64.0-65.5	<1	<50	7	38	23	
B44/65.5-67.0	<1	224	8	46	22	
B44/67.0-68.5	<1	<50	7	45	29	
B44/68.5-70.0	<1	<50	5	26	14	
B44/70.0-71.5	<1	66	8	43	28	
B44/71.5-73.0	<1	109	9	27	29	
B44/73.0-74.5	<1	<50	8	62	45	
B44/74.5-76.0	<1	<50	4	76	42	
B44/76.0-77.5	<1	<50	6	54	34	
B44/77.5-79.0	<1	<50	5	48	32	
B44/79.0-80.5	<1	<50	5	22	25	
B44/80.5-82.0	<1	<50	5	54	24	
B44/82.0-83.5	<1	<50	7	54	21	
B44/83.5-85.0	3	<50	23	11	52	
B44/85.0-86.5	1	<50	30	15	64	
B44/86.5-88.0	<1	<50	19	11	95	
B44/88.0-89.5	<1	<50	8	5	17	
B44/89.5-91.0	<1	<50	6	13	27	
B44/91.0-92.5	<1	<50	16	9	73	
B44/92.5-94.0	1	<50	21	<3	79	
B44/94.0-95.5	<1	<50	20	5	68	
B44/95.5-97.0	<1	<50	6	<3	109	
B44/97.0-98.5	<1	<50	6	7	69	
B44/98.5-99.5	<1	<50	5	<3	46	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	50	2	3	2	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013858 Order number : WCAO 342062

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527228

ANALABS

Our reference : BU013879
Your reference : **WCAO342060**
Project code : Diamond Drill Core
Report date : 06/11/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ag	Cu	Pb	Zn	As	
B44/134.8-135.8	2	9	5	58	567	
B44/135.8-136.8	1	7	<3	36	832	
B44/136.8-137.8	1	7	<3	34	226	
B44/137.8-138.8	2	7	12	972	1386	
B44/138.8-139.8	1	6	7	27	2639	
B44/139.8-140.8	1	8	35	59	4108	
B44/140.8-141.7	1	9	143	1950	1186	
B44/141.7-142.7	1	5	42	44	821	
B44/142.7-143.7	1	6	<3	20	1079	
B44/143.7-144.7	1	6	9	17	432	
B44/144.7-145.7	1	7	5	17	651	
B44/145.7-146.7	1	7	23	30	870	
B44/146.7-147.7	1	8	16	34	122	
B44/147.7-148.7	1	7	<3	22	<50	
B44/148.7-149.6	1	41	81	68	54	
B44/149.6-150.3	1	9	<3	17	219	
B44/150.3-151.0	1	10	25	17	54	
B44/151.0-151.7	1	11	9	48	<50	
B44/151.7-152.5	1	8	<3	21	174	
B44/152.5-153.2	1	9	<3	19	145	
BRC43/31-32	N.A.	N.A.	N.A.	N.A.	N.A.	
BRC43/32-33	N.A.	N.A.	N.A.	N.A.	N.A.	
BRC43/33-34	N.A.	N.A.	N.A.	N.A.	N.A.	
BRC43/34-35	N.A.	N.A.	N.A.	N.A.	N.A.	
BRC43/35-36	N.A.	N.A.	N.A.	N.A.	N.A.	
BRC43/41-42	N.A.	N.A.	N.A.	N.A.	N.A.	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	2	3	2	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527229

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013879 Order number : WCAO342060

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

---

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527230

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013899
Your reference	:	**WCAO 342059**
Project code	:	Daimond Drill Core
Date received	:	30/10/97
Date reported	:	11/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 30
First Sample	: B44-153.2-154.3
Last Sample	: B44-237.8-239.6

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
07/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527231

ANALABS

Our reference : BU013899
Your reference : **WCAO 342059**
Project code : Daimond Drill Core
Report date : 11/11/97
Report status : Final
Page : 1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B44/153.2-154.3	<0.01	--	0.78	32		
B44/154.3-155.4	<0.01	--	0.59	34		
B44/155.4-156.5	<0.01	--	0.36	32		
B44/156.5-157.5	0.05	0.04	0.28	N.A.		
B44/157.5-158.3	<0.01	--	0.14	N.A.		
B44/158.3-159.1	0.08	0.08	0.40	N.A.		
B44/159.1-160.5	0.04	--	0.31	N.A.		
B44/160.5-162.0	<0.01	--	0.39	9		
B44/162.0-163.5	0.02	0.02	0.51	34		
B44/163.5-165.0	0.01	--	0.43	29		
B44/165.0-166.5	0.02	--	0.66	N.A.		
B44/166.5-168.5	0.01	<0.01	0.22	3		
B44/168.0-169.5	<0.01	--	0.24	17		
B44/169.5-171.0	0.04	0.04	0.14	15		
B44/171.0-172.5	<0.01	--	0.14	12		
B44/172.5-173.5	<0.01	--	0.12	15		
B44/173.5-174.6	0.05	0.03	0.54	N.A.		
B44/174.6-176.0	<0.01	--	0.13	7		
B44/176.0-177.5	<0.01	--	0.10	17		
B44/177.5-179.0	<0.01	--	0.07	20		
B44/179.0-180.5	<0.01	--	0.12	15		
B44/180.5-182.0	<0.01	<0.01	0.26	19		
B44/182.0-183.5	<0.01	--	0.35	41		
B44/183.5-185.0	<0.01	--	0.06	27		
B44/185.0-186.5	<0.01	--	0.07	N.A.		
B44/131.8-132.8	0.01	--	0.27	40		
B44/132.8-133.8	0.03	0.02	0.36	17		
B44/133.8-134.8	0.81	0.80	0.52	N.A.		
B44/200.2-200.9	0.01	--	2.26	N.A.		
B44/237.8-239.6	<0.01	--	<0.01	1		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527232

A N A L A B S

Our reference	:	BU013899
Your reference	:	**WCAO 342059**
Project code	:	Daimond Drill Core
Report date	:	11/11/97
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ag	Cu	Pb	Zn	As	
B44/153.2-154.3	<1	7	11	42	<50	
B44/154.3-155.4	<1	6	20	46	<50	
B44/155.4-156.5	<1	13	9	53	<50	
B44/156.5-157.5	<1	9	3	26	81	
B44/157.5-158.3	<1	7	6	31	54	
B44/158.3-159.1	<1	5	7	28	134	
B44/159.1-160.5	<1	7	<3	26	51	
B44/160.5-162.0	<1	6	3	37	<50	
B44/162.0-163.5	<1	6	<3	20	<50	
B44/163.5-165.0	<1	5	4	24	<50	
B44/165.0-166.5	<1	8	8	32	64	
B44/166.5-168.5	<1	6	7	34	<50	
B44/168.0-169.5	<1	7	6	36	<50	
B44/169.5-171.0	<1	4	<3	36	<50	
B44/171.0-172.5	<1	4	9	35	<50	
B44/172.5-173.5	<1	5	12	37	<50	
B44/173.5-174.6	<1	5	4	21	57	
B44/174.6-176.0	<1	5	7	74	<50	
B44/176.0-177.5	<1	4	5	78	<50	
B44/177.5-179.0	<1	5	11	39	<50	
B44/179.0-180.5	<1	7	<3	37	<50	
B44/180.5-182.0	<1	5	<3	38	<50	
B44/182.0-183.5	<1	6	4	40	<50	
B44/183.5-185.0	<1	4	<3	33	<50	
B44/185.0-186.5	<1	9	<3	34	56	
B44/131.8-132.8	<1	4	5	27	<50	
B44/132.8-133.8	<1	7	11	40	<50	
B44/133.8-134.8	<1	6	<3	27	278	
B44/200.2-200.9	<1	6	<3	34	55	
B44/237.8-239.6	<1	5	3	25	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	2	3	2	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013899 Order number : WCAO 342059

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527234

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013939
Your reference : **WCAO 342055**
Project code : Diamond Drill Core
Date received : 11/11/97
Date reported : 14/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 1
Number of Samples : 12
First Sample : BRC46-00-04
Last Sample : BRC46-44-48

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527235

ANALABS

Our reference : BU013939
Your reference : **WCAO 342055**
Project code : Diamond Drill Core
Report date : 14/11/97
Report status : Final
Page : 1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC46/00-04	0.01	<0.01	<50	<1		
BRC46/04-08	0.01	--	<50	<1		
BRC46/08-12	<0.01	--	<50	1		
BRC46/12-16	<0.01	--	<50	1		
BRC46/16-20	0.03	0.02	<50	<1		
BRC46/20-24	0.16	0.14	<50	<1		
BRC46/24-28	0.29	0.28	<50	<1		
BRC46/28-32	0.55	--	<50	<1		
BRC46/32-36	0.08	0.07	<50	<1		
BRC46/36-40	0.22	--	<50	5		
BRC46/40-44	0.21	--	<50	<1		
BRC46/44-48	0.14	0.14	<50	<1		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527236

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013939 Order number : WCAO 342055

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527237

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013943
Your reference : **WCAO 342054**
Project code : Diamond Drill Core
Date received : 12/11/97
Date reported : 21/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 1
Number of Samples : 12
First Sample : BRC45-00-04
Last Sample : BRC45-44-47

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
18/11/97 Report
18/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527238

ANALABS

Our reference : BU013943
Your reference : **WCAO 342054**
Project code : Diamond Drill Core
Report date : 21/11/97
Report status : Final
Page : 1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC45/00-04	<0.01	--	<50	1		
BRC45/04-08	<0.01	--	<50	1		
BRC45/08-12	<0.01	--	<50	2		
BRC45/12-16	<0.01	<0.01	<50	<1		
BRC45/16-20	0.02	0.01	<50	1		
BRC45/20-24	0.08	--	<50	<1		
BRC45/24-28	0.12	0.11	<50	<1		
BRC45/28-32	0.07	--	<50	5		
BRC45/32-36	0.03	0.04	<50	2		
BRC45/36-40	0.01	--	<50	4		
BRC45/40-44	0.05	0.06	<50	<1		
BRC45/44-47	0.04	--	<50	<1		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013943 Order number : WCAO 342054

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527240

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013949
Your reference	:	**WCAO 342052**
Project code	:	
Date received	:	13/11/97
Date reported	:	21/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 18
First Sample	: BRC47-00-04
Last Sample	: BRC47-68-71

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :

18/11/97 Report
18/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

507241

ANALABS

Our reference	:	BU013949
Your reference	:	**WCAO 342052**
Project code	:	
Report date	:	21/11/97
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC47/00-04	<0.01	--	<50	3		
BRC47/04-08	<0.01	--	<50	<1		
BRC47/08-12	<0.01	--	<50	2		
BRC47/12-16	<0.01	--	<50	<1		
BRC47/16-20	0.01	0.01	<50	2		
BRC47/20-24	0.01	--	<50	3		
BRC47/24-28	0.01	--	<50	4		
BRC47/28-32	<0.01	--	<50	1		
BRC47/32-36	<0.01	<0.01	<50	1		
BRC47/36-40	0.01	--	<50	1		
BRC47/40-44	0.01	0.01	<50	2		
BRC47/44-48	<0.01	--	<50	1		
BRC47/48-52	<0.01	--	<50	<1		
BRC47/52-56	<0.01	0.01	<50	1		
BRC47/56-60	0.19	0.18	<50	2		
BRC47/60-64	0.09	0.10	<50	1		
BRC47/64-68	0.16	0.17	<50	<1		
BRC47/68-71	0.16	0.15	<50	<1		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013949 Order number : WCAO 342052

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527243

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013951
Your reference : **WCAO 342026**
Project code : RC
Date received : 14/11/97
Date reported : 21/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 1
Number of Samples : 8
First Sample : BRC48 00-04
Last Sample : BRC48 28-32

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
18/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527244

A N A L A B S

Our reference : BU013951
Your reference : **WCAO 342026**
Project code : RC
Report date : 21/11/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC48 00-04	<0.01	0.01	<50	2		
BRC48 04-08	<0.01	<0.01	<50	1		
BRC48 08-12	<0.01	--	<50	<1		
BRC48 12-16	<0.01	--	<50	<1		
BRC48 16-20	<0.01	--	<50	12		
BRC48 20-24	<0.01	<0.01	<50	13		
BRC48 24-28	<0.01	--	<50	17		
BRC48 28-32	0.30	0.29	50	N.A.		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527245

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013951 Order number : WCAO 342026

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527246

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013957
Your reference	:	**WCAO 342027**
Project code	:	BRC 49
Date received	:	17/11/97
Date reported	:	21/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 12
First Sample	: BRC49-00-04
Last Sample	: BRC49-44-48

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
20/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527247

ANALABS

Our reference	:	BU013957
Your reference	:	**WCAO 342027**
Project code	:	BRC 49
Report date	:	21/11/97
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC49/00-04	<0.01	--	<50	<1		
BRC49/04-08	<0.01	<0.01	<50	<1		
BRC49/08-12	<0.01	--	<50	<1		
BRC49/12-16	<0.01	--	<50	5		
BRC49/16-20	<0.01	--	<50	6		
BRC49/20-24	<0.01	--	64	N.A.		
BRC49/24-28	<0.01	--	52	N.A.		
BRC49/28-32	0.01	--	<50	35		
BRC49/32-36	<0.01	<0.01	<50	19		
BRC49/36-40	<0.01	--	<50	3		
BRC49/40-44	<0.01	--	<50	11		
BRC49/44-48	0.01	--	<50	37		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU013957 Order number : WCAO 342027

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

---

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527249

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU013963
Your reference	:	**WCAO342029**
Project code	:	Diamond Drill Core
Date received	:	18/11/97
Date reported	:	21/11/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 11
First Sample	: BRC50-00-04
Last Sample	: BRC50-40-42

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :
20/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

A subsidiary of Scientific Services Limited

527250

A N A L A B S

Our reference	:	BU013963
Your reference	:	**WCAO342029**
Project code	:	Diamond Drill Core
Report date	:	21/11/97
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC50/00-04	0.01	--	<50	2		
BRC50/04-08	0.03	--	<50	3		
BRC50/08-12	0.01	--	<50	3		
BRC50/12-16	0.01	--	<50	3		
BRC50/16-20	<0.01	--	<50	2		
BRC50/20-24	0.01	--	<50	<1		
BRC50/24-28	0.01	--	<50	2		
BRC50/28-32	0.01	--	<50	8		
BRC50/32-36	<0.01	0.01	<50	33		
BRC50/36-40	0.07	0.06	<50	27		
BRC50/40-42	<0.01	--	<50	26		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013963 Order number : WCAO342029

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

---

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527252

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013972
Your reference : **WCAO342051**
Project code : RC Chips
Date received : 19/11/97
Date reported : 01/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 38
First Sample : BRC51-00-04
Last Sample : BRC46-47-48

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
27/11/97 Report
01/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527253

ANALABS

Our reference	:	BU013972
Your reference	:	**WCAO342051**
Project code	:	RC Chips
Report date	:	01/12/97
Report status	:	Final
Page	:	1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
BRC51/00-04	<0.01	--	N.A.	5		
BRC51/04-08	<0.01	--	N.A.	3		
BRC51/08-12	0.37	0.35	N.A.	3		
BRC51/12-16	0.17	0.16	N.A.	3		
BRC51/16-20	0.08	--	N.A.	9		
BRC51/20-24	0.04	--	N.A.	5		
BRC51/24-28	0.03	--	N.A.	4		
BRC51/28-32	0.04	--	N.A.	2		
BRC51/32-36	0.07	--	N.A.	3		
BRC51/36-40	0.07	--	N.A.	7		
BRC51/40-44	0.09	0.08	N.A.	4		
BRC51/44-48	0.07	--	N.A.	11		
BRC51/48-52	0.06	--	N.A.	4		
BRC51/52-53	0.18	--	N.A.	4		
BRC46/20-21	0.23	0.22	<0.01	5		
BRC46/21-22	0.16	--	<0.01	3		
BRC46/22-23	0.14	0.14	<0.01	2		
BRC46/23-24	0.11	--	<0.01	5		
BRC46/24-25	0.13	--	<0.01	7		
BRC46/25-26	0.22	0.22	<0.01	6		
BRC46/26-27	0.35	0.38	<0.01	<1		
BRC46/27-28	0.32	--	<0.01	<1		
BRC46/28-29	0.33	--	<0.01	1		
BRC46/29-30	0.54	0.57	<0.01	3		
BRC46/30-31	0.17	--	<0.01	2		
BRC46/31-32	0.33	--	<0.01	1		
BRC46/36-37	0.13	0.15	<0.01	4		
BRC46/37-38	0.16	--	<0.01	1		
BRC46/38-39	0.15	--	<0.01	<1		
BRC46/39-40	0.28	--	<0.01	1		
BRC46/40-41	0.04	--	<0.01	<1		
BRC46/41-42	0.26	0.28	<0.01	3		
BRC46/42-43	0.24	0.25	<0.01	<1		
BRC46/43-44	0.30	0.27	<0.01	4		
BRC46/44-45	0.42	0.42	<0.01	2		
BRC46/45-46	0.12	--	<0.01	1		
BRC46/46-47	0.08	--	<0.01	<1		
BRC46/47-48	0.06	--	<0.01	10		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527254

A N A L A B S

Our reference : BU013972
Your reference : **WCAO342051**
Project code : RC Chips
Report date : 01/12/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
BRC51/00-04	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/04-08	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/08-12	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/12-16	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/16-20	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/20-24	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/24-28	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/28-32	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/32-36	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/36-40	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/40-44	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/44-48	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/48-52	N.A.	N.A.	N.A.	N.A.	<50	
BRC51/52-53	N.A.	N.A.	N.A.	N.A.	<50	
BRC46/20-21	5	5	5	<1	<50	
BRC46/21-22	5	<3	4	<1	<50	
BRC46/22-23	4	<3	8	<1	<50	
BRC46/23-24	6	<3	11	<1	<50	
BRC46/24-25	5	19	9	<1	<50	
BRC46/25-26	5	13	7	<1	<50	
BRC46/26-27	5	3	4	<1	<50	
BRC46/27-28	5	8	8	<1	<50	
BRC46/28-29	6	4	4	<1	<50	
BRC46/29-30	7	9	9	<1	<50	
BRC46/30-31	7	7	9	<1	<50	
BRC46/31-32	8	<3	10	<1	<50	
BRC46/36-37	6	<3	10	<1	<50	
BRC46/37-38	10	<3	7	<1	<50	
BRC46/38-39	7	4	6	<1	<50	
BRC46/39-40	8	4	8	<1	<50	
BRC46/40-41	8	<3	5	<1	<50	
BRC46/41-42	7	<3	6	<1	<50	
BRC46/42-43	9	<3	5	<1	<50	
BRC46/43-44	6	<3	4	<1	<50	
BRC46/44-45	6	<3	9	<1	<50	
BRC46/45-46	6	<3	11	<1	<50	
BRC46/46-47	7	<3	9	<1	<50	
BRC46/47-48	6	<3	10	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013972 Order number : WCAO342051

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527256

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013977
Your reference : **WCAO 342050**
Project code : R/C Pulp
Date received : 20/11/97
Date reported : 03/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 1
Number of Samples : 11
First Sample : BRC52-00-04
Last Sample : BRC52-40-42

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
21/11/97 Report
03/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory
for preparation and/or analysis as requested by the client.

527257

ANALABS

Our reference : BU013977
Your reference : **WCAO 342050**
Project code : R/C Pulp
Report date : 03/12/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	As	As			
BRC52/00-04	<0.01	<50	1			
BRC52/04-08	<0.01	<50	7			
BRC52/08-12	<0.01	<50	4			
BRC52/12-16	<0.01	<50	3			
BRC52/16-20	<0.01	<50	1			
BRC52/20-24	<0.01	<50	<1			
BRC52/24-28	<0.01	<50	5			
BRC52/28-32	<0.01	<50	2			
BRC52/32-36	<0.01	<50	<1			
BRC52/36-40	<0.01	<50	49			
BRC52/40-42	<0.01	200	N.A.			
Method	F630	A102	H102			
Units	ppm	ppm	ppm			
Detection Limit	0.01	50	1			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013977 Order number : WCAO 342050

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527260

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013983
Your reference : **WCAO342049**
Project code : Diamond Drill Core
Date received : 21/11/97
Date reported : 05/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 1
Number of Samples : 14
First Sample : BRC53-00-04
Last Sample : BRC53-52-54

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
27/11/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527260

A N A L A B S

Our reference : BU013983
Your reference : **WCAO342049**
Project code : Diamond Drill Core
Report date : 05/12/97
Report status : Final
Page : 1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC53/00-04	0.59	0.63	173	N.A.		
BRC53/04-08	0.84	0.82	289	N.A.		
BRC53/08-12	0.03	0.03	250	N.A.		
BRC53/12-16	<0.01	0.01	57	N.A.		
BRC53/16-20	<0.01	--	<50	28		
BRC53/20-24	<0.01	--	502	N.A.		
BRC53/24-28	<0.01	<0.01	<50	22		
BRC53/28-32	<0.01	--	<50	30		
BRC53/32-36	<0.01	<0.01	<50	4		
BRC53/36-40	<0.01	--	<50	3		
BRC53/40-44	<0.01	--	<50	37		
BRC53/44-48	<0.01	--	<50	9		
BRC53/48-52	<0.01	--	<50	26		
BRC53/52-54	<0.01	--	<50	21		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013983 Order number : WCAO342049

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527262

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013991
Your reference : **WCAO342030**
Project code : Diamond Drill Core
Date received : 24/11/97
Date reported : 01/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 23
First Sample : B44A-123.5-125.0
Last Sample : B44A-156.2-157.7

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
27/11/97 Report
01/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527263

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU013991
Your reference : **WCAO342030**
Project code : Diamond Drill Core
Report date : 01/12/97
Report status : Final

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B44A/123.5-125.0	0.93	0.92	1.21	1		
B44A/125.0-126.5	0.28	--	0.89	13		
B44A/126.5-127.8	0.43	--	2.19	N.A.		
B44A/127.8-129.5	0.19	--	0.73	20		
B44A/129.5-131.0	0.30	0.32	0.86	N.A.		
B44A/131.0-132.5	0.29	--	0.66	N.A.		
B44A/132.5-134.0	0.21	--	0.29	N.A.		
B44A/134.0-135.5	0.36	--	0.39	37		
B44A/135.5-137.0	3.50	3.55	1.19	N.A.		
B44A/137.0-138.5	0.48	--	0.85	N.A.		
B44A/138.5-140.0	0.22	--	0.44	N.A.		
B44A/140.0-141.5	1.49	1.57	1.82	N.A.		
B44A/141.5-143.0	0.16	--	0.63	N.A.		
B44A/143.0-144.5	0.14	--	0.94	N.A.		
B44A/144.5-146.0	0.06	0.05	3.56	N.A.		
B44A/146.0-147.5	0.02	--	1.48	N.A.		
B44A/147.5-149.0	0.01	--	0.18	22		
B44A/149.0-150.5	0.13	--	1.83	N.A.		
B44A/150.5-152.0	0.17	--	0.58	N.A.		
B44A/152.0-153.3	0.06	--	0.56	4		
B44A/153.3-154.8	0.01	0.01	0.37	21		
B44A/154.8-156.2	0.16	--	0.42	29		
B44A/156.2-157.7	0.02	--	0.35	47		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527264

ANALABS

Our reference	:	BU013991
Your reference	:	**WCAO342030**
Project code	:	Diamond Drill Core
Report date	:	01/12/97
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
B44A/123.5-125.0	16	11	18	<1	<50	
B44A/125.0-126.5	6	10	16	<1	<50	
B44A/126.5-127.8	7	28	29	<1	135	
B44A/127.8-129.5	7	10	46	<1	<50	
B44A/129.5-131.0	7	11	48	<1	730	
B44A/131.0-132.5	6	6	46	<1	124	
B44A/132.5-134.0	5	<3	28	<1	425	
B44A/134.0-135.5	6	<3	62	<1	<50	
B44A/135.5-137.0	9	13	35	<1	2874	
B44A/137.0-138.5	22	49	313	<1	612	
B44A/138.5-140.0	8	121	145	<1	127	
B44A/140.0-141.5	7	220	176	<1	833	
B44A/141.5-143.0	6	48	31	<1	58	
B44A/143.0-144.5	5	94	23	<1	121	
B44A/144.5-146.0	7	693	48	<1	53	
B44A/146.0-147.5	7	4	29	<1	51	
B44A/147.5-149.0	6	<3	32	<1	<50	
B44A/149.0-150.5	9	172	88	<1	358	
B44A/150.5-152.0	6	6	22	<1	115	
B44A/152.0-153.3	5	7	28	<1	<50	
B44A/153.3-154.8	7	12	23	<1	<50	
B44A/154.8-156.2	6	4	27	<1	<50	
B44A/156.2-157.7	6	3	16	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527265

ANALABS

ANALYSIS DESCRIPTION

Job number : BU013991 Order number : WCAO342030

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527266

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014002
Your reference	:	**WCAO342031**
Project code	:	Diamond Drill Core
Date received	:	25/11/97
Date reported	:	05/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 14
First Sample	: BRC54-00-04
Last Sample	: BRC54-52-53

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
01/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527867

A N A L A B S

Our reference	: BU014002
Your reference	: **WCAO342031**
Project code	: Diamond Drill Core
Report date	: 05/12/97
Report status	: Final
Page	: 1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC54/00-04	0.14	--	<50	21		
BRC54/04-08	0.24	0.23	157	N.A.		
BRC54/08-12	0.28	--	182	N.A.		
BRC54/12-16	0.09	--	132	N.A.		
BRC54/16-20	0.02	--	<50	38		
BRC54/20-24	0.03	--	179	N.A.		
BRC54/24-28	0.06	--	317	N.A.		
BRC54/28-32	2.86	--	2643	N.A.		
BRC54/32-36	1.73	1.71	2642	N.A.		
BRC54/36-40	<0.01	--	174	N.A.		
BRC54/40-44	<0.01	--	86	N.A.		
BRC54/44-48	<0.01	--	<50	35		
BRC54/48-52	<0.01	--	<50	10		
BRC54/52-53	<0.01	--	<50	12		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014002 Order number : WCAO342031

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527260

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014008
Your reference	:	**WCAO342048**
Project code	:	Diamond Drill Core
Date received	:	27/11/97
Date reported	:	09/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 23
First Sample	: BRC47-56-57
Last Sample	: BRC48-31-32

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
02/12/97 Report
05/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527270

A N A L A B S

Our reference	:	BU014008
Your reference	:	**WCAO342048**
Project code	:	Diamond Drill Core
Report date	:	09/12/97
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	S	As	
BRC47/56-57	0.05	--	<50	<0.01	5	
BRC47/57-58	0.14	--	<50	<0.01	1	
BRC47/58-59	0.37	--	<50	<0.01	4	
BRC47/59-60	4.81	--	<50	<0.01	3	
BRC47/60-61	0.08	--	<50	<0.01	3	
BRC47/61-62	0.20	--	<50	<0.01	2	
BRC47/62-63	0.09	--	<50	0.01	5	
BRC47/63-64	0.17	--	<50	<0.01	2	
BRC47/64-65	0.21	0.20	<50	0.02	4	
BRC47/65-66	0.12	--	<50	<0.01	3	
BRC47/66-67	0.18	--	<50	<0.01	5	
BRC47/67-68	0.15	--	<50	<0.01	4	
BRC47/68-69	0.13	--	<50	<0.01	7	
BRC47/69-70	0.28	--	<50	<0.01	5	
BRC47/70-71	0.11	--	<50	<0.01	<1	
BRC45/24-25	0.14	--	<50	0.05	3	
BRC45/25-26	0.20	--	<50	<0.01	3	
BRC45/26-27	0.16	0.16	<50	<0.01	5	
BRC45/27-28	0.06	--	<50	<0.01	<1	
BRC48/28-29	0.04	--	130	<0.01	N.A.	
BRC48/29-30	0.04	--	<50	<0.01	38	
BRC48/30-31	0.48	0.51	150	0.03	N.A.	
BRC48/31-32	0.17	--	190	0.02	N.A.	
Method	F630	F630	A102	V821	H102	
Units	ppm	ppm	ppm	%	ppm	
Detection Limit	0.01	0.01	50	0.01	1	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014008 Order number : WCAO342048

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527272

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014039
Your reference : **WCAO342045**
Project code : Diamond Drill Core
Date received : 03/12/97
Date reported : 16/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 37
First Sample : BRC54-00-01
Last Sample : BRD34-159.6-160.5

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
05/12/97 Report
10/12/97 Report
12/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527273

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014039
Your reference : **WCAO342045**
Project code : Diamond Drill Core
Report date : 16/12/97
Report status : Final

ANALYTICAL DATA

Sample	Au	Au(R)	S	As
BRC54/00-01	0.03	--	0.01	N.A.
BRC54/01-02	0.26	--	0.02	N.A.
BRC54/02-03	0.12	--	0.04	N.A.
BRC54/03-04	0.05	--	0.05	N.A.
BRC54/04-05	0.03	--	0.05	N.A.
BRC54/05-06	0.01	0.02	0.03	N.A.
BRC54/06-07	0.10	--	0.01	N.A.
BRC54/07-08	1.27	--	0.01	N.A.
BRC54/08-09	0.22	0.20	0.01	N.A.
BRC54/09-10	0.13	--	<0.01	N.A.
BRC54/10-11	0.63	--	<0.01	N.A.
BRC54/11-12	0.60	0.55	<0.01	N.A.
BRC54/28-29	0.41	0.44	0.01	N.A.
BRC54/29-30	6.13	--	<0.01	N.A.
BRC54/30-31	4.07	4.02	<0.01	N.A.
BRC54/31-32	2.49	--	0.02	N.A.
BRC54/32-33	4.96	--	0.10	0.52
BRC54/33-34	0.54	--	0.05	N.A.
BRC54/34-35	0.27	0.28	0.03	N.A.
BRC54/35-36	0.30	--	0.02	N.A.
BRD34/75.0-76.3	<0.01	<0.01	0.05	N.A.
BRD34/76.3-77.7	<0.01	--	0.06	N.A.
BRD34/77.7-79.2	<0.01	<0.01	0.09	N.A.
BRD34/79.2-81.0	<0.01	--	0.16	N.A.
BRD34/81.0-82.6	<0.01	--	0.17	N.A.
BRD34/82.6-84.0	<0.01	--	0.06	N.A.
BRD34/84.0-85.0	<0.01	--	0.08	N.A.
BRD34/89.9-92.9	0.01	<0.01	0.21	N.A.
BRD34/92.9-94.4	<0.01	--	0.18	N.A.
BRD34/101.0-102.5	0.01	<0.01	0.06	N.A.
BRD34/102.5-104.3	0.01	--	0.05	N.A.
BRD34/104.3-106.0	0.01	<0.01	0.10	N.A.
BRD34/138.0-140.3	<0.01	--	0.83	N.A.
BRD34/140.3-141.7	<0.01	<0.01	0.23	N.A.
BRD34/142.7-144.6	0.01	0.01	0.34	N.A.
BRD34/158.6-159.6	<0.01	<0.01	0.37	N.A.
BRD34/159.6-160.5	<0.01	--	0.05	N.A.
Method	F630	F630	V821	A103
Units	ppm	ppm	%	%
Detection Limit	0.01	0.01	0.01	0.01

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527274

ANALABS

Our reference : BU014039
Your reference : **WCAO342045**
Project code : Diamond Drill Core
Report date : 16/12/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
BRC54/00-01	N.A.	N.A.	N.A.	N.A.	<50	
BRC54/01-02	N.A.	N.A.	N.A.	N.A.	70	
BRC54/02-03	N.A.	N.A.	N.A.	N.A.	53	
BRC54/03-04	N.A.	N.A.	N.A.	N.A.	<50	
BRC54/04-05	N.A.	N.A.	N.A.	N.A.	<50	
BRC54/05-06	N.A.	N.A.	N.A.	N.A.	89	
BRC54/06-07	N.A.	N.A.	N.A.	N.A.	<50	
BRC54/07-08	N.A.	N.A.	N.A.	N.A.	880	
BRC54/08-09	N.A.	N.A.	N.A.	N.A.	592	
BRC54/09-10	N.A.	N.A.	N.A.	N.A.	<50	
BRC54/10-11	N.A.	N.A.	N.A.	N.A.	<50	
BRC54/11-12	N.A.	N.A.	N.A.	N.A.	<50	
BRC54/28-29	N.A.	N.A.	N.A.	N.A.	1836	
BRC54/29-30	N.A.	N.A.	N.A.	N.A.	2341	
BRC54/30-31	N.A.	N.A.	N.A.	N.A.	2374	
BRC54/31-32	N.A.	N.A.	N.A.	N.A.	4956	
BRC54/32-33	N.A.	N.A.	N.A.	N.A.	>5000	
BRC54/33-34	N.A.	N.A.	N.A.	N.A.	1863	
BRC54/34-35	N.A.	N.A.	N.A.	N.A.	1651	
BRC54/35-36	N.A.	N.A.	N.A.	N.A.	1688	
BRD34/75.0-76.3	6	3	52	<1	<50	
BRD34/76.3-77.7	6	<3	43	<1	<50	
BRD34/77.7-79.2	6	<3	54	<1	<50	
BRD34/79.2-81.0	6	<3	53	<1	<50	
BRD34/81.0-82.6	8	7	68	<1	<50	
BRD34/82.6-84.0	5	<3	65	<1	<50	
BRD34/84.0-85.0	4	6	73	<1	<50	
BRD34/89.9-92.9	5	4	40	<1	<50	
BRD34/92.9-94.4	8	<3	390	<1	<50	
BRD34/101.0-102.5	4	15	26	<1	<50	
BRD34/102.5-104.3	3	15	18	<1	<50	
BRD34/104.3-106.0	9	5	35	<1	<50	
BRD34/138.0-140.3	4	<3	33	<1	50	
BRD34/140.3-141.7	5	<3	43	<1	<50	
BRD34/142.7-144.6	5	4	85	<1	86	
BRD34/158.6-159.6	70	39	114	<1	<50	
BRD34/159.6-160.5	36	25	106	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU014039 Order number : WCAO342045

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : G103 - Triple acid digest, Ore Grade samples

Triple acid digest, (HCl,HNO3,HClO4), Ore grade samples.

Scheme code : A103 - AAS analysis

AAS analysis of sample after G103 digest.

527270

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014049
Your reference	:	**WCAO342044**
Project code	:	Diamond Drill Core
Date received	:	05/12/97
Date reported	:	17/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 21
First Sample	: B46-134.5-135.5
Last Sample	: B46-133.5-134.5

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :
09/12/97 Report
12/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527277

A N A L A B S

Our reference : BU014049
Your reference : **WCAO342044**
Project code : Diamond Drill Core
Report date : 17/12/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B46/134.5-135.5	0.01	--	5.09	N.A.		
B46/135.5-136.5	<0.01	--	1.98	27		
B46/136.5-137.5	<0.01	--	4.13	N.A.		
B46/137.5-138.5	<0.01	--	2.38	N.A.		
B46/138.5-139.5	0.42	0.44	0.83	N.A.		
B46/139.5-140.6	0.06	0.05	4.73	N.A.		
B46/37-38	<0.01	--	2.99	22		
B46/38-39	0.02	--	2.30	N.A.		
B46/39-40	<0.01	<0.01	2.37	42		
B46/40-41	<0.01	<0.01	2.51	25		
B46/41-42	<0.01	--	5.27	N.A.		
B46/58-59	0.06	0.05	0.13	24		
B46/59-60	0.24	0.22	0.22	N.A.		
B46/69-70	0.02	0.03	0.24	28		
B46/90.7-91.8	<0.01	0.01	1.94	36		
B46/115.5-116.5	<0.01	--	1.68	N.A.		
B46/116.5-117.5	<0.01	--	0.94	N.A.		
B46/129.0-130.1	<0.01	--	4.86	N.A.		
B46/130.1-132.5	0.02	0.02	1.46	20		
B46/132.5-133.5	<0.01	--	1.29	37		
B46/133.5-134.5	<0.01	0.01	0.84	39		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527277

527278

ANALABS

Our reference	:	BU014049
Your reference	:	**WCAO342044**
Project code	:	Diamond Drill Core
Report date	:	17/12/97
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
B46/134.5-135.5	12	36	140	1	69	
B46/135.5-136.5	89	50	162	1	<50	
B46/136.5-137.5	5	7	117	1	56	
B46/137.5-138.5	5	11	74	<1	67	
B46/138.5-139.5	4	<3	47	1	1006	
B46/139.5-140.6	5	14	105	<1	147	
B46/37-38	21	<3	21	<1	<50	
B46/38-39	54	<3	29	<1	66	
B46/39-40	30	<3	23	<1	<50	
B46/40-41	88	6	31	<1	<50	
B46/41-42	106	13	46	<1	82	
B46/58-59	5	4	110	<1	<50	
B46/59-60	4	14	141	<1	117	
B46/69-70	3	19	45	<1	<50	
B46/90.7-91.8	5	12	53	<1	<50	
B46/115.5-116.5	5	8	55	1	61	
B46/116.5-117.5	6	<3	48	<1	67	
B46/129.0-130.1	5	35	139	1	114	
B46/130.1-132.5	14	16	59	<1	<50	
B46/132.5-133.5	9	8	43	<1	<50	
B46/133.5-134.5	18	11	54	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527279

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014049 Order number : WCAO342044

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527280

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014060
Your reference : **WCAO342043**
Project code : Diamond drill core
Date received : 08/12/97
Date reported : 16/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 20
First Sample : B46-140.6-141.1
Last Sample : B46-159.5-160.6

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
10/12/97 Report
12/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527281

A N A L A B S

Our reference : BU014060
Your reference : **WCAO342043**
Project code : Diamond drill core
Report date : 16/12/97
Report status : Final
Page : 1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B46/140.6-141.1	0.02	--	5.09	33		
B46/141.1-142.3	<0.01	--	1.00	46		
B46/142.3-143.1	<0.01	--	0.18	25		
B46/143.1-144.0	0.11	--	0.31	N.A.		
B46/144.0-145.0	0.03	--	4.61	N.A.		
B46/145.0-145.7	0.01	--	2.82	16		
B46/145.7-146.3	0.01	--	3.38	9		
B46/146.3-147.4	0.01	--	4.78	46		
B46/147.4-148.8	0.04	0.04	1.69	N.A.		
B46/148.8-150.3	0.01	--	1.00	N.A.		
B46/150.3-151.1	0.92	--	7.05	N.A.		
B46/151.1-152.6	0.74	--	2.59	N.A.		
B46/152.6-153.5	1.00	--	2.44	N.A.		
B46/153.5-154.3	1.43	--	1.47	N.A.		
B46/154.3-155.2	0.10	--	0.47	N.A.		
B46/155.2-156.1	0.45	--	0.95	N.A.		
B46/156.1-157.2	0.90	--	1.02	N.A.		
B46/157.2-158.0	0.04	--	0.26	N.A.		
B46/158.0-159.5	0.06	0.06	0.19	N.A.		
B46/159.5-160.6	0.05	--	0.11	<1		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527232

A N A L A B S

Our reference : BU014060
Your reference : **WCAO342043**
Project code : Diamond drill core
Report date : 16/12/97
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
B46/140.6-141.1	5	6	78	1	<50	
B46/141.1-142.3	21	5	52	1	<50	
B46/142.3-143.1	16	<3	65	1	<50	
B46/143.1-144.0	7	<3	432	1	82	
B46/144.0-145.0	6	5	93	<1	106	
B46/145.0-145.7	5	48	105	<1	<50	
B46/145.7-146.3	4	<3	61	1	<50	
B46/146.3-147.4	4	<3	52	1	<50	
B46/147.4-148.8	5	4	46	<1	103	
B46/148.8-150.3	4	<3	36	1	94	
B46/150.3-151.1	7	21	330	<1	2854	
B46/151.1-152.6	6	9	74	1	2632	
B46/152.6-153.5	6	<3	58	1	3522	
B46/153.5-154.3	5	<3	65	1	4274	
B46/154.3-155.2	3	<3	32	1	69	
B46/155.2-156.1	4	<3	46	1	2347	
B46/156.1-157.2	4	<3	38	1	3753	
B46/157.2-158.0	6	<3	39	1	100	
B46/158.0-159.5	5	3	26	1	94	
B46/159.5-160.6	3	3	20	1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

60L7777

527283

ANALABS

ANALYSIS DESCRIPTION

Job number : BU014060 Order number : WCAO342043

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527284

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014068
Your reference	:	**WCAO342042**
Project code	:	TASMANIA OC
Date received	:	09/12/97
Date reported	:	14/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 38
First Sample	: TR6-0-2
Last Sample	: TR7-42-44.7

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
12/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory
for preparation and/or analysis as requested by the client.

527285

ANALABS

Our reference	:	BU014068
Your reference	:	**WCAO342042**
Project code	:	TASMANIA OC
Report date	:	14/12/97
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
TR6/0-2	<0.01	<0.01	<50	<1		
TR6/2-4	<0.01	--	<50	<1		
TR6/4-6	<0.01	--	<50	<1		
TR6/6-8	<0.01	--	<50	<1		
TR6/8-10	<0.01	--	<50	2		
TR6/10-12	<0.01	--	<50	8		
TR6/12-14	<0.01	--	<50	5		
TR6/15-16	<0.01	<0.01	<50	5		
TR6/16-18	0.01	<0.01	<50	4		
TR6/18-20	<0.01	--	<50	<1		
TR6/20-22	<0.01	--	<50	<1		
TR6/24.5-26	<0.01	--	<50	<1		
TR6/26-28	<0.01	--	<50	1		
TR6/28-30	<0.01	--	<50	<1		
TR6/30-32	<0.01	--	<50	<1		
TR6/32-33.5	<0.01	<0.01	<50	<1		
TR7/0-2.5	0.01	<0.01	180	N.A.		
TR7/2.5-4	0.02	--	<50	7		
TR7/4-6	0.03	0.03	<50	8		
TR7/6-8.5	0.02	--	<50	3		
TR7/9-10	0.01	0.02	<50	4		
TR7/10-12	0.02	--	<50	4		
TR7/12-14	0.02	--	<50	<1		
TR7/14-16	<0.01	--	<50	3		
TR7/16-18	<0.01	--	<50	11		
TR7/18-20	0.01	<0.01	<50	12		
TR7/20-22	0.01	--	<50	5		
TR7/22-24	0.53	0.58	<50	31		
TR7/24-26	0.90	0.94	<50	25		
TR7/26-28	2.19	2.29	<50	6		
TR7/28-30	2.22	--	<50	10		
TR7/30-32	1.29	1.34	<50	3		
TR7/32-34	0.93	0.90	<50	<1		
TR7/34-36	1.17	1.20	<50	1		
TR7/36-38	1.24	--	<50	<1		
TR7/38-40	0.18	--	<50	<1		
TR7/40-42	0.39	0.38	<50	2		
TR7/42-44.7	0.54	--	<50	<1		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527286

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014068 Order number : WCAO342042

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527287

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	: BU014073
Your reference	: **WCAO342041**
Project code	: R/C - Pulp
Date received	: 10/12/97
Date reported	: 19/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 37
First Sample	: TR7-48.5-49.5
Last Sample	: TR11-13 TO TR7-29

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
17/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527283

A N A L A B S

Our reference	:	BU014073
Your reference	:	**WCAO342041**
Project code	:	R/C - Pulp
Report date	:	19/12/97
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
TR7/48.5-49.5	0.45	--	<50	3		
TR7/50-52	0.21	--	<50	5		
TR7/52-54	0.10	--	<50	<1		
TR7/54-57	0.46	--	<50	2		
TR8/00-02	0.06	--	<50	7		
TR8/02-04	0.05	--	<50	4		
TR9/00-02	0.40	--	<50	6		
TR9/02-04	0.05	0.04	<50	11		
TR9/05-07	0.01	0.01	<50	<1		
TR9/07-09	0.03	--	<50	2		
TR9/09-11	0.20	--	<50	1		
TR9/11-13	0.88	--	<50	3		
TR9/13-15	0.02	0.01	<50	1		
TR10/00-02	0.44	--	<50	<1		
TR10/02-04	0.11	--	<50	2		
TR10/04-06	0.08	--	<50	4		
TR10/06-08	0.05	--	<50	7		
TR10/08-10	0.07	--	<50	4		
TR10/10-12.5	0.13	--	<50	7		
TR11/00-02	0.02	--	<50	<1		
TR11/02-04	0.12	--	<50	<1		
TR11/04-06	0.06	--	<50	7		
TR11/06-08	0.03	--	<50	3		
TR11/08-10	0.02	--	<50	1		
TR11/10-12	<0.01	--	<50	2		
TR11/12-14	0.06	--	<50	<1		
TR11/14-16	0.12	0.13	<50	6		
TR11/18-20	0.10	--	<50	2		
TR11/20-22	0.06	--	<50	13		
TR12/00-02	<0.01	--	<50	5		
TR12/02-04	0.02	--	<50	3		
TR12/04-06	0.04	--	<50	8		
TR12/06-08	0.11	--	<50	<1		
TR12/08-10	0.05	0.04	<50	<1		
TR12/10-13	0.07	--	<50	1		
TR12/16-18	0.07	--	<50	5		
TR11/13 TO TR7/29	5.01	--	<50	6		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014073 Order number : WCAO342041

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527290

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014079
Your reference	:	**WCAO342032**
Project code	:	Diamond Drill Core
Date received	:	12/12/97
Date reported	:	19/12/97

Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 1
Number of Samples	: 34
First Sample	: TRR9-8
Last Sample	: TR18-7-9

Invoice to:
Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527291

ANALABS

Our reference	:	BU014079
Your reference	:	**WCAO342032**
Project code	:	Diamond Drill Core
Report date	:	19/12/97
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
TRR9/8	<0.01	--	<50	2		
TRR9/12.5	<0.01	--	<50	<1		
TR13/0-2.5	3.54	3.45	<50	1		
TR13/1.2-2.0	1.02	0.96	<50	4		
TR13/2-4	0.41	--	<50	2		
TR13/4-6	0.70	--	<50	4		
TR13/6-7.5	0.39	--	<50	2		
TR13/7.5-9	0.21	--	<50	2		
TR14/0-2	0.31	--	<50	1		
TR14/2-4	0.67	--	<50	3		
TR14/4-5.5	1.40	1.38	<50	2		
TR15/0-1	0.02	--	<50	1		
TR15/1-2	0.03	--	<50	2		
TR15/2-3	0.04	--	<50	3		
TR15/3-4	0.02	--	<50	4		
TR15/4-5	0.03	--	<50	<1		
TR15/5-6	0.08	0.08	<50	1		
TR16/0-1	0.03	--	<50	5		
TR16/1-3	<0.01	--	<50	2		
TR16/3-5	0.02	--	<50	4		
TRR16/3.5	0.01	--	<50	3		
TR17/0-2	0.01	--	<50	6		
TR17/2-4	<0.01	--	<50	2		
TR17/4-6	<0.01	--	<50	5		
TR17/6-8	0.01	--	<50	2		
TR17/8-10	<0.01	--	<50	7		
TR17/10-11.5	0.02	0.01	<50	3		
TR17/11.5-13	<0.01	--	<50	3		
TR17/13-15	<0.01	--	<50	3		
TR18/0-2	<0.01	--	<50	3		
TR18/2.5-3.5	0.01	--	<50	2		
TR18/3.5-5	0.02	--	<50	5		
TR18/5-7	<0.01	--	<50	3		
TR18/7-9	<0.01	--	<50	2		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU014079 Order number : WCAO342032

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527203

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014101
Your reference	:	**WCAO342033**
Project code	:	Channel Samples
Date received	:	17/12/97
Date reported	:	22/12/97

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 26
First Sample	: TR19-00-02
Last Sample	: BRD34-162.5-163.6

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527294

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014101
Your reference : **WCAO342033**
Project code : Channel Samples
Report date : 22/12/97
Report status : Final

ANALYTICAL DATA

Sample	Au	Au(R)	As			
TR19/00-02	<0.01	<0.01	6			
TR19/02-04	<0.01	--	4			
TR19/04-06	<0.01	--	3			
TR19/06-08	<0.01	--	5			
TR19/08-10	<0.01	--	3			
TR19/10-12.5	<0.01	--	1			
TR20/00-02	0.08	--	1			
TR20/02-04	0.24	--	5			
TR20/04-06	0.02	0.02	2			
TR20/06-08	0.07	--	5			
TR21/00-02	0.15	--	5			
TR21/02-04	0.29	--	7			
TR21/04-06	0.45	--	3			
TR21/8-10	0.11	--	5			
TR21/10-12A	0.34	--	7			
TR21/10-12B	0.08	--	6			
TR21/12-14	0.07	0.05	4			
TR21/14-16	0.06	--	5			
TR21/16-18	0.05	--	3			
TR21/18-20	0.21	--	6			
TR21/20-22	0.17	--	4			
TR21/22-24	0.57	--	3			
TR21/24-27	0.32	0.33	4			
BRD34/160.5-162	<0.01	--	6			
BRD34/162-162.5	<0.01	--	18			
BRD34/162.5-163.6	<0.01	--	13			
Method	F630	F630	H102			
Units	ppm	ppm	ppm			
Detection Limit	0.01	0.01	1			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527295

A N A L A B S

Our reference	:	BU014101
Your reference	:	**WCAO342033**
Project code	:	Channel Samples
Report date	:	22/12/97
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
TR19/00-02	N.A.	N.A.	N.A.	N.A.	<50	
TR19/02-04	N.A.	N.A.	N.A.	N.A.	<50	
TR19/04-06	N.A.	N.A.	N.A.	N.A.	<50	
TR19/06-08	N.A.	N.A.	N.A.	N.A.	<50	
TR19/08-10	N.A.	N.A.	N.A.	N.A.	<50	
TR19/10-12.5	N.A.	N.A.	N.A.	N.A.	<50	
TR20/00-02	N.A.	N.A.	N.A.	N.A.	<50	
TR20/02-04	N.A.	N.A.	N.A.	N.A.	<50	
TR20/04-06	N.A.	N.A.	N.A.	N.A.	<50	
TR20/06-08	N.A.	N.A.	N.A.	N.A.	<50	
TR21/00-02	N.A.	N.A.	N.A.	N.A.	<50	
TR21/02-04	N.A.	N.A.	N.A.	N.A.	<50	
TR21/04-06	N.A.	N.A.	N.A.	N.A.	<50	
TR21/8-10	N.A.	N.A.	N.A.	N.A.	<50	
TR21/10-12A	N.A.	N.A.	N.A.	N.A.	<50	
TR21/10-12B	N.A.	N.A.	N.A.	N.A.	<50	
TR21/12-14	N.A.	N.A.	N.A.	N.A.	<50	
TR21/14-16	N.A.	N.A.	N.A.	N.A.	<50	
TR21/16-18	N.A.	N.A.	N.A.	N.A.	<50	
TR21/18-20	N.A.	N.A.	N.A.	N.A.	<50	
TR21/20-22	N.A.	N.A.	N.A.	N.A.	<50	
TR21/22-24	N.A.	N.A.	N.A.	N.A.	<50	
TR21/24-27	N.A.	N.A.	N.A.	N.A.	<50	
BRD34/160.5-162	15	10	36	<1	<50	
BRD34/162-162.5	12	33	70	1	<50	
BRD34/162.5-163.6	10	10	68	1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014101 Order number : WCAO342033

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry, Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest, AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527297

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014109
Your reference : **WCAO342034**
Project code : Rock
Date received : 19/12/97
Date reported : 02/01/98

Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 2
Number of Samples : 53
First Sample : TR23-0-1
Last Sample : TR26-20-22

Invoice to:
Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
31/12/97 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527298

ANALABS

Our reference	:	BU014109
Your reference	:	**WCAO342034**
Project code	:	Rock
Report date	:	02/01/98
Report status	:	Final
Page	:	1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
TR23/0-1	0.15	--	<50	2		
TR23/1-2	0.13	--	<50	<1		
TR23/2-3	0.16	0.14	<50	<1		
TR23/3-4	0.11	--	<50	1		
TR23/4-5	0.10	--	<50	2		
TR23/5-6	0.07	--	<50	2		
TR23/6-7	0.12	--	<50	1		
TR23/7-8	0.07	--	<50	2		
TR23/8-9	0.03	0.02	<50	2		
TR23/9-10	0.06	--	<50	<1		
TR23/10-11	0.04	--	<50	1		
TR23/11-12	0.12	0.15	<50	1		
TR24/0-2	0.13	--	<50	19		
TR24/2-4	0.07	--	<50	7		
TR24/4-7	0.29	--	<50	2		
TR24/9.5-12	0.16	0.18	<50	2		
TR24/12-14	0.13	0.14	<50	7		
TR24/14-16	0.27	--	<50	6		
TR24/16-18	0.21	--	<50	15		
TR24/18-20	0.19	0.20	<50	10		
TR24/20-22	0.13	0.15	<50	9		
TR24/22-24	0.13	--	<50	8		
TR24/24-26	0.08	--	<50	3		
TR24/26-29	0.04	--	<50	7		
TR24/39-42	0.11	--	<50	11		
TR24/42-44	0.14	--	<50	11		
TR24/44-46	0.18	0.16	<50	11		
TR24/46-49	0.09	--	<50	1		
TR24/49-51	0.09	--	<50	5		
TR24/51-53	0.07	--	<50	3		
TR24/56-58	0.05	--	<50	5		
TR24/58-60	0.03	--	<50	2		
TR24/60-63	0.07	--	<50	8		
TR25/0-2	0.30	0.27	<50	2		
TR25/2-4.5	0.04	--	<50	<1		
TR25/7.5-10	0.03	--	<50	<1		
TR25/10-12	0.05	--	<50	1		
TR25/12-14	0.03	--	<50	<1		
TR25/14-16	0.02	--	<50	2		
TR25/16-18	0.05	--	<50	1		
TR22/4-5	0.08	--	<50	3		
TR22/7-9	0.06	--	<50	<1		
TR22/9-11	<0.01	--	<50	<1		
TR22/11-13	0.01	--	<50	<1		
TR26/3-4	0.08	--	<50	<1		
TR26/6-8	0.18	0.18	<50	1		
TR26/8-10	0.28	0.28	<50	3		
TR26/10-11	0.09	--	<50	<1		
TR26/12-14	0.06	--	<50	<1		
TR26/14-16	0.05	--	<50	<1		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527209

ANALABS

Our reference	:	BU014109
Your reference	:	**WCAO342034**
Project code	:	Rock
Report date	:	02/01/98
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
TR26/16-18	0.07	--	<50	1		
TR26/18-20	0.01	0.01	<50	1		
TR26/20-22	0.02	--	<50	<1		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU014109 Order number : WCAO342034

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527301

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014157
Your reference	:	**WCAO 342035**
Project code	:	RC
Date received	:	06/01/98
Date reported	:	11/01/98

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	:	1
Number of Samples	:	11
First Sample	:	BRC46-48-49
Last Sample	:	BRC53-05-06

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
09/01/98 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527302

ANALABS

Our reference	:	BU014157
Your reference	:	**WCAO 342035**
Project code	:	RC
Report date	:	11/01/98
Report status	:	Final
Page	:	1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC46/48-49	0.14	0.13	<50	5		
BRC51/08-09	0.04	--	<50	11		
BRC51/09-10	0.03	--	<50	7		
BRC51/10-11	0.05	0.04	<50	10		
BRC51/11-12	1.26	1.30	<50	13		
BRC51/12-13	0.42	0.45	<50	15		
BRC51/13-14	0.08	--	<50	9		
BRC51/14-15	0.07	--	<50	12		
BRC51/15-16	0.06	0.06	<50	14		
BRC53/04-05	16.00	15.70	262	N.A.		
BRC53/05-06	1.25	1.28	381	N.A.		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU014157 Order number : WCAO 342035

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527304

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014167
Your reference :
Project code : RC
Date received : 07/01/98
Date reported : 11/01/98

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 1
Number of Samples : 6
First Sample : BRC53-0-1
Last Sample : BRC53-7-8

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
09/01/98 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527305

ANALABS

Our reference : BU014167
Your reference :
Project code : RC
Report date : 11/01/98
Report status : Final
Page : 1 of 1

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	As	As		
BRC53/0-1	5.21	4.98	<50	25		
BRC53/1-2	0.17	--	335	N.A.		
BRC53/2-3	0.46	--	262	N.A.		
BRC53/3-4	0.59	--	219	N.A.		
BRC53/6-7	0.42	0.38	290	N.A.		
BRC53/7-8	0.07	0.07	151	N.A.		
Method	F630	F630	A102	H102		
Units	ppm	ppm	ppm	ppm		
Detection Limit	0.01	0.01	50	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU014167 Order number :

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527307

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014356
Your reference	:	**WCAP458620**
Project code	:	Half Drill Core
Date received	:	24/02/98
Date reported	:	04/03/98

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 2
Number of Samples	: 5
First Sample	: B48-43.1-45.2
Last Sample	: B48-86.9-87.6

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527308

A N A L A B S

Our reference	: BU014356
Your reference	: **WCAP458620**
Project code	: Half Drill Core
Report date	: 04/03/98
Report status	: Final
Page	: 1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B48/43.1-45.2	<0.01	<0.01	0.16	6		
B48/53.2-55.6	<0.01	--	0.37	4		
B48/72.1-72.3	<0.01	0.01	0.21	3		
B48/35.5-38.1	<0.01	--	<0.01	11		
B48/86.9-87.6	<0.01	--	0.04	<1		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527309

A N A L A B S

Our reference	:	BU014356
Your reference	:	**WCAP458620**
Project code	:	Half Drill Core
Report date	:	04/03/98
Report status	:	Final
Page	:	2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
B48/43.1-45.2	11	13	54	<1	<50	
B48/53.2-55.6	13	10	46	<1	<50	
B48/72.1-72.3	13	3	65	<1	<50	
B48/35.5-38.1	14	3	43	<1	<50	
B48/86.9-87.6	11	12	48	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

ANALYSIS DESCRIPTION

Job number : BU014356 Order number : WCAP458620

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527311

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014363
Your reference	:	**WCAP458619**
Project code	:	Half Drill Core
Date received	:	25/02/98
Date reported	:	05/03/98

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	:	2
Number of Samples	:	18
First Sample	:	B49-93.3-94.2
Last Sample	:	B49-110.2-111.1

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :
05/03/98 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

597312

ANALABS

Our reference	: BU014363
Your reference	: **WCAP458619**
Project code	: Half Drill Core
Report date	: 05/03/98
Report status	: Final
Page	: 1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S	As		
B49/93.3-94.2	<0.01	<0.01	0.08	3		
B49/094.2-095.2	<0.01	--	0.15	7		
B49/095.2-096.2	<0.01	--	0.07	5		
B49/096.2-097.2	<0.01	--	0.06	<1		
B49/097.2-098.2	<0.01	--	0.12	<1		
B49/098.2-099.2	<0.01	--	0.20	<1		
B49/099.2-100.2	<0.01	--	0.41	9		
B49/100.2-101.2	<0.01	<0.01	0.54	<1		
B49/101.2-102.2	<0.01	<0.01	0.09	1		
B49/102.2-103.2	<0.01	--	0.33	3		
B49/103.2-104.2	<0.01	--	1.76	25		
B49/104.2-105.2	0.01	<0.01	1.26	5		
B49/105.2-106.2	<0.01	--	1.32	25		
B49/106.2-107.2	<0.01	--	1.42	10		
B49/107.2-108.2	<0.01	--	0.27	<1		
B49/108.2-109.2	<0.01	--	1.49	<1		
B49/109.2-110.2	<0.01	--	1.46	5		
B49/110.2-111.1	<0.01	--	1.74	<1		
Method	F630	F630	V821	H102		
Units	ppm	ppm	%	ppm		
Detection Limit	0.01	0.01	0.01	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527313

A N A L A B S

Our reference : BU014363
Your reference : **WCAP458619**
Project code : Half Drill Core
Report date : 05/03/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	
B49/93.3-94.2	18	<3	52	1	<50	
B49/094.2-095.2	10	6	38	1	<50	
B49/095.2-096.2	16	4	65	1	<50	
B49/096.2-097.2	15	10	54	1	<50	
B49/097.2-098.2	28	6	78	<1	<50	
B49/098.2-099.2	27	4	73	<1	<50	
B49/099.2-100.2	39	10	66	<1	<50	
B49/100.2-101.2	29	6	59	<1	<50	
B49/101.2-102.2	32	<3	81	<1	<50	
B49/102.2-103.2	29	<3	64	<1	<50	
B49/103.2-104.2	52	29	67	1	<50	
B49/104.2-105.2	52	35	30	<1	<50	
B49/105.2-106.2	55	31	32	<1	<50	
B49/106.2-107.2	47	31	50	<1	<50	
B49/107.2-108.2	21	8	49	<1	<50	
B49/108.2-109.2	15	20	46	<1	<50	
B49/109.2-110.2	9	25	23	<1	<50	
B49/110.2-111.1	15	33	45	<1	<50	
Method	A102	A102	A102	A102	A102	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	3	2	1	50	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

6012777

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014363 Order number : WCAP458619

Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

---

Sample preparation. Drillcore,Rock samples; Dry,
Jaw crush, Fine pulverise, Ringmill, <3.5kg

Scheme code : F630 - 30g fire assay, Lead collection, AAS

Fire assay, Lead collection, Aqua Regia digest,
AAS, 30g sample.

Scheme code : G102 - Triple acid digest, Geochemical samples

Triple acid digest, (HCl,HNO3,HClO4), Geochemical
samples.

Scheme code : A102 - AAS analysis

AAS analysis of sample after G102 digest.

Scheme code : V821 - Total Sulphur Analysis

Leco tube furnace, Total Sulphur.

Scheme code : H102 - Hydride AAS analysis

Hydride AAS analysis after G102 digest.

527315

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference	:	BU014576
Your reference	:	**WCAP302252**
Project code	:	Core
Date received	:	24/04/98
Date reported	:	26/05/98

Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 21
Number of Samples	: 109
First Sample	: 213421
Last Sample	: NORTH DRIVE

Invoice to:
Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	/ /
Facsimile	/ /
Disk Report	/ /

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527816

ANALABS

Our reference	: BU014576
Your reference	: **WCAP302252**
Project code	: Core
Report date	: 26/05/98
Report status	: Final
Page	: 1 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO
213421	48.85	0.50	15.70	10.16	0.17	9.73
213422	42.83	2.36	16.21	19.70	0.09	8.76
213423	50.50	1.97	12.93	12.45	0.08	10.50
213424	48.81	2.07	13.54	13.37	0.08	9.98
213425	50.93	2.78	17.74	9.47	0.06	5.72
213426	51.06	2.72	17.42	9.87	0.05	5.44
213427	51.62	0.13	13.48	5.55	0.09	13.53
213428	45.72	0.56	16.94	11.77	0.15	7.41
213429	43.41	0.64	17.74	12.26	0.16	6.95
213430	52.12	0.27	14.25	7.27	0.13	11.35
213433	46.97	0.63	18.62	9.69	0.17	4.93
213436	49.64	0.60	16.26	10.44	0.11	7.20
213549	50.05	0.80	16.43	10.85	0.14	6.76
213550	47.92	2.97	19.60	10.65	0.05	4.71
213570	48.17	0.95	18.02	9.45	0.15	2.16
213575	61.10	0.43	16.98	5.34	0.09	3.63
213482	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213483	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213484	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213485	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213486	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213487	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213488	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213489	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213490	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213491	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213492	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213493	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213494	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213495	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213496	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213497	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213498	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213499	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213500	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213501	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213502	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213503	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213504	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213505	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213506	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213507	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213508	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213509	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213510	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213511	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213512	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213513	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213514	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213515	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X408	X408	X408	X408	X408	X408
Units	%	%	%	%	%	%
Detection Limit	0.05	0.01	0.05	0.01	0.01	0.01

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO
213516	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213517	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213518	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213519	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213520	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213521	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213522	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213523	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213525	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213526	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213527	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213528	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213529	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213530	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213531	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213532	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213533	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213534	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213535	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213536	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213537	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213538	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213539	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213540	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213541	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213542	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213543	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213544	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213545	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213546	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213547	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213548	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213551	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213552	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213553	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213554	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213555	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213556	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213557	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213558	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213559	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213560	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213561	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213562	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213563	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213564	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213565	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213566	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213567	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213568	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X408	X408	X408	X408	X408	X408
Units	%	%	%	%	%	%
Detection Limit	0.05	0.01	0.05	0.01	0.01	0.01

Notes: N.A. = not analysed, – = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527318

ANALABS

Our reference	: BU014576
Your reference	: **WCAP302252**
Project code	: Core
Report date	: 26/05/98
Report status	: Final
Page	: 3 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO
213569	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213571	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213572	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213573	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213574	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213576	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213577	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213578	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NORTH DRIVE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X408	X408	X408	X408	X408	X408
Units	%	%	%	%	%	%
Detection Limit	0.05	0.01	0.05	0.01	0.01	0.01

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	CaO	Na2O	K2O	P2O5	LOI100	La
213421	7.09	1.62	3.49	0.03	2.44	0.98
213422	0.55	0.06	3.25	0.39	6.27	14.65
213423	0.34	0.51	0.63	0.28	9.33	14.70
213424	0.44	0.42	0.50	0.22	11.24	24.85
213425	0.27	3.75	1.39	0.20	8.26	18.49
213426	0.42	3.64	1.42	0.26	8.29	20.56
213427	4.20	2.96	1.91	<0.01	6.54	0.93
213428	10.24	1.26	0.39	0.09	6.11	5.41
213429	9.12	2.06	1.00	0.13	7.10	7.03
213430	6.83	1.61	3.44	<0.01	2.92	0.63
213433	9.78	4.03	0.15	0.11	5.54	6.71
213436	8.74	2.62	0.63	0.05	4.29	5.46
213549	7.53	4.20	0.60	0.13	3.12	8.52
213550	0.14	1.18	2.51	0.19	10.68	33.79
213570	7.52	4.25	1.59	0.29	7.69	39.68
213575	2.90	3.47	3.88	0.07	2.81	26.05
213482	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213483	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213484	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213485	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213486	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213487	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213488	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213489	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213490	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213491	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213492	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213493	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213494	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213495	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213496	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213497	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213498	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213499	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213500	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213501	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213502	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213503	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213504	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213505	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213506	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213507	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213508	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213509	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213510	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213511	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213512	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213513	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213514	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213515	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X408	X408	X408	X408	X408	M104
Units	%	%	%	%	%	ppm
Detection Limit	0.01	0.05	0.01	0.01	0.01	0.05

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527320

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

ANALYTICAL DATA

Sample	CaO	Na2O	K2O	P2O5	LOI100	La
213516	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213517	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213518	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213519	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213520	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213521	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213522	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213523	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213525	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213526	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213527	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213528	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213529	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213530	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213531	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213532	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213533	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213534	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213535	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213536	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213537	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213538	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213539	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213540	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213541	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213542	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213543	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213544	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213545	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213546	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213547	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213548	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213551	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213552	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213553	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213554	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213555	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213556	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213557	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213558	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213559	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213560	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213561	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213562	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213563	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213564	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213565	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213566	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213567	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213568	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X408	X408	X408	X408	X408	M104
Units	%	%	%	%	%	ppm
Detection Limit	0.01	0.05	0.01	0.01	0.01	0.05

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527321

ANALABS

Our reference	: BU014576
Your reference	: **WCAP302252**
Project code	: Core
Report date	: 26/05/98
Report status	: Final
Page	: 6 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	CaO	Na2O	K2O	P2O5	LOI100	La
213569	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213571	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213572	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213573	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213574	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213576	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213577	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213578	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NORTH DRIVE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X408	X408	X408	X408	X408	M104
Units	%	%	%	%	%	ppm
Detection Limit	0.01	0.05	0.01	0.01	0.01	0.05

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

ANALYTICAL DATA

Sample	Ce	Pr	Nd	Sm	Eu	Gd
213421	2.50	0.41	2.5	1.1	0.49	2.2
213422	39.08	5.05	23.4	5.7	1.70	5.7
213423	31.53	4.23	20.3	5.2	1.82	5.9
213424	37.55	5.59	25.4	5.4	1.78	5.5
213425	35.49	4.88	23.0	5.8	2.14	6.7
213426	43.26	5.89	28.1	7.0	2.51	7.9
213427	1.49	0.25	1.3	0.4	0.11	0.8
213428	12.37	1.57	7.6	1.9	0.72	2.2
213429	15.79	1.99	9.6	2.4	0.84	2.7
213430	1.47	0.24	1.4	0.6	0.22	1.2
213433	14.12	1.69	7.8	2.0	0.72	2.3
213436	11.50	1.39	6.4	1.6	0.70	2.0
213549	17.59	2.16	10.1	2.6	0.91	3.5
213550	48.84	7.81	35.4	8.9	3.18	10.8
213570	80.39	8.79	35.6	6.9	1.89	6.1
213575	43.96	5.40	20.6	3.9	0.85	4.2
213482	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213483	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213484	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213485	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213486	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213487	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213488	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213489	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213490	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213491	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213492	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213493	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213494	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213495	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213496	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213497	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213498	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213499	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213500	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213501	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213502	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213503	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213504	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213505	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213506	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213507	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213508	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213509	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213510	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213511	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213512	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213513	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213514	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213515	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.1	0.1	0.05	0.1

Notes: N.A. = not analysed, — = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527393

A N A L A B S

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final
Page : 8 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ce	Pr	Nd	Sm	Eu	Gd
213516	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213517	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213518	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213519	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213520	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213521	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213522	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213523	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213525	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213526	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213527	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213528	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213529	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213530	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213531	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213532	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213533	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213534	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213535	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213536	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213537	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213538	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213539	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213540	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213541	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213542	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213543	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213544	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213545	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213546	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213547	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213548	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213551	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213552	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213553	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213554	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213555	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213556	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213557	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213558	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213559	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213560	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213561	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213562	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213563	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213564	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213565	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213566	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213567	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213568	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.1	0.1	0.05	0.1

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527324

A N A L A B S

Our reference	:	BU014576
Your reference	:	**WCAP302252**
Project code	:	Core
Report date	:	26/05/98
Report status	:	Final
Page	:	9 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ce	Pr	Nd	Sm	Eu	Gd
213569	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213571	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213572	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213573	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213574	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213576	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213577	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213578	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NORTH DRIVE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.1	0.1	0.05	0.1

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527395

ANALABS

Our reference	:	BU014576
Your reference	:	**WCAP302252**
Project code	:	Core
Report date	:	26/05/98
Report status	:	Final
Page	:	10 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Dy	Er	Yb	Ga	Th	Sc
213421	3.1	2.5	2.5	13.2	0.30	48
213422	5.5	3.1	2.7	21.9	3.31	26
213423	5.2	2.5	1.9	20.2	1.91	20
213424	4.6	2.1	1.8	20.2	2.25	20
213425	5.8	2.7	1.9	22.9	1.61	26
213426	6.7	3.3	2.4	23.3	2.08	26
213427	1.0	0.7	0.6	8.5	0.11	46
213428	2.0	1.3	1.1	18.1	1.08	40
213429	2.5	1.6	1.4	17.3	1.35	42
213430	1.7	1.4	1.4	10.3	0.34	56
213433	2.1	1.4	1.2	17.8	1.24	30
213436	2.1	1.3	1.2	15.6	1.05	34
213549	3.9	2.7	2.5	18.7	3.61	32
213550	10.5	5.6	3.9	25.5	2.24	26
213570	5.4	3.1	2.9	20.0	10.02	20
213575	4.2	2.7	2.6	16.8	8.08	18
213482	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213483	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213484	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213485	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213486	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213487	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213488	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213489	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213490	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213491	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213492	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213493	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213494	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213495	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213496	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213497	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213498	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213499	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213500	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213501	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213502	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213503	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213504	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213505	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213506	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213507	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213508	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213509	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213510	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213511	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213512	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213513	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213514	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213515	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.5	0.05	2

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527336

ANALABS

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Dy	Er	Yb	Ga	Th	Sc
213516	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213517	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213518	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213519	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213520	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213521	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213522	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213523	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213525	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213526	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213527	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213528	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213529	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213530	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213531	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213532	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213533	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213534	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213535	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213536	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213537	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213538	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213539	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213540	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213541	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213542	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213543	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213544	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213545	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213546	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213547	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213548	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213551	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213552	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213553	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213554	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213555	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213556	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213557	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213558	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213559	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213560	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213561	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213562	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213563	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213564	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213565	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213566	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213567	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213568	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.5	0.05	2

Notes: N.A. = not analysed, – = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527327

A N A L A B S

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Dy	Er	Yb	Ga	Th	Sc
213569	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213571	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213572	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213573	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213574	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213576	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213577	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213578	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NORTH DRIVE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.5	0.05	2

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Our reference	:	BU014576
Your reference	:	**WCAP302252**
Project code	:	Core
Report date	:	26/05/98
Report status	:	Final
Page	:	13 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ti	Ti	Zr	V	Nb	Rb
213421	2967	--	25	257	<3	107
213422	>10000	1.41	247	263	34	46
213423	>10000	1.18	184	198	30	18
213424	>10000	1.24	197	249	28	23
213425	>10000	1.67	261	325	42	27
213426	>10000	1.63	252	293	38	28
213427	847	--	<5	215	<3	36
213428	3176	--	23	327	<3	11
213429	3727	--	26	376	<3	25
213430	1481	--	5	178	<3	106
213433	3729	--	32	264	<3	5
213436	3203	--	23	287	<3	14
213549	5103	--	44	302	<3	14
213550	>10000	1.78	274	313	41	56
213570	4971	--	137	272	3	54
213575	2568	--	108	74	10	94
213482	2542	--	265	47	9	48
213483	263	--	11	11	<3	6
213484	1258	--	262	24	<3	5
213485	3088	--	318	53	9	54
213486	859	--	121	14	<3	9
213487	387	--	39	5	<3	5
213488	3040	--	257	53	9	57
213489	2504	--	254	36	6	31
213490	452	--	42	13	<3	7
213491	827	--	121	19	<3	14
213492	129	--	<5	<5	<3	6
213493	120	--	<5	<5	<3	7
213494	260	--	9	7	<3	12
213495	2680	--	186	44	9	54
213496	2531	--	222	45	6	46
213497	3513	--	219	68	9	65
213498	2822	--	227	42	8	40
213499	2373	--	258	38	7	53
213500	353	--	19	14	<3	12
213501	759	--	48	18	<3	22
213502	1091	--	215	14	<3	12
213503	2886	--	213	58	5	40
213504	1662	--	86	25	3	37
213505	3899	--	295	76	11	98
213506	2176	--	197	41	4	39
213507	2841	--	170	52	8	70
213508	2813	--	221	58	7	44
213509	3722	--	310	56	9	52
213510	2650	--	200	51	6	52
213511	1973	--	204	42	3	37
213512	651	--	112	11	<3	11
213513	1676	--	359	34	<3	12
213514	1208	--	164	16	<3	16
213515	1576	--	176	30	7	25
Method	X401	X408	X401	X401	X401	X401
Units	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	100	0.01	5	5	3	5

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

ANALYTICAL DATA

Sample	Ti	Ti	Zr	V	Nb	Rb
213516	2366	--	210	47	9	41
213517	189	--	15	10	<3	<5
213518	415	--	24	12	<3	11
213519	1950	--	360	41	6	25
213520	758	--	104	15	<3	10
213521	504	--	61	14	<3	8
213522	494	--	53	13	<3	8
213523	3492	--	213	92	12	138
213525	4314	--	223	116	17	198
213526	4495	--	181	118	15	222
213527	4471	--	283	94	16	177
213528	3757	--	202	137	15	156
213529	3930	--	221	133	11	162
213530	4044	--	246	112	13	136
213531	3515	--	195	98	12	183
213532	477	--	23	11	<3	23
213533	224	--	12	8	<3	9
213534	<100	--	<5	6	<3	<5
213535	<100	--	<5	<5	<3	<5
213536	2268	--	207	38	8	55
213537	227	--	<5	<5	<3	10
213538	132	--	<5	<5	<3	12
213539	168	--	<5	<5	<3	6
213540	3900	--	300	56	12	85
213541	881	--	78	12	<3	16
213542	4420	--	198	120	11	238
213543	2036	--	136	34	5	44
213544	2071	--	161	33	4	53
213545	2179	--	149	27	6	46
213546	3289	--	206	58	7	78
213547	3857	--	301	56	9	102
213548	1632	--	194	27	7	33
213551	<100	--	<5	<5	<3	<5
213552	450	--	51	11	<3	8
213553	353	--	35	8	<3	11
213554	976	--	164	18	4	13
213555	238	--	15	8	<3	5
213556	1252	--	128	31	<3	19
213557	577	--	122	10	<3	8
213558	1733	--	209	32	6	36
213559	3262	--	414	44	9	44
213560	3749	--	358	64	9	65
213561	3206	--	333	47	9	32
213562	3290	--	243	63	9	75
213563	3180	--	251	59	9	64
213564	3193	--	195	53	6	95
213565	144	--	5	<5	<3	8
213566	294	--	13	8	<3	12
213567	110	--	5	<5	<3	10
213568	115	--	<5	<5	<3	5
Method	X401	X408	X401	X401	X401	X401
Units	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	100	0.01	5	5	3	5

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527330

ANALABS

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ti	Ti	Zr	V	Nb	Rb
213569	332	--	32	9	<3	7
213571	4639	--	193	130	14	184
213572	2960	--	418	63	9	75
213573	3064	--	435	65	9	81
213574	4430	--	204	134	13	208
213576	4733	--	374	113	11	51
213577	4393	--	197	124	15	188
213578	4404	--	308	100	11	55
NORTH DRIVE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X401	X408	X401	X401	X401	X401
Units	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	100	0.01	5	5	3	5

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527331
ANALABS

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Y	Ba	Sr	Sn	Cr	Ni
213421	22	999	50	<3	342	182
213422	28	364	23	<3	302	200
213423	28	114	17	6	314	327
213424	25	85	20	7	333	243
213425	33	146	51	6	410	216
213426	34	128	55	6	407	245
213427	5	1640	85	7	891	298
213428	13	113	83	3	168	69
213429	12	250	165	4	150	46
213430	13	447	41	<3	207	163
213433	11	96	92	3	102	38
213436	12	413	163	3	55	35
213549	31	246	197	7	125	44
213550	65	194	19	<3	426	297
213570	31	414	273	<3	20	12
213575	29	690	98	<3	62	74
213482	23	146	18	6	596	29
213483	3	189	10	3	67	9
213484	6	50	9	3	1437	12
213485	23	187	18	<3	371	30
213486	5	30	5	3	926	13
213487	4	26	11	<3	258	23
213488	29	141	33	5	342	19
213489	19	88	25	6	74	10
213490	4	36	8	<3	666	21
213491	4	39	9	4	575	24
213492	6	42	137	<3	17	5
213493	<3	39	175	<3	20	<5
213494	4	52	187	<3	12	<5
213495	21	102	39	3	56	9
213496	19	95	105	4	128	9
213497	25	111	38	3	69	13
213498	20	72	42	<3	247	11
213499	17	95	37	4	98	6
213500	5	82	31	<3	326	6
213501	8	123	98	<3	95	27
213502	4	52	9	<3	932	10
213503	23	100	14	3	73	13
213504	18	101	146	<3	73	7
213505	31	233	46	4	79	20
213506	26	99	43	8	57	17
213507	21	151	34	4	248	19
213508	20	102	27	3	67	16
213509	24	114	42	<3	256	14
213510	23	150	32	3	62	13
213511	16	148	21	<3	490	14
213512	4	178	37	<3	223	<5
213513	8	108	8	<3	843	13
213514	6	184	18	4	267	10
213515	13	96	14	4	530	22
Method	X401	X401	X401	X401	X401	A104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	3	10	5	3	5	5

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527332

A N A L A B S

Our reference	:	BU014576
Your reference	:	**WCAP302252**
Project code	:	Core
Report date	:	26/05/98
Report status	:	Final
Page	:	17 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Y	Ba	Sr	Sn	Cr	Ni
213516	18	276	14	4	203	49
213517	<3	129	5	<3	603	12
213518	4	66	7	<3	116	12
213519	11	78	8	4	2428	41
213520	6	85	19	<3	295	21
213521	3	40	8	<3	1536	39
213522	5	34	12	4	737	19
213523	34	411	82	6	142	42
213525	36	918	19	8	107	37
213526	38	805	35	4	93	46
213527	36	1928	183	7	166	32
213528	43	1969	124	6	92	73
213529	44	402	79	6	226	72
213530	37	485	93	4	107	121
213531	32	88	229	<3	17	47
213532	<3	55	122	<3	18	<5
213533	4	55	122	<3	18	13
213534	4	27	304	<3	1755	755
213535	<3	19	199	3	1585	1837
213536	23	152	84	5	137	5
213537	<3	40	206	<3	26	8
213538	<3	39	157	<3	17	<5
213539	5	47	147	<3	8	<5
213540	33	198	28	5	313	16
213541	9	60	146	<3	31	<5
213542	38	1078	49	10	119	37
213543	21	117	78	5	56	10
213544	19	112	71	<3	138	14
213545	21	143	77	<3	61	7
213546	30	213	53	4	212	15
213547	33	239	36	5	97	18
213548	15	93	115	3	106	<5
213551	<3	48	145	<3	17	<5
213552	3	32	<5	<3	1361	37
213553	5	90	7	3	1009	30
213554	5	33	11	<3	38	36
213555	4	107	19	3	659	20
213556	10	112	37	<3	37	28
213557	3	86	18	<3	517	7
213558	15	105	85	<3	69	12
213559	31	111	41	4	254	7
213560	23	78	23	3	100	10
213561	26	183	24	5	311	15
213562	28	183	24	5	311	24
213563	30	141	55	3	93	25
213564	28	187	71	5	168	18
213565	<3	52	199	<3	12	<5
213566	3	100	235	<3	9	<5
213567	<3	128	165	5	12	<5
213568	3	65	90	6	26	9
Method	X401	X401	X401	X401	X401	A104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	3	10	5	3	5	5

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Y	Ba	Sr	Sn	Cr	Ni
213569	3	111	35	<3	470	23
213571	39	963	23	8	108	45
213572	30	411	15	3	76	24
213573	31	306	34	6	255	25
213574	37	699	31	8	118	55
213576	38	237	10	5	1236	230
213577	29	3523	23	5	90	27
213578	28	232	10	3	1112	234
NORTH DRIVE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X401	X401	X401	X401	X401	A104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	3	10	5	3	5	5

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

Our reference : BU014576
Your reference : **WCAP302252**
Project code : Core
Report date : 26/05/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Co					
213421	59					
213422	74					
213423	70					
213424	69					
213425	64					
213426	65					
213427	55					
213428	55					
213429	36					
213430	40					
213433	32					
213436	42					
213549	37					
213550	111					
213570	27					
213575	12					
213482	<5					
213483	<5					
213484	<5					
213485	11					
213486	7					
213487	<5					
213488	8					
213489	8					
213490	<5					
213491	<5					
213492	<5					
213493	<5					
213494	<5					
213495	7					
213496	7					
213497	7					
213498	<5					
213499	12					
213500	7					
213501	18					
213502	8					
213503	<5					
213504	<5					
213505	16					
213506	10					
213507	18					
213508	10					
213509	16					
213510	12					
213511	7					
213512	<5					
213513	6					
213514	<5					
213515	7					
Method	A104					
Units	ppm					
Detection Limit	5					

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527335

A N A L A B S

Our reference	:	BU014576
Your reference	:	**WCAP302252**
Project code	:	Core
Report date	:	26/05/98
Report status	:	Final
Page	:	20 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Co					
213516	<5					
213517	6					
213518	7					
213519	12					
213520	<5					
213521	9					
213522	<5					
213523	14					
213525	11					
213526	18					
213527	5					
213528	9					
213529	16					
213530	24					
213531	18					
213532	<5					
213533	<5					
213534	29					
213535	71					
213536	<5					
213537	<5					
213538	<5					
213539	<5					
213540	9					
213541	<5					
213542	7					
213543	<5					
213544	<5					
213545	<5					
213546	<5					
213547	6					
213548	6					
213551	<5					
213552	<5					
213553	9					
213554	11					
213555	9					
213556	7					
213557	<5					
213558	<5					
213559	<5					
213560	<5					
213561	8					
213562	6					
213563	14					
213564	8					
213565	<5					
213566	<5					
213567	<5					
213568	<5					
Method	A104					
Units	ppm					
Detection Limit	5					

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Our reference	:	BU014576
Your reference	:	**WCAP302252**
Project code	:	Core
Report date	:	26/05/98
Report status	:	Final
Page	:	21 of 21

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Co					
213569	<5					
213571	20					
213572	17					
213573	<5					
213574	15					
213576	22					
213577	<5					
213578	30					
NORTH DRIVE	N.A.					
Method	A104					
Units	ppm					
Detection Limit	5					

Notes: N.A. = not analysed, – = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

A N A L A B S

ANALYSIS DESCRIPTION

Job number : BU014576 Order number : WCAP302252

Scheme code : S002 - Drying

Sample preparation. Drying.

Scheme code : S005 - Jaw Crushing to nominal 6mm to 12mm

Sample preparation. Jaw crushing to nominal 6mm to 12mm.

Scheme code : S009 - Sample volume reduction - riffle split

Sample preparation. Sample volume reduction - riffle split.

Scheme code : S021 - Dry, Ringmill 500g to 1.5kg

Sample preparation. Dry, Ringmill. 500g to 1.5kg.

Scheme code : X408 - Glass fusion, XRF, Silicate rock analysis

Glass fusion, XRF, Silicate rock analysis

Scheme code : G104 - Total acid digest, Geochemical samples

Total acid digest, (HF,HCl,HNO3,HClO4), Geochemical samples.

Scheme code : M104 - ICP-MS analysis, Base metals

ICP-MS analysis of sample after G104 digest, Base metals.

Scheme code : X401 - Pressed powder, XRF, Trace determination

Pressed powder, XRF, Trace determination.

527338

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014639
Your reference : **WCAP302250**
Project code : Core and Rock Chip
Date received : 11/05/98
Date reported : 02/06/98

Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results : 3
Number of Samples : 18
First Sample : 213600
Last Sample : B45 101.3 - 102.4

Invoice to:
Peter Hills

Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :
Modem / /
Facsimile / /
Disk Report / /

Preliminary Reports :
20/05/98 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527339

A N A L A B S

Our reference : BU014639
Your reference : **WCAP302250**
Project code : Core and Rock Chip
Report date : 02/06/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As
213600	5	<3	18	<1	486
213601	11	<3	212	1	2546
213602	2280	445	734	>50	>5000
213603	6	<3	22	1	176
213604	>5000	86	82	6	1866
213605	43	6	42	1	115
213606	201	580	694	13	>5000
213607	42	48	56	1	2022
213608	6	<3	20	<1	254
213609	>5000	27	44	6	2909
B45 137.8 - 138.6	120	3031	>5000	3	>5000
B45 138.6 - 139.6	8	66	448	8	4177
B45 139.6 - 140.6	7	178	4955	<1	1658
B45 69.2 - 71.2	23	88	357	<1	178
B45 71.2 - 73.2	3	7	79	<1	<50
B45 73.2 - 75.4	19	74	456	<1	202
B45 91.3 - 92.8	2	11	74	<1	<50
B45 101.3 - 102.4	124	990	>5000	4	942
Method	A102	A102	A102	A102	A102
Units	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	3	2	1	50
Upper Method		A103			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527340

ANALABS

Our reference	:	BU014974
Your reference	:	**WX2A072698**
Project code	:	Rock
Date received	:	04/08/98
Date reported	:	19/08/98

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Number of pages of results	: 6
Number of Samples	: 37
First Sample	: 213621
Last Sample	: 213577

Invoice to:
Grant McDonald
Geologist
Geology
Beaconsfield Mine Joint Venture
P.O.Box 58
BEACONSFIELD

TAS 7270

Electronic Data Transmission :

Modem	Y 19/08/98
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :
17/08/98 Report

Results to:

Results to:

Remarks :

Authorised by ....
On behalf of:

Richard Newman
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.

527341

ANALABS

Our reference	: BU014974
Your reference	: **WX2A072698**
Project code	: Rock
Report date	: 19/08/98
Report status	: Final
Page	: 1 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	La	Ce	Pr	Nd	Sm	Eu
213621	37.54	80.96	9.32	34.5	6.3	1.37
213622	33.60	69.37	7.87	29.5	5.6	1.09
213623	37.10	77.75	8.84	32.7	5.7	1.19
213624	45.56	106.43	11.48	47.3	10.5	2.30
213625	30.97	63.02	6.91	25.6	4.7	0.90
213626	32.43	66.67	7.49	28.1	5.2	1.01
213627	30.13	65.77	7.61	28.4	5.0	1.06
213628	8.15	19.97	2.44	9.7	1.9	1.00
213629	22.30	50.06	5.63	21.0	3.9	0.85
213630	43.45	90.69	10.26	37.6	6.6	1.17
213631	40.10	84.62	9.44	35.3	6.3	1.99
213632	36.52	78.23	8.78	33.0	6.1	1.15
213633	35.64	75.67	8.49	31.6	5.8	1.20
213634	39.64	82.05	9.13	33.9	6.1	1.50
213635	42.44	90.45	9.71	36.6	6.9	1.52
213636	46.51	99.21	10.50	39.4	7.4	2.18
213637	56.54	116.11	12.43	45.1	8.0	1.64
213638	17.92	43.81	5.24	20.7	4.1	0.91
213639	19.89	45.01	5.36	20.9	4.1	0.88
213640	48.24	74.97	9.17	32.3	4.9	0.94
213641	44.90	77.66	9.70	36.0	6.2	1.22
213642	38.42	80.67	8.84	32.6	5.9	1.95
213493	1.68	3.07	0.36	1.5	0.3	0.09
213494	2.89	5.01	0.59	2.3	0.5	0.11
213523	39.59	85.00	9.31	34.6	6.2	1.20
213525	43.04	85.97	9.75	36.2	6.2	1.34
213527	39.78	79.34	9.03	33.7	6.2	1.27
213528	36.08	73.44	8.54	32.0	5.7	1.10
213530	37.05	81.51	9.18	34.5	6.3	1.25
213531	38.98	84.11	9.43	35.8	6.4	1.26
213532	5.63	12.06	1.31	4.9	0.9	0.19
213539	2.50	3.98	0.51	2.2	0.5	0.10
213566	4.20	9.21	0.99	3.7	0.7	0.16
213567	1.50	3.02	0.33	1.3	0.3	0.07
213571	48.30	98.83	10.96	40.3	7.2	1.50
213574	46.69	97.03	10.73	40.1	7.4	1.51
213577	43.70	87.30	9.43	33.9	5.7	1.60
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.1	0.1	0.05

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527342

ANALABS

Our reference : BU014974
Your reference : **WX2A072698**
Project code : Rock
Report date : 19/08/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Gd	Dy	Er	Yb	Ga	Th
213621	4.9	4.1	2.3	2.4	27.6	18.24
213622	4.7	3.9	2.1	2.0	14.6	14.22
213623	4.2	3.6	1.9	2.0	28.1	19.39
213624	10.0	6.9	3.2	3.0	22.1	15.17
213625	4.0	3.1	1.7	1.6	12.1	12.58
213626	4.1	3.4	1.7	1.7	12.3	12.69
213627	3.6	3.2	1.7	1.8	27.6	17.16
213628	1.9	2.0	1.3	1.4	23.8	10.46
213629	3.2	3.0	1.6	1.7	15.0	12.46
213630	4.5	3.4	1.6	1.7	13.6	16.48
213631	4.8	4.4	2.2	2.4	25.3	18.83
213632	4.1	3.6	1.8	2.2	20.2	13.18
213633	4.1	3.7	1.9	2.2	19.9	12.88
213634	4.8	4.3	2.2	2.3	22.2	16.25
213635	5.9	5.4	2.8	2.6	16.9	13.63
213636	6.1	5.1	2.5	2.0	23.5	18.60
213637	5.9	4.7	2.1	2.1	14.8	16.33
213638	3.4	3.0	1.7	2.0	21.5	8.79
213639	3.3	2.9	1.7	2.0	20.5	8.46
213640	3.3	2.6	1.3	1.6	5.7	12.45
213641	4.7	3.8	1.6	1.5	5.3	11.14
213642	4.7	4.0	2.2	2.2	23.6	18.07
213493	0.4	0.4	0.3	0.2	<0.5	0.39
213494	0.5	0.5	0.3	0.3	1.1	0.68
213523	4.3	2.9	1.6	1.9	20.2	14.36
213525	5.1	4.3	2.4	2.5	22.9	16.83
213527	5.1	4.1	2.2	2.2	20.4	17.35
213528	4.9	4.1	2.2	2.4	18.1	12.85
213530	4.3	3.0	1.6	2.0	21.0	13.39
213531	4.2	3.1	1.5	2.0	23.9	14.82
213532	0.8	0.8	0.5	0.4	2.5	1.98
213539	0.5	0.5	0.3	0.3	<0.5	0.60
213566	0.7	0.7	0.4	0.3	1.4	1.24
213567	0.2	0.2	0.1	0.1	0.6	0.43
213571	5.6	4.5	2.3	2.4	24.3	19.21
213574	5.9	5.1	2.6	2.7	25.2	18.62
213577	4.3	3.6	2.0	2.2	23.0	17.79
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.5	0.05

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

527343

ANALABS

Our reference	: BU014974
Your reference	: **WX2A072698**
Project code	: Rock
Report date	: 19/08/98
Report status	: Final
Page	: 3 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	P	Ti	Zr	V	Nb	Rb
213621	105	4079	212	130	16	235
213622	456	3100	273	60	11	99
213623	399	4080	151	131	18	227
213624	564	3649	180	141	15	176
213625	439	2662	318	74	9	85
213626	478	2708	341	61	14	87
213627	282	4092	156	117	15	238
213628	61	4063	188	142	17	200
213629	343	3140	218	68	12	117
213630	192	3302	408	64	13	98
213631	77	4187	218	106	20	206
213632	258	2932	181	87	14	176
213633	258	3027	168	86	11	171
213634	302	3942	191	107	17	213
213635	519	3377	167	111	13	150
213636	55	4493	221	119	21	185
213637	105	3639	311	76	15	129
213638	250	4505	205	133	18	159
213639	262	3933	177	118	15	141
213640	1640	2586	705	34	10	48
213641	413	2204	365	30	9	46
213642	178	4197	208	117	18	205
213493	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213494	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213523	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213525	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213527	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213528	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213530	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213531	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213532	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213539	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213566	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213567	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213571	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213574	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
213577	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Method	X401	X401	X401	X401	X401	X401
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	30	100	5	5	3	5

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

537344

ANALABS

Our reference : BU014974
Your reference : **WX2A072698**
Project code : Rock
Report date : 19/08/98
Report status : Final

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Tb	Ho	Tm	Lu	Sc	P
213621	0.67	0.82	0.36	0.4	14	N.A.
213622	0.65	0.75	0.32	0.3	8	N.A.
213623	0.58	0.69	0.30	0.3	14	N.A.
213624	1.30	1.21	0.46	0.5	12	N.A.
213625	0.53	0.60	0.25	0.3	6	N.A.
213626	0.52	0.65	0.27	0.3	6	N.A.
213627	0.49	0.61	0.26	0.3	12	N.A.
213628	0.32	0.41	0.20	0.2	12	N.A.
213629	0.47	0.58	0.25	0.3	6	N.A.
213630	0.52	0.63	0.27	0.3	6	N.A.
213631	0.61	0.83	0.35	0.4	10	N.A.
213632	0.47	0.71	0.32	0.4	12	N.A.
213633	0.48	0.70	0.32	0.4	12	N.A.
213634	0.59	0.84	0.35	0.4	10	N.A.
213635	0.79	1.05	0.42	0.4	8	N.A.
213636	0.79	0.96	0.39	0.4	12	N.A.
213637	0.72	0.85	0.33	0.3	6	N.A.
213638	0.45	0.57	0.29	0.3	10	N.A.
213639	0.43	0.57	0.28	0.3	10	N.A.
213640	0.35	0.48	0.22	0.3	4	N.A.
213641	0.59	0.65	0.24	0.2	2	N.A.
213642	0.63	0.77	0.33	0.4	10	N.A.
213493	0.06	0.08	<0.05	<0.1	<2	0.018
213494	0.08	0.11	<0.05	<0.1	<2	0.006
213523	0.48	0.57	0.27	0.3	12	0.043
213525	0.67	0.85	0.37	0.4	12	0.044
213527	0.68	0.78	0.33	0.4	10	0.048
213528	0.65	0.80	0.34	0.4	10	0.064
213530	0.46	0.58	0.28	0.3	12	0.045
213531	0.44	0.58	0.28	0.3	12	0.042
213532	0.12	0.16	0.07	<0.1	2	0.020
213539	0.08	0.12	<0.05	<0.1	<2	0.010
213566	0.10	0.14	0.06	<0.1	<2	0.019
213567	<0.05	<0.05	<0.05	<0.1	<2	0.014
213571	0.69	0.85	0.36	0.4	12	0.063
213574	0.80	0.97	0.40	0.4	12	0.049
213577	0.53	0.70	0.32	0.4	10	0.022
Method	M104	M104	M104	M104	M104	X408
Units	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.05	0.05	0.05	0.1	2	0.005

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

Our reference : BU014974
Your reference : **WX2A072698**
Project code : Rock
Report date : 19/08/98
Report status : Final

ANALYTICAL DATA

Sample	Y	Ba	Sr	Sn	Cr	
213621	38	1631	21	6	78	
213622	33	383	21	7	77	
213623	26	739	19	7	107	
213624	74	1539	46	7	101	
213625	21	548	29	4	66	
213626	25	340	21	6	126	
213627	25	762	19	9	101	
213628	28	4132	14	6	93	
213629	24	881	14	7	90	
213630	28	381	24	7	111	
213631	33	4965	26	4	79	
213632	28	864	48	5	107	
213633	28	690	44	10	118	
213634	34	2114	24	5	91	
213635	32	1235	16	6	84	
213636	37	4309	18	4	96	
213637	34	887	24	4	74	
213638	34	469	16	6	169	
213639	28	464	12	6	120	
213640	32	262	64	4	475	
213641	29	238	36	3	76	
213642	32	5216	26	5	81	
213493	N.A.	N.A.	N.A.	N.A.	N.A.	
213494	N.A.	N.A.	N.A.	N.A.	N.A.	
213523	N.A.	N.A.	N.A.	N.A.	N.A.	
213525	N.A.	N.A.	N.A.	N.A.	N.A.	
213527	N.A.	N.A.	N.A.	N.A.	N.A.	
213528	N.A.	N.A.	N.A.	N.A.	N.A.	
213530	N.A.	N.A.	N.A.	N.A.	N.A.	
213531	N.A.	N.A.	N.A.	N.A.	N.A.	
213532	N.A.	N.A.	N.A.	N.A.	N.A.	
213539	N.A.	N.A.	N.A.	N.A.	N.A.	
213566	N.A.	N.A.	N.A.	N.A.	N.A.	
213567	N.A.	N.A.	N.A.	N.A.	N.A.	
213571	N.A.	N.A.	N.A.	N.A.	N.A.	
213574	N.A.	N.A.	N.A.	N.A.	N.A.	
213577	N.A.	N.A.	N.A.	N.A.	N.A.	
Method	X401	X401	X401	X401	X401	
Units	ppm	ppm	ppm	ppm	ppm	
Detection Limit	3	10	5	3	5	

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALABS

Our reference	: BU014974
Your reference	: **WX2A072698**
Project code	: Rock
Report date	: 19/08/98
Report status	: Final
Page	: 6 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (004) 31 6837
Facsimile : (004) 31 8890

ANALYTICAL DATA

Sample	Ni	Co				
213621	32	13				
213622	32	9				
213623	38	5				
213624	24	22				
213625	34	6				
213626	29	6				
213627	10	<5				
213628	27	<5				
213629	26	10				
213630	26	10				
213631	13	9				
213632	105	17				
213633	120	27				
213634	65	15				
213635	53	8				
213636	15	16				
213637	16	13				
213638	173	36				
213639	115	20				
213640	8	8				
213641	8	10				
213642	55	18				
213493	N.A.	N.A.				
213494	N.A.	N.A.				
213523	N.A.	N.A.				
213525	N.A.	N.A.				
213527	N.A.	N.A.				
213528	N.A.	N.A.				
213530	N.A.	N.A.				
213531	N.A.	N.A.				
213532	N.A.	N.A.				
213539	N.A.	N.A.				
213566	N.A.	N.A.				
213567	N.A.	N.A.				
213571	N.A.	N.A.				
213574	N.A.	N.A.				
213577	N.A.	N.A.				
Method	A104	A104				
Units	ppm	ppm				
Detection Limit	5	5				

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

ANALYSIS DESCRIPTION

Job number : BU014974 Order number : WX2A072698

Scheme code : S002 - Drying

Sample preparation. Drying.

Scheme code : S005 - Jaw Crushing to nominal 6mm to 12mm

Sample preparation. Jaw crushing to nominal 6mm to 12mm.

Scheme code : S020 - Dry, Ringmill <500g

Sample preparation. Dry, Ringmill. < 500g.

Scheme code : G104 - Total acid digest, Geochemical samples

Total acid digest, (HF,HCl,HNO3,HClO4), Geochemical samples.

Scheme code : M104 - ICP-MS analysis, Base metals

ICP-MS analysis of sample after G104 digest, Base metals.

Scheme code : X401 - Pressed powder, XRF, Trace determination

Pressed powder, XRF, Trace determination.

Scheme code : A104 - AAS analysis

AAS analysis of sample after G104 digest.

Scheme code : X408 - Glass fusion, XRF, Silicate rock analysis

Glass fusion, XRF, Silicate rock analysis

APPENDIX 5

LEAMAN

(An interpretation regional geophysical data
Beaconsfield region, Northern Tasmania)

LEAMAN GEOPHYSICS

Registered office:
3 MALUKA STREET, BELLERIVE, TAS. 7018
All correspondence to:
GPO BOX 320 C, HOBART, TAS. 7001
Telephone: (03) 6244 1233
Fax: (03) 6244 6674

AN INTERPRETATION
REGIONAL GEOPHYSICAL DATA
BEACONSFIELD REGION, NORTHERN TASMANIA

for
BEACONSFIELD MINE JOINT VENTURE
by
D. E. LEAMAN

January 1998

BEACON-1

527350

SUMMARY

The most recent aeromagnetic data acquired in the Beaconsfield area have been reviewed and reprocessed. The processing has been based on upward continuation separations in order to remove spikes and the very large regional effect generated by ultramafics in the area. This has allowed presentation of quite subtle effects and exposed the effective resolution of the data set. The residual anomalies generated do map some formation boundaries, do clarify some cultural features and sources - such as roofs and power lines, and do suggest some fracture systems. Unfortunately the survey was flown with substantial terrain clearances (in excess of 120-150 m) and with line spacings of 150 m or more. Fine detail, in the generally delicate magnetic terrain east of the Andersons Creek ultramafic complex, has simply not been observed consistently or completely.

Enough detail has, however, been observed and preserved to suggest some key trends in local fracture systems; N-S, NNW, NE, NW, ESE. Residual processing of the giant anomaly related to the mafic complex has suggested that this complex has been sheared and compounded near the northing of Beaconsfield. A complex fracture net has been identified on the eastern side of this compound zone. Most known mineralisation is also restricted to this limited zone. The sinistral offset pattern coupled with conjugates and intersecting formation boundaries and transverse fractures is consistent with an actively rejuvenated zone which might well have focussed fluids at various times in its development. No character specific to known vein systems can be resolved with existing data.

Regional gravity data, also lacking in detailed resolution, confirm the general trend patterns and indicate that some transverse structures have operated at crustal scale. Their precise location cannot yet be given.

The data available suggest that both methods are workable and can provide useful information about the rocks and structures of this area but all existing data lack resolution at the scale of EL 7/88 and possible prospects within it. It is suggested that both data sets be augmented; the magnetics by a new high resolution survey of the EL and the gravity by some more regional, but relatively detailed infill. Any new magnetic survey of this area is likely to require a two-part treatment; a low level, high density aerial coverage west of the town of Beaconsfield and a high density ground coverage in the town area, and east of the town. The two surveys will require merging after modest processing of the ground data. This type of two method treatment should reveal structural and unit controls in the area, regardless of cover, and the addition of the gravity data will allow a weighting and ranking to be assigned to features identified so that ground exploration or drilling can be located optimally.

INTRODUCTION

This report considers the history and nature of regional geophysical interpretation in the Beaconsfield - Beauty Point region of northern Tasmania. It focusses upon the region containing the Tasmania Gold Mine and EL 7/88 held by Beaconsfield Operations Pty Ltd (BM JV) (Figure 1).

It also offers a newly processed version of the best magnetic data available and reviews the implications of this material.

All data available at the time of writing must be considered regional in quality, in terms of detail and coverage, and the principal aims of the present study have been to evaluate -

- how this information might assist further exploration and targetting of drilling programs,
- the general usage and potential applications of the data available,
- the nature, or type, of any augmenting data which might be required and whether such further acquisition is justified or necessary.

GEOPHYSICAL DATA

Magnetics

Only three regional aeromagnetic surveys of consistent and reasonable quality exist; statewide (AGSO), central and northern Tasmania (Conga Oil) and South Beaconsfield. The first two surveys were undertaken with particular objectives - broad coverage, modest resolution and limited cost.

The AGSO survey (included in Burrett & Martin, 1988) had a line spacing of about 1500 m, a terrain clearance of 150 m nominally, and a sampling interval often in excess of 30 m. This is a crude survey suited only for the most regional needs and not all parameters were fully recorded or can now be compensated. There are several regions where the terrain clearance specification was universally exceeded but it is not always known by how much. This survey should not be used for any specific evaluations or local studies. An extract is shown in Figure 2.

The Conga Oil Pty Ltd survey (Leaman, 1988) was flown at a fixed elevation of 1600 m with a 5000 m line spacing in order to resolve deep basin and upper crustal structure and minimise the effect of near surface or exposed dolerites. It is of limited local value but much of the understanding of the constitution of eastern Tasmania has, however, been derived from this broad scale survey with reliable observations, fixed reference parameters and well-defined specifications (eg., Leaman, 1991, 1992). An extract from this survey is shown in Figure 3. The comparative loss of definition, between this survey and that by AGSO, reflects the fixed high level specification and wider line spacing but, because these are both known accurately, the results are more easily processed and interpreted quantitatively.

The more restricted, higher quality survey which is examined in some detail in this report was flown with the Beaconsfield region as primary objective. The survey has a nominal ground clearance of about 150 m, a flight line spacing of 150-200 m and a sampling interval of about 10 m. This is a good quality, semi-regional survey overall but there are several departures from specification due to terrain (and aircraft type) and cultural features (including towns). Most of the survey is shown in Figure 4.

Inspection of observed data from each of these surveys will show that one very large response dominates the magnetic field in the area and only the third survey allows any representation of any character in this response. For quite different reasons, the more regional surveys do not allow much recovery of fine detail; the AGSO survey because the specifications vary or are unknown in places and the Conga survey because it was designed *not* to record fine detail. Where the data density is adequate and well controlled, however, then it is possible to filter the data and attempt recovery of the kind of fine detail which might help identify targets, local alteration effects, fracture systems or subtle variations in magnetic properties - such as may occur across unit boundaries. This has been attempted for the third survey.

The filter applied to the data is an upward continuation separation. The processing required is well defined, simple, stable and effective. In this case the observed data were first upward continued by one metre in order to despike the data set and then the data set was upward continued by 50 m. These relatively small continuations were completed in order to retain most of the form of the gross regional effect (50 m version) and all of the fine detail (1 m version). Then, when the 50 m version is subtracted from the 1 m version most of the regional effect disappears and the fine detail becomes predominant. The data range then reduces from several thousand nanoTeslas to at most a few hundred nT and the residual result can be enhanced and imaged in detail. This procedure can be recommended for future surveys; indeed it will be essential, but it depends on two critical factors. Firstly, was fine detail recorded in the first instance, and just how much continuation should be applied?
In the case of the survey studied here much fine detail was never acquired - the line spacing is too coarse, the sampling a little wide and, most importantly, the terrain clearance was too great. Note that an upward continuation of 50 m, as applied here, is equivalent to data acqusition at 200 m (the actual flight clearance, plus 50 m). It is clear, then, that much has been lost in the entire process. It might also be noted that, in the circumstances, no other filter type is as objective and the need to remove the gross effect cannot be avoided. Further, detail having never been observed cannot be restored. The actual choice of continuation separation for production of the residual field is largely a matter of trial and error to find the clearest representation of the data which recovers fine texture whilst controlling any large or blanketing effects.
An image of the residual data obtained in this way is shown in Figure 6; its contoured equivalent is given in Figure 5. These presentations are a significant improvement on that showing the raw data (Figure 4). The display of the power line across the southern part of the area exemplifies the improvement in display and resolution. It should be noted, however, that much of the character in the image is really quite subtle and may be artifacts of the original gridding and subsequent processing of the data given the limitations on detail inherent in the data set.

Gravity

Some gravity data also exist. The coverage is very regional and raw Bouguer anomalies and station locations are shown in Figure 7 (from Leaman *et al*, 1973). No data have been acquired in the area north of Exeter since 1971. Gravity data are also affected by gross regional effects (mantle, ocean basins, granitoids, etc) and removal of these allows considerable enhancement of the data base. Techniques for this type of processing were developed in 1988-9 (Leaman & Richardson, 1989) and Figure 8 presents the result for this area. An image of the residual field for Tasmania appears on the cover of Geological Survey Bulletin 70 (1992) and suggests great detail overall - most of which is not apparent in the observed data. This style of residual processing has proven very useful elsewhere in Tasmania but limited data base density in the north Tamar region restricts recovery of useful geological information.

Geology and previous interpretations

Geological base mapping is available (Gee & Legge, 1971; Gulline & Nacqvi, 1973) at 1:63 360 and 1:25 000 scales and detailed discussion is neither justified nor included in this report. A relevant summary diagram is provided in Figure 9 which excludes covering materials (Permian to Recent). The geology of the Tasmania Mine has been described by Hicks & Sheppy (1990) but the controls on the massive reef system are neither known nor fully defined. The Cambrian to Devonian stratigraphy is reasonably well established although there are some points of contention due to facies variation, onlap relationships and possible structural interpolations and interfaces.

Most previous geophysical interpretations have considered the structural setting of the Beaconsfield area and have, therefore, been limited by the quality of the data available at the particular time.

No early geological study (pre 1990) explained the setting of the Badger Head Precambrian block or the adjacent ultramafics; it was simply thought that a series of unconformable relationships were involved and that some of these may have interfingered with the Mathinna Beds further east. The gross structural view was simply that of a major sub-vertical boundary between western Tasmania and eastern Tasmania styles of geology. This was called the Tamar structure or lineament. More recently this structure, still almost universally referred to, has been considered a plate docking or terrane boundary. Leaman (1994) drew attention to the fact that it does not, and cannot, exist in the forms conceived and that the term should no longer be used.

The simple stratigraphic view of the region had been challenged much earlier (Leaman *et al*, 1973) when it was suggested that the Precambrian rocks were allochthonous. Basement-involved thrusting was not an acceptable concept at the time but the indication that such a block had been overthrust *to* the west should have caused review of relationships at Beaconsfield. Gravity data and a review of boundary relationships had generated this suggestion but adequate data did not exist in the Beaconsfield area to resolve whether the sequence had merely been carried with the thrust block or whether it was structurally more complex. An extract of the pioneering interpretation is shown in Figure 10. The availability of regional magnetic data (after 1988) allowed some primary re-assessment and the structural setting of the entire Tamar region was reviewed by Leaman (1991, 1992) and Roach (1994). A complex thrust stack was defined using both gravity and magnetic data sets (eg., Figures 13, 14, 15) and shown to be fundamental to the construction of eastern and central Tasmania (Figures 11, 12).

This work showed that the various sequences exposed east of Port Sorell were basement to the eastern, Mathinna Beds, sequences with some minor interfingering of post Silurian formations. The concept also showed that the so-called Tamar fracture system was merely one element of a thrust front.

Although the regional geophysical data available had been able to permit evaluation of structures at regional and crustal scale they lacked the detailed coverage essential to the definition of fine character and location of exposure projections.

Meanwhile, however, the geological evidence had also been reviewed and the thrust stack concept of northern Tasmania was established beyond reasonable doubt (Elliott *et al*, 1993). Many aspects of thrust location do, however, remain in dispute and will do so until modern mapping, some deep drilling and relevant geophysical data are available within the area west of the Tamar River.
It might be noted that the most recent Geological Survey compilation (1997 by M. McClenaghan) now shows thrusts but the symbols seem to be incorrectly located and labelled. The "teeth" should be on the upper plate and should indicate dip or facing. All structural and geophysical analyses to date suggest that the thrust surfaces face east and that motion has been up from the east.

Within this structural context there is no obvious explanation for the focus of veins and mineralisation in the Beaconsfield area. Leaman (1992) did, however, argue that the thrusting and rejuvenation, not excluding primary development, of the area is quite old and that Jurassic and Tertiary-Recent developments are largely pull-apart superimpositions. In this environment one might expect conjugate structures from NW or SW and that these will also have been long-lived. Such structures are likely to have generated substantial openings or areas of stress release, with consequent fluid flow, and may be crucial to understanding of the mineralising process. Many structures of this type may not be visible or obvious at present land surface or in currently exposed stratigraphy. But each will have moved, or gaped, with each compressive pulse (thrust action and rift margin uplift) or tensile pull (rift development). These structures are almost certainly still active.

Identification of fracture patterns, of all types, is therefore essential if the mechanisms which focus fluid flow are to be identified or predicted. Figure 16, from Leaman (1991), suggests a possible regional pattern. NE-trending features extend, or may extend, into the Beaconsfield area and the shape of West Arm, as well as the location of the Beaconsfield mineral field may be related to them. This discussion is intended to suggest that many modern elements - including topography, as well as ancient features, may be controlled by such deep-seated features. Unfortunately the limited data available do not allow better definition of all features and possible trends but the existence of such features is interesting at a regional scale.

Where more than one data set can reflect a structure, even one concealed, then it may be possible to appraise its significance as a structural element. Such weightings based on crustal involvement may allow ranking of potential target areas. It should also be noted that where data detail, or base mapping is adequate, that twists or offsets in trends, or abnormal changes in thickness, in near surface rocks may reflect subtle but continuing action along deeper structures. Thus burial of a major boundary or structure may lead to warping and smudged indicators in the covering sequences. Recognition and mapping of such features may crudely locate the primary structure.

INTERPRETATION

The interpretive comments provided here amount to a development of ideas and characteristics summarised in Figures 11 and 16 especially. They are based on the most recent magnetic data set (Figures 4 to 6).

It is not yet possible to fully quantify any interpretation since rock property data remain ill defined (at least magnetically). Consequently this review considers, in particular, qualitative and mapping aspects directly deducible from the data.

Figure 17 indicates many of the lineaments and patterns evident in the residual magnetic data. Not all features are evident in all presentations due to limitations of viewing angle, style of presentation or amplitude of feature and the diagram summarises the many trends mapped.
The figure stresses groups of patterns but many areas lack detail and subtleties cannot be recognised. A clear texture is evident within the anomalies of the ultramafic complex, parts of the marginal dolerites to the east of Beaconsfield, and in the immediate vicinity of both Flowery Gully and Beaconsfield. NW and NNW trends appear predominant and this may be a function of post Permian activity - or rejuvenation of older sub NW features. Some WNW and near E-W features are also apparent and the latter are almost always associated with unit dislocations and distortions on a large scale. The feature near 5428 000 mN is clearly a major regional structure. NE trends are much rarer but non uncommon and many are concentrated in the Beaconsfield area. Others are evident within the dolerite pattern anomalies. The possible conjugate of shears and fractures alluded to in the previous discussion may exist and may have been crudely mapped in the Beaconsfield area where NNW, NW and NE structures intersect. This is also consistent with the cruder, larger scale suggestion presented in Figure 16.

The magnetic data clearly trace the Jurassic dolerite SSE from the Greens Beach area to Red Bill Point, Ralstons Hill and Deviot (Figure 18). The western boundary of the intrusion is irregular which suggests either an irregular erosional surface now blanketed by Tertiary cover (north of West Arm) or irregular transverse faulting. If the latter exists then WNW and N-S trends are involved.

The disturbed pattern of anomalies in the Beauty Point area is associated with the basalts included in the Tertiary sequence and the anomalies indicate the general extent of the flows. It is possible that some patchy remnants of volcanics extend in an arc from north of the Beaconsfield - Beauty Point Road into the Beaconsfield deep lead zone but these rocks are absent to the east of the road and Pease Creek. There is no exposed reason for this change in character, or control, but the magnetic field implies a NE-trending structural control either within, beneath, or active during deposition of Tertiary sedimentation. The termination of the elevated portion of Cabbage Tree Hill and the North Tasmania deposits may be associated with this structure and its various rejuvenations.

The large anomaly related to ultramafics extends northward from the Andersons Creek area little diminished in amplitude until near the northing of West Arm where the feature is narrowed and simplified. The source remains at very shallow depth. Near 5448 000 mN, however, the feature is faulted and the source may be up to 400 m deep north of the fault. The deepened block of ultramafics appears to be finally terminated near the coast.

The data are not definitive but the disrupting structure may extend NE-SW from Greens Beach. The dolerite intrusion has also been controlled or disrupted by this structure. Note that Leaman *et al* (1973) considered that parts of the dolerite intrusion along this margin were elements of a feeder. This would imply that simple offsets are unlikely and primary controls on the intrusion are involved, at very least. It also means that the NNW trend is fundamental in this area. The "offsetting structure" can also be recognised in Figure 16 - where it is shown to extend from as far west as the southern part of Port Sorell, at least.

No other definitely anomalous character can be described in the area.

North of the Kelso and Badger Head roads everything is consistent regionally with the materials exposed. This is also true of the region around West Arm and north of Ilfraville. Three small responses may be observed north of West Arm Road but these may be due to ferruginous conglomerates or sands, or basalt remnants, within the Tertiary rocks.

The spreading character of the ultramafic-related anomalies shows that these are not simple sources and that much of the material is not exposed and that the non exposed volumes extend to just west of Cabbage Tree Hill, but at moderate depth. The character of the ultramafics is simplified south of 5435 000 mN and the source character is similar to that noted north of 5440 000 mN. This fanning, or multiplicity, of the belt is interesting since the range of northings associated with it also contain the known gold shows and reefs. Is this an important coincidence? This suggestion is more clearly made in Figure 20.
The overall effect, as mapped magnetically, within the ultramafic response is slightly sigmoidal suggesting a primary sinistral offset to the northeast at about 5437 000 mN. This nominal axis position matches projects into a zone near Middle Arm where the strike observed in Permian rocks is slightly rotated.

South of Beaconsfield some subtle relationships may be observed between magnetic field and exposure of Ordovician rocks, such as near Peaked Hill, Salisbury Hill and Cabbage Tree Hill. Only the broadest exposures or longer boundaries can be recognised in this way but it is evident that these materials are distinctive magnetically. It is unclear just how significant the magnetic contrast may be since several of the gradients observed may be associated with terrain clearance problems and directly related to the steeper aspects of the hills. More marked effects can be noted along some parts of the boundaries, such as east of Peaked Hill along Flowery Gully Road. These may be due to house roofs. Another anomaly response occurs at the southern end of Salisbury Hill but is not so readily explained.

Small disturbances in the magnetic field may also be observed around the township of Beaconsfield. These are considered to be cultural in origin (roofs). Similar features near Wyatts Tram and along Auburn Road near Middle Arm Creek may have a similar origin - or be due to local ferruginous sands or basalt remnants. Some of the more isolated effects should be reviewed by ground checking; are house or sheds present, and what particular surface or alteration variants may be exposed?

South of Beaconsfield, along Cobblestone Creek, Cambrian volcanics generate a modest but recognisable response.

The response from the main power line across the area can be seen in image and contour presentations; from 478 000 mE, 5428 000 mN to 492 000 mE, 5436 000 mN.

The gross relationships, trends and patterns noted are not consistently defined due to coverage, detail and clearance factors, as well as the nature of the materials present; few have significant magnetic properties.

Resolution is not sufficient to offer any detailed comment about location of mineralised sites although Figure 20 does suggest some elements which may be locally important. The most significant of these would appear to be the gross offset within the Andersons Creek complex and the disturbance in its shadow to the east - in the direction where most stress (tensile and compressive) will always have been focussed. This zone, with the four principal prospects (Tasmania reef, North Tasmania, Wyatts Tram and Pease Creek) has been examined in more detail. It must be noted, however, that use of larger scales with the existing data set may amount to over-interpretation.
Review of Figures 21 and 22 shows that this is indeed the case; the expansion of scale - whilst retaining highest possible resolution (0.5 nT contours!) - tends to diffuse character which seems substantial at smaller scales (as in other diagrams).

For example, the gradient along the western side of Cabbage Tree Hill and its exposed Ordovician rocks is retained - but this correlation only stresses the possibility that the effect is at least partly the result of clearance deviations due to change in slope. Similarly, the noisy effect of the town of Beaconsfield is diminished because the individual sources can be discriminated.

The result: a coarse discrimination - even with the data set optimally enhanced - but a suggestion of trends to the NNE (unambiguous along Pease Creek) from the Tasmania and North Tasmania reefs with perhaps a unifying NNW trend through the town to Pease Creek. No other comment is justified at this enlarged scale with this data.

RECOMMENDATIONS

The differences noted between progressive surveys indicates the nature of information and detail which might be extracted with increasing detail and resolution of survey. The most recent magnetic survey has exposed many features of the region but its specification has limited the result. The treatment reported here has shown, however, that the regional aspects of the magnetic field can be processed and managed in order to amplify detail and provide optimal resolution for the given data set.

A survey specific to the EL but with a much closer line spacing (of the order of 50 m) and a much lower terrain clearance (again of the order of 50 m) with a sample interval of about 5 m will reveal much more of the fracture net character. The modest amounts of relatively recent cover which blanket some parts of the area are not generally significant and will not limit the application to find such fracture systems or define unit continuity. Consequently, a high resolution, limited area survey is recommended.
A critical problem for an aerial survey, however, is the township of Beaconsfield. Overflight may not be legally possible, or wise, at worthwhile elevations. A ground survey with redundant coverage of the town and the small area to its east may provide the best coverage compromise. Such a survey may then be gridded and sampled, then continued to the terrain clearance of the aerial component of the survey and the two blended. This option is feasible and practicable. It would retain detailed character.

This survey should be supported by collection of susceptibility measurements on the local rocks in order to confirm that systematic differences are formation-related and not due to terrain effects.

All localised or single point anomalies should be reviewed by comparison with aerial photographs to ensure that farm or other buildings are not sources for such effects.

The coarse gravity data base could be augmented in the general area. Such an infill survey must cover an area much larger than the immediate EL in order to be useful but nominal station spacings of about 500 m in the general area, and 250 m within the EL might well provide the discrimination required for complete appraisal of any magnetic trends defined. It should be noted that a gravity survey may also provide information about a range of other features, including the lead system, and unit continuity within the area.

527359

REFERENCES

Burrett, C.F., & Martin, E.L., 1989. Geology and Mineral Resources of Tasmania. *Geol. Soc. Aust. Spec. Publ. 15.*

Elliott, C.G., Woodward, N.B., & Gray, D.R., 1993. Complex regional fault history of the Badger Head region northern Tasmania. *Aust. J. Earth Sci.,* 40, 155-168.

Gee, R.D., & Legge, P.J., 1971. Geological atlas, 1: 63 360 series, sheet 30 (8215N). Beaconsfield. Department of Mines, Tasmania.

Gulline, A.B., & Naqvi, I.H., 1973. Geological atlas, 1: 63 360 series, sheet 38 (8215S). Frankford. Department of Mines, Tasmania.

Hicks, J.D., & Sheppy, N.R., 1990. Tasmania gold deposit: Beaconsfield, in *Geology of the Mineral Deposits of Australia and Papua New Guinea* (ed. F.E. Hughes). Pp. 1225-1228 (The Australasian Institute of Mining and Metallurgy, Melbourne).

Leaman, D.E., 1988. Annual report, EL 1/88. Conga Oil, December. *Mines Dept. Open File.*

Leaman, D.E., 1991. Preliminary interpretation, gravity and magnetic data, northern Tasmania. Report for Conga Oil, June. *Mines Dept Open File.*

Leaman, D.E., 1992. Finding Cambrian keys: An essay in controversy, prospectivity and tectonic implications. *Bull. geol. Surv. Tasm.,* 70, 124-148.

Leaman, D.E., 1994. Geological note: The Tamar fracture system in Tasmania: Does it exist? *Aust. J. Earth Sci.,* 41, 73-74.

Leaman, D.E., & Richardson, R.G., 1989. Production of a residual gravity field map for Tasmania and some implications. *Exploration Geophysics,* 20, 181-184.

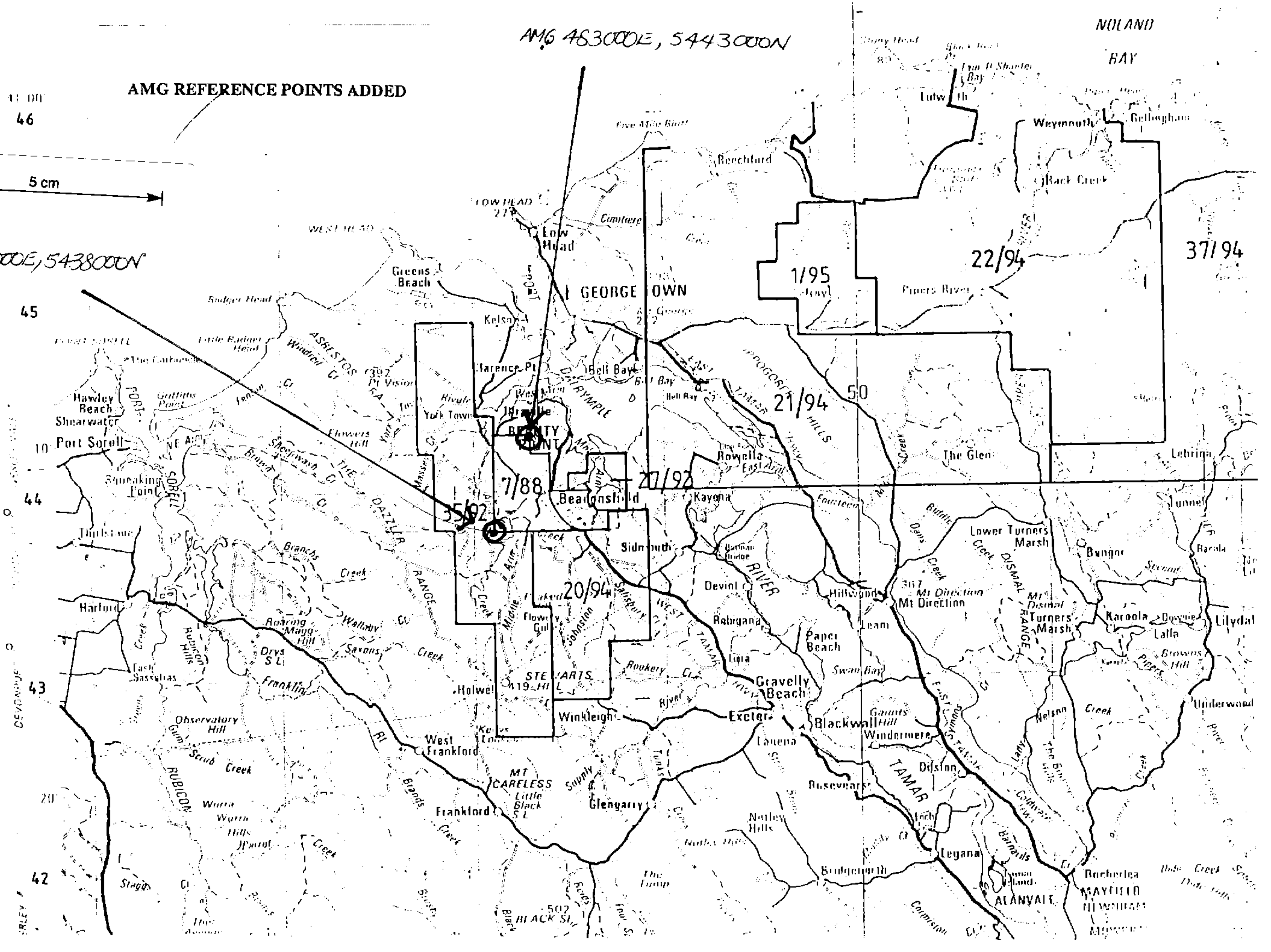
Leaman, D.E., Symonds, P.A., & Shirley, J.E., 1973. Gravity survey of the Tamar Region, northern Tasmania. *Geol. Surv. Tasm. Pap.* 1.

Roach, M.R., 1994. The regional geophysical setting of gold mineralisation in northeast Tasmania. Ph D Thesis, University of Tasmania.

Report submitted on behalf of Leaman Geophysics,
by D.E. Leaman, B.Sc., Ph.D., F.Aus. I.M.M.

D Leaman

Feb 2, 1998



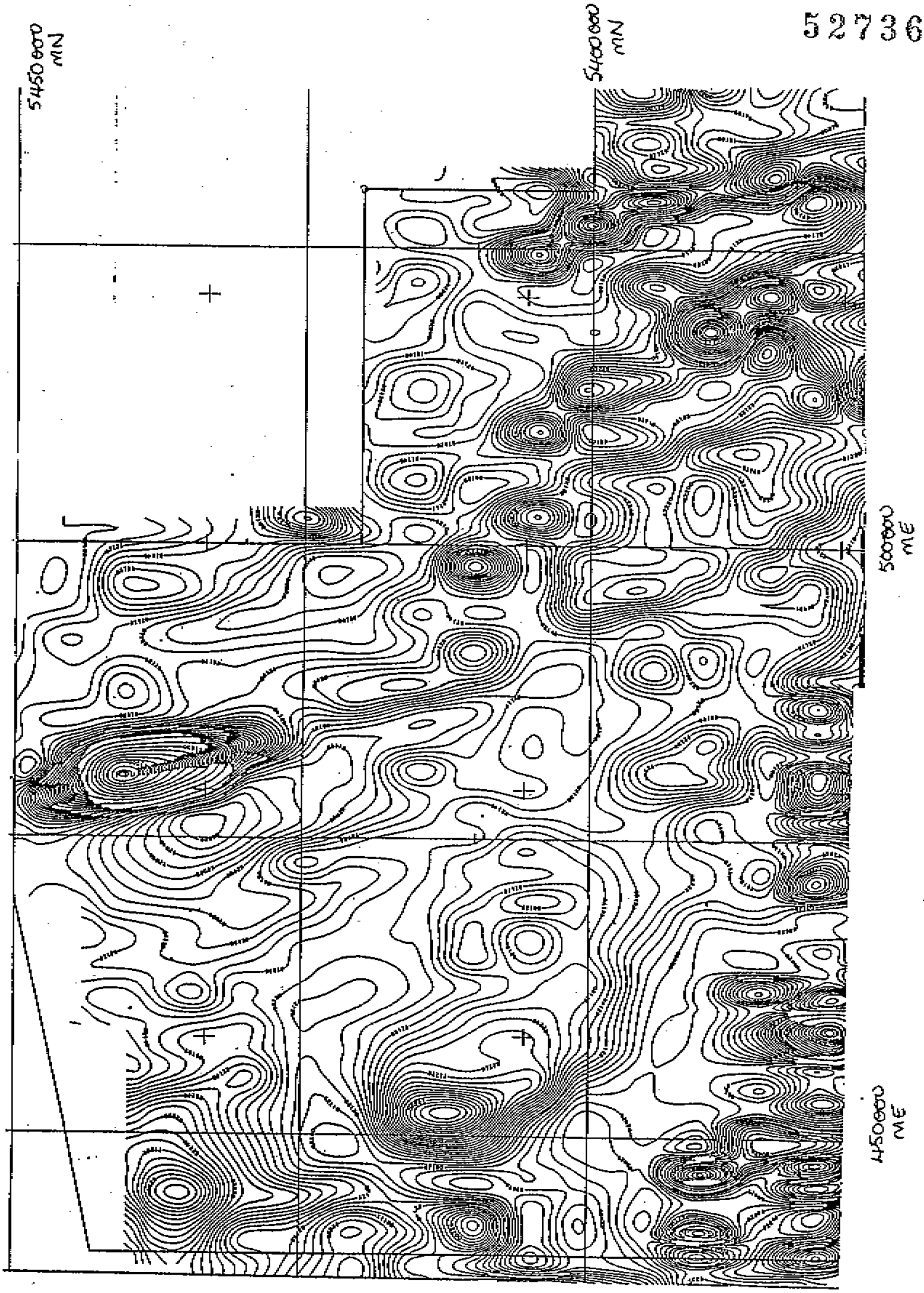
Location of EL 7/88

Figure 1

527364

Compilation of government magnetic surveys (predominantly AGSO)   Figure 2

527362



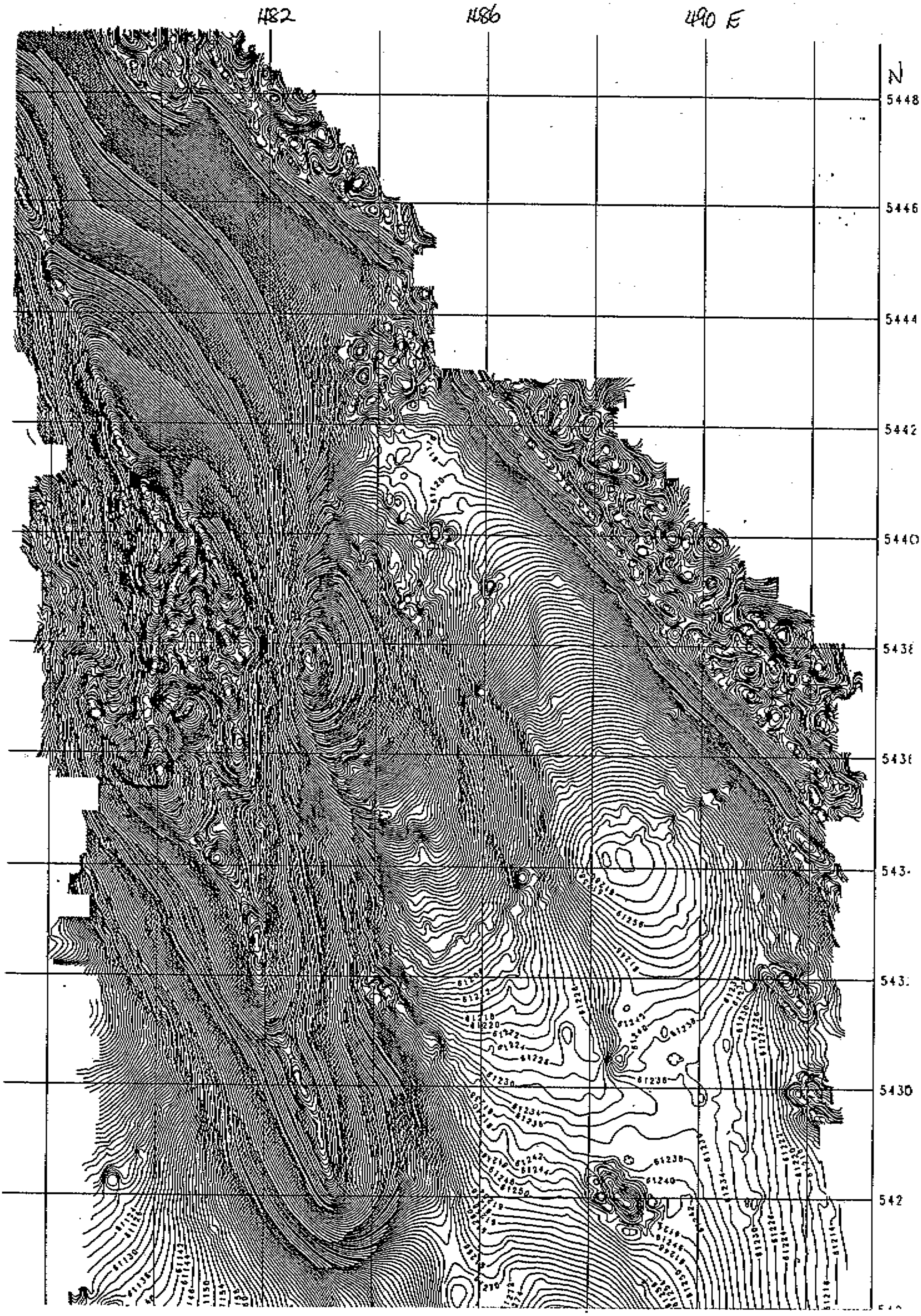
RESIDUAL AEROMAGNETIC ANOMALIES NORTHERN TASMANIA FIGURE 3

Conga Oil Survey

527363

Total magnetic field, Beaconsfield area.

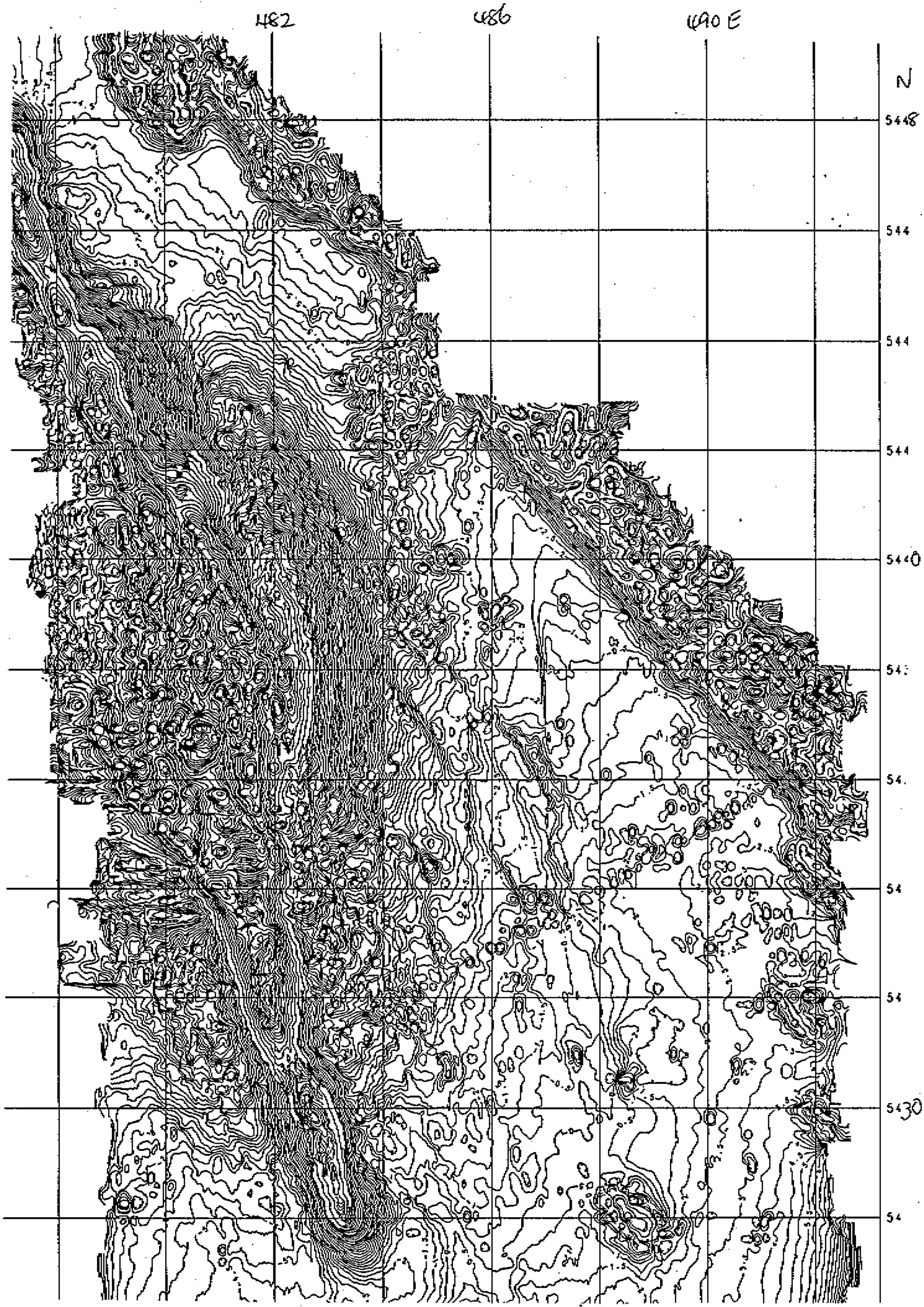
Figure 4



527364

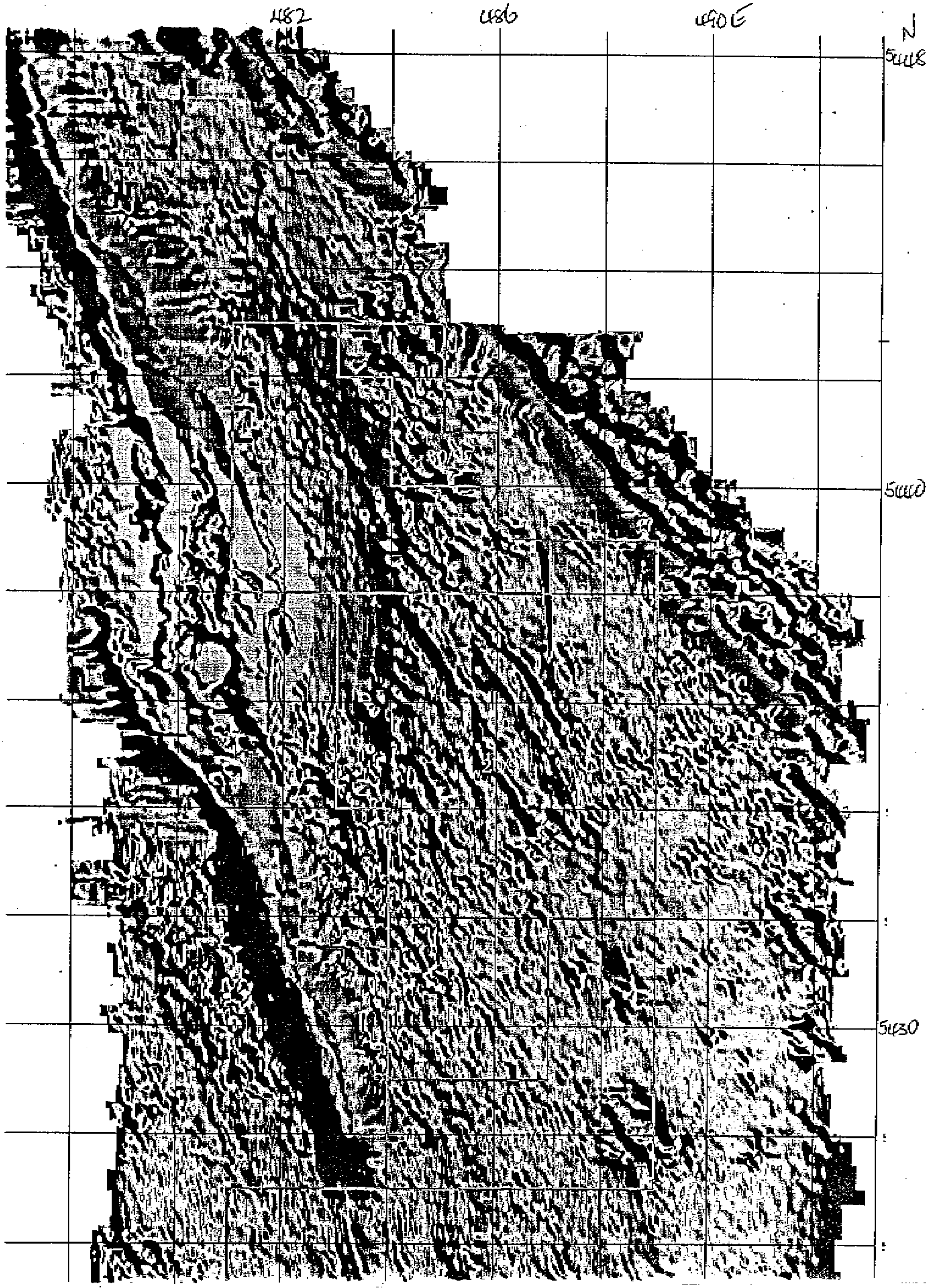
Residual magnetic field, Beaconsfield area
Continuation separation

Figure 5



Reproduction of image, residual magnetic field, Beaconsfield area
Northeast sun angle

Figure 6



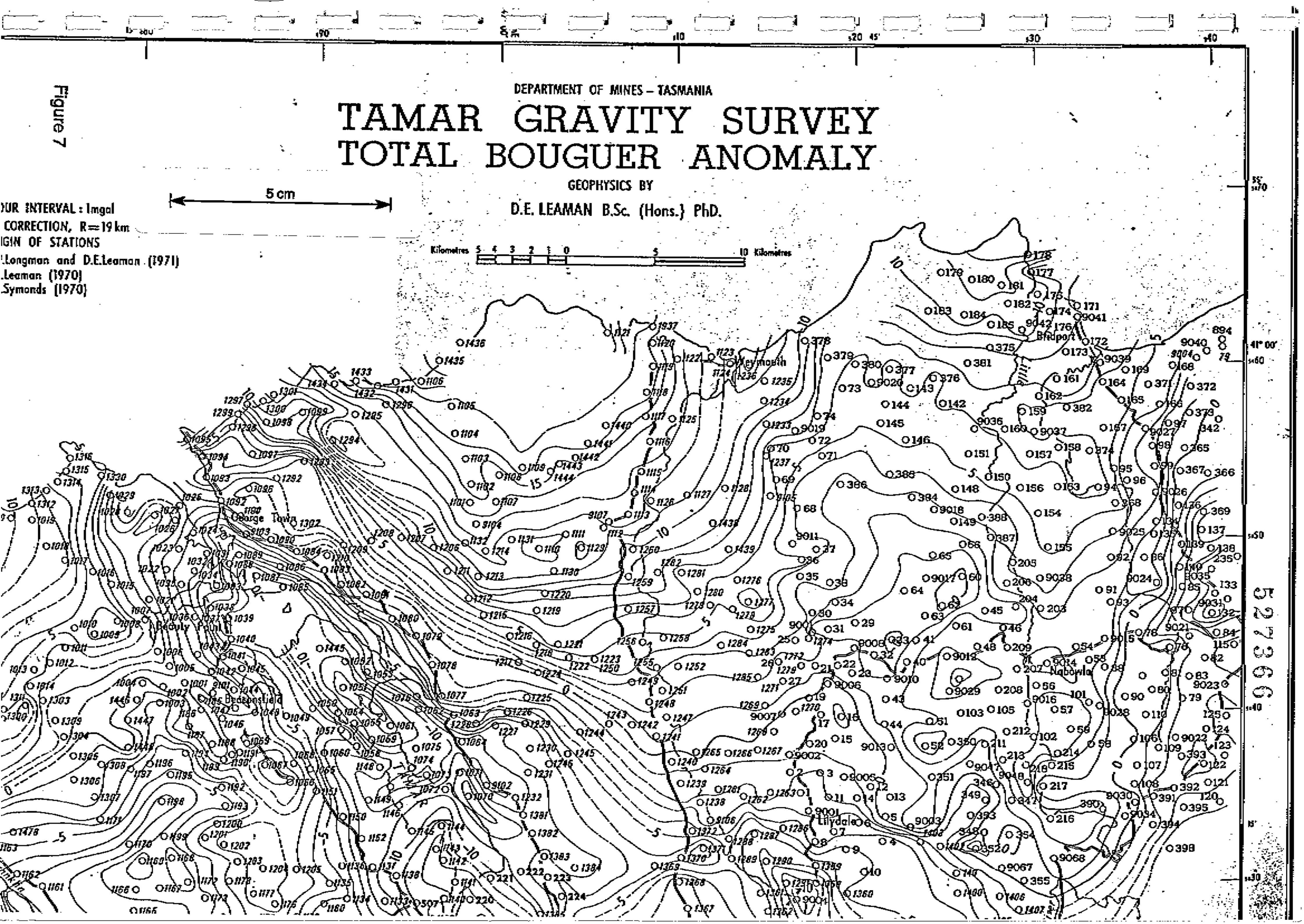
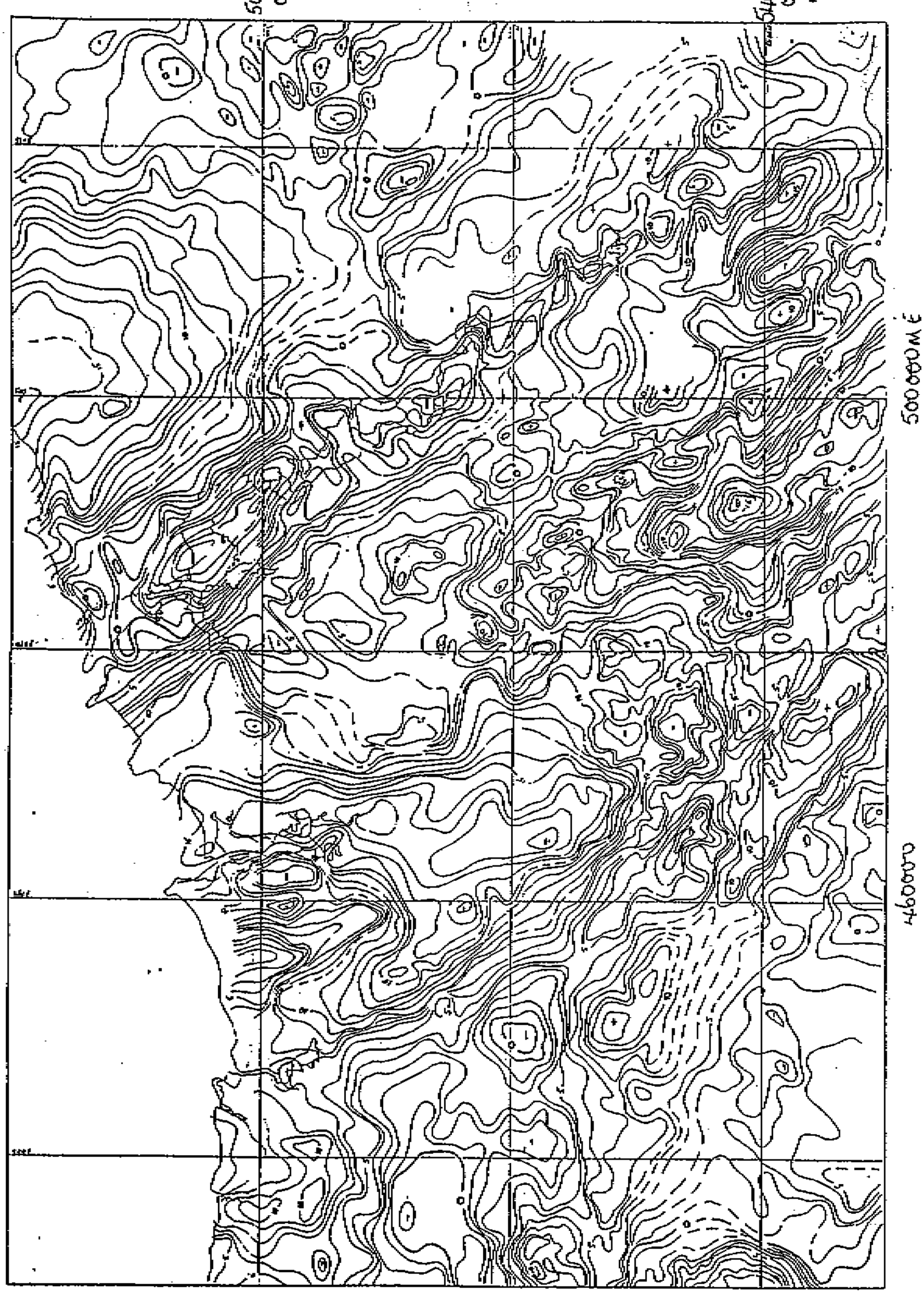

DEPARTMENT OF MINES – TASMANIA
TAMAR GRAVITY SURVEY
TOTAL BOUGUER ANOMALY
GEOPHYSICS BY
D.E. LEAMAN B.Sc. (Hons.) PhD.
5 cm
OUR INTERVAL : 1mgal
CORRECTION, R=19 km
IGIN OF STATIONS
.Longman and D.E.Leaman (1971)
.Leaman (1970)
.Symonds (1970)
Kilometres 5 4 3 2 1 0 5 10 Kilometres
George Town
Beauty Point
Beaconsfield
Weymouth
Bridport
Nabowla
Lilydale

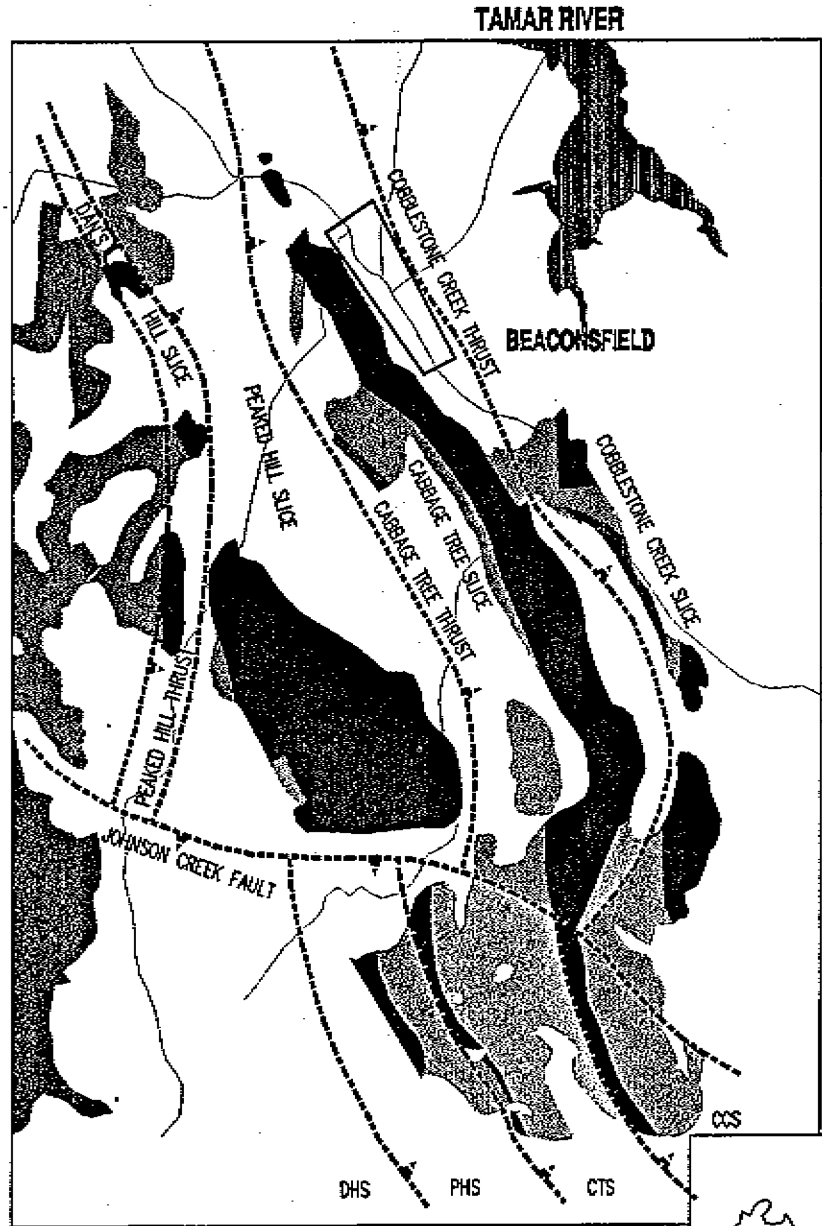
Figure 7

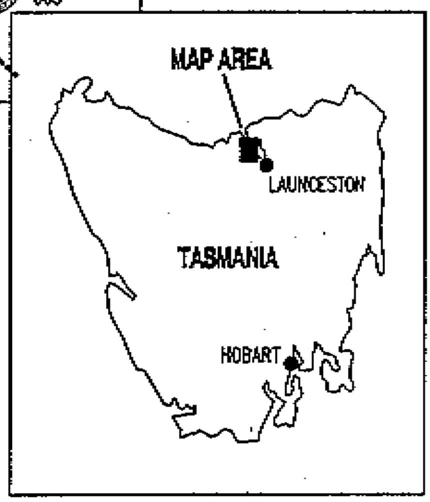
527367



RESIDUAL BOUGUER ANOMALY NORTHERN TASMANIA FIGURE 8
(after processing by Mantle91)

527368





LEGEND

- YOUNGER ROCKS
- DEVONIAN – CORN HILL BEDS
- ORDOVICIAN – FLOWERY GULLY FORMATION
- ORDOVICIAN – CABBAGE TREE FORMATION
- ORDOVICIAN – BLYTH'S CREEK FORMATION
- CAMBRIAN – DALLYS SILTSTONE WITH INTERCALATED VOLCANICS
- CAMBRIAN – ANDERSONS CREEK MAFIC ULTRAMAFIC COMPLEX
- PRECAMBRIAN COMPLEX – BADGER HEAD BLOCK

LARGE SCALE STRUCTURAL GEOLOGY MAP OF THE BEACONSFIELD AREA

NORTH

SCALE

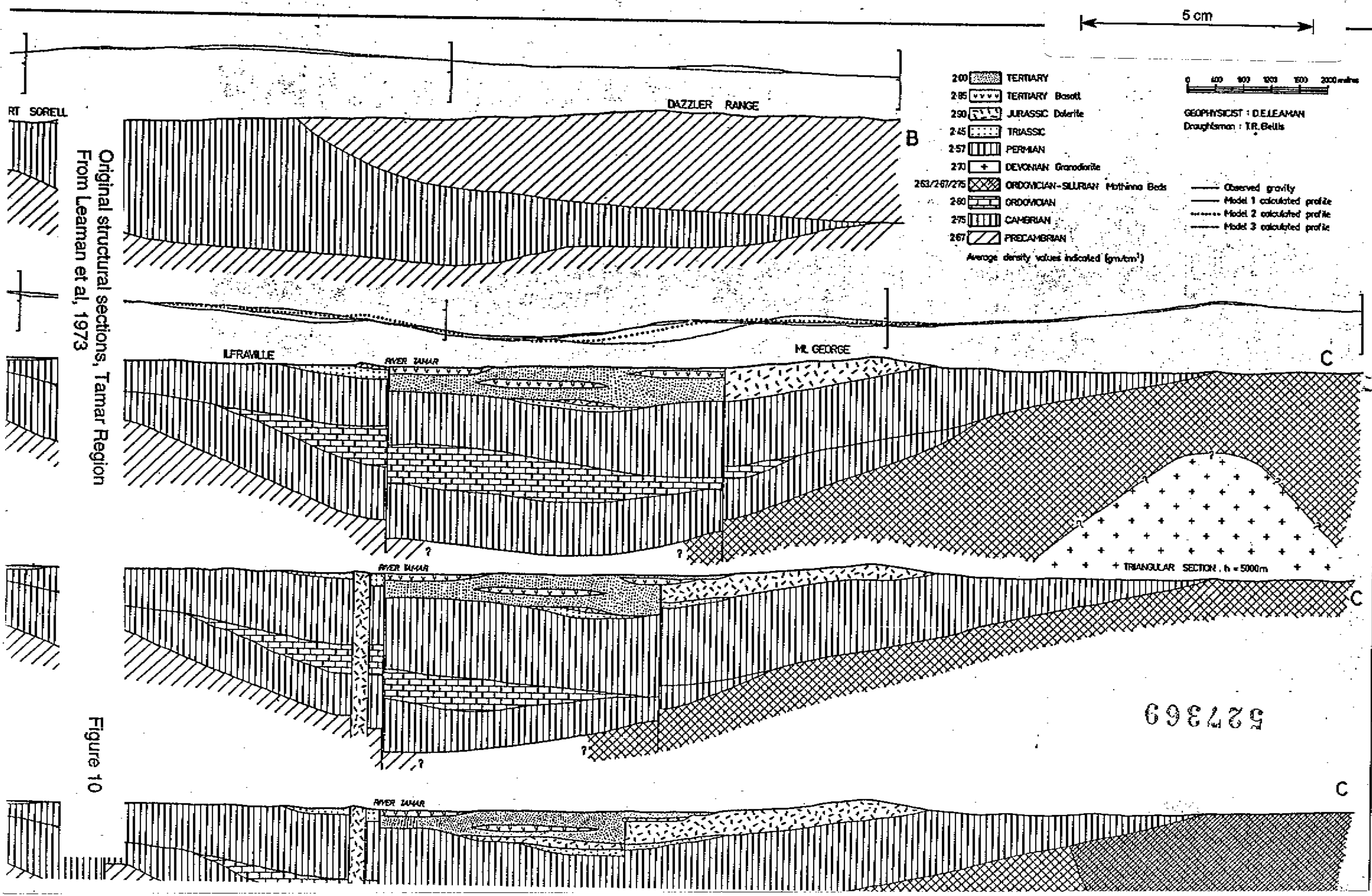
0 1 5

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

FIGURE 3.4

FIG 9

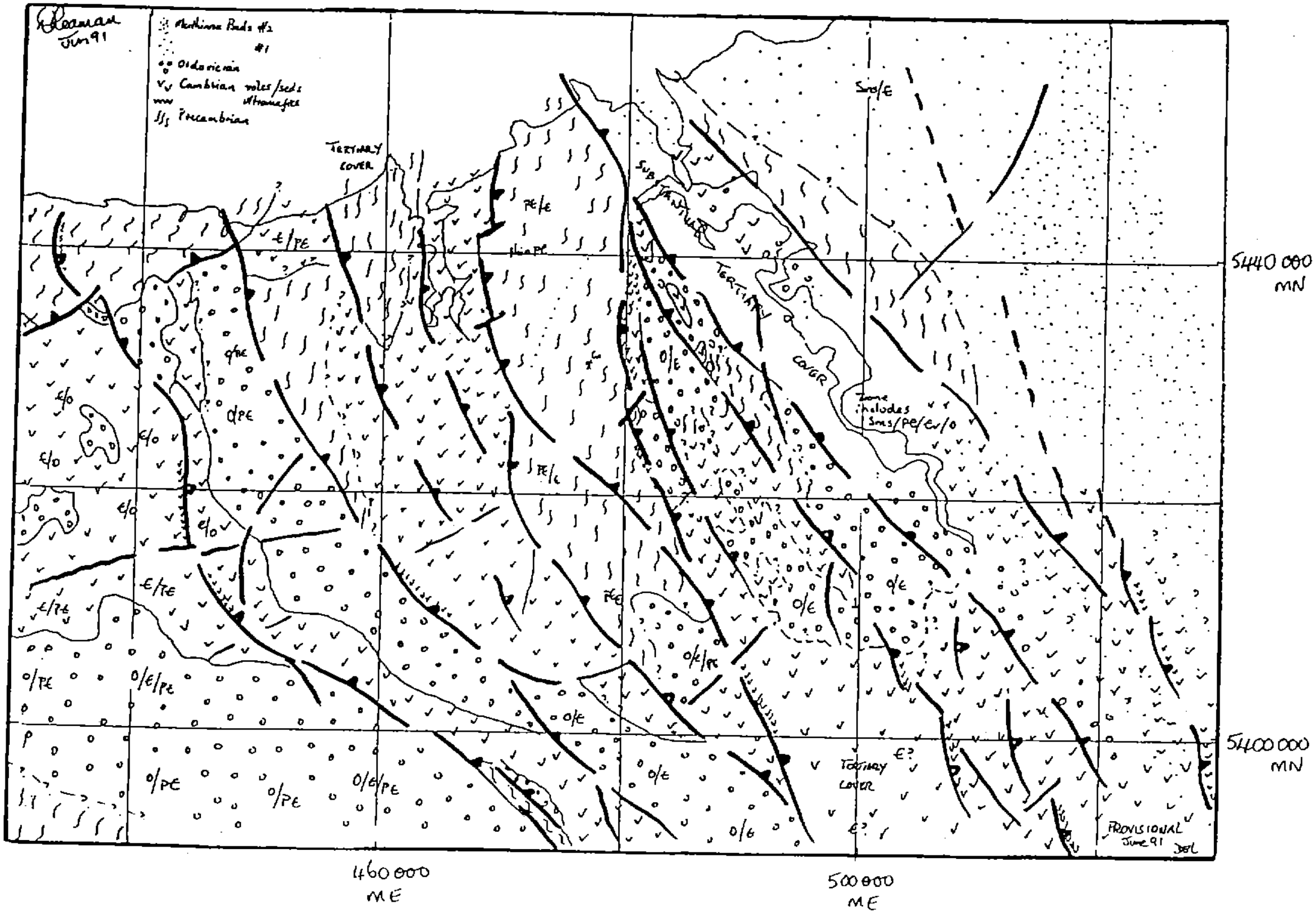
5 cm



Original structural sections, Tamar Region
From Learman et al, 1973

Figure 10

527369



SUMMARY OF PROVISIONAL INTERPRETATION NORTHERN TASMANIA
Distribution of lower Palaeozoic rocks as would be seen if younger rocks were stripped away.
FIGURE 11

527370

527371

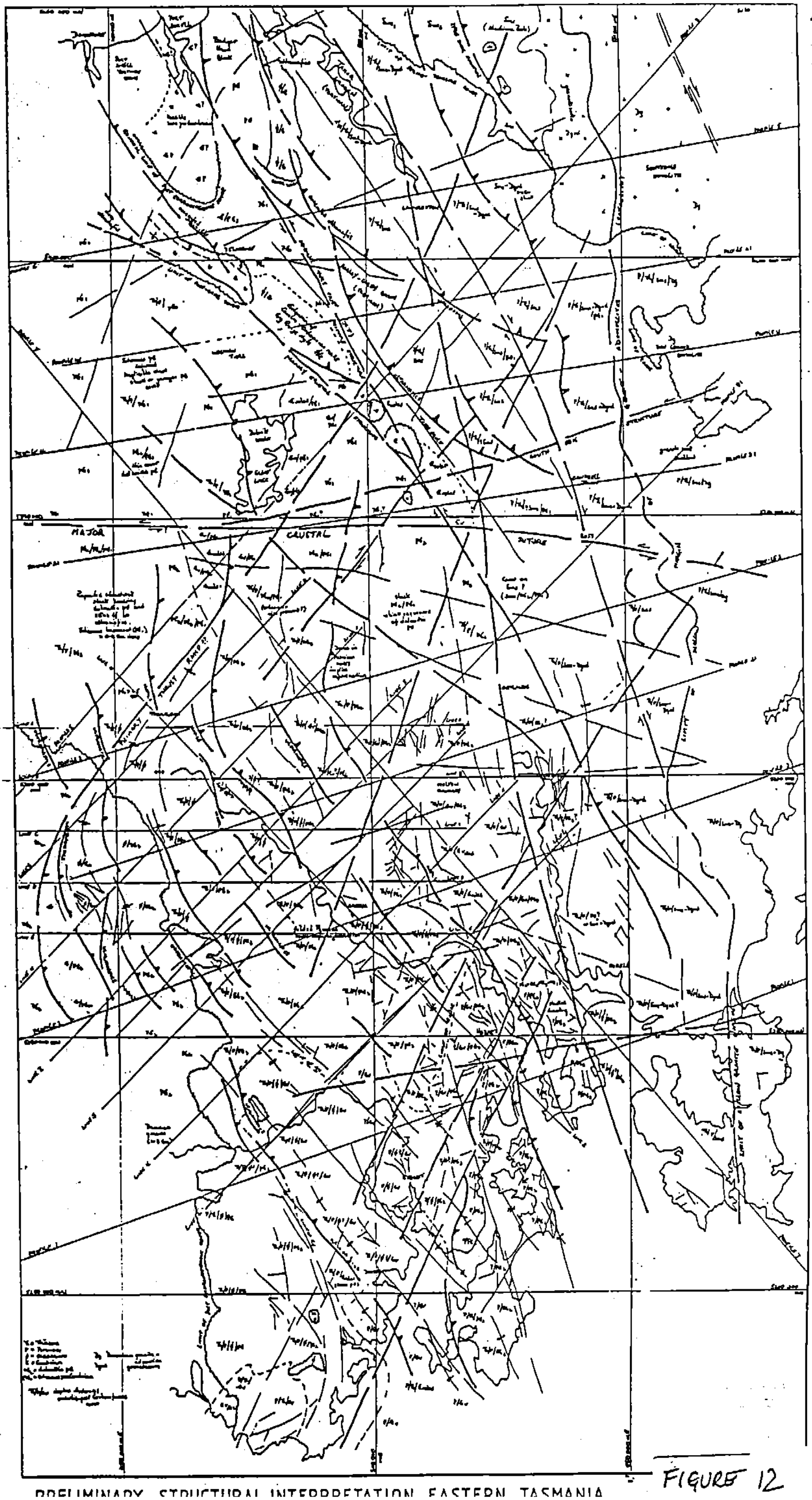
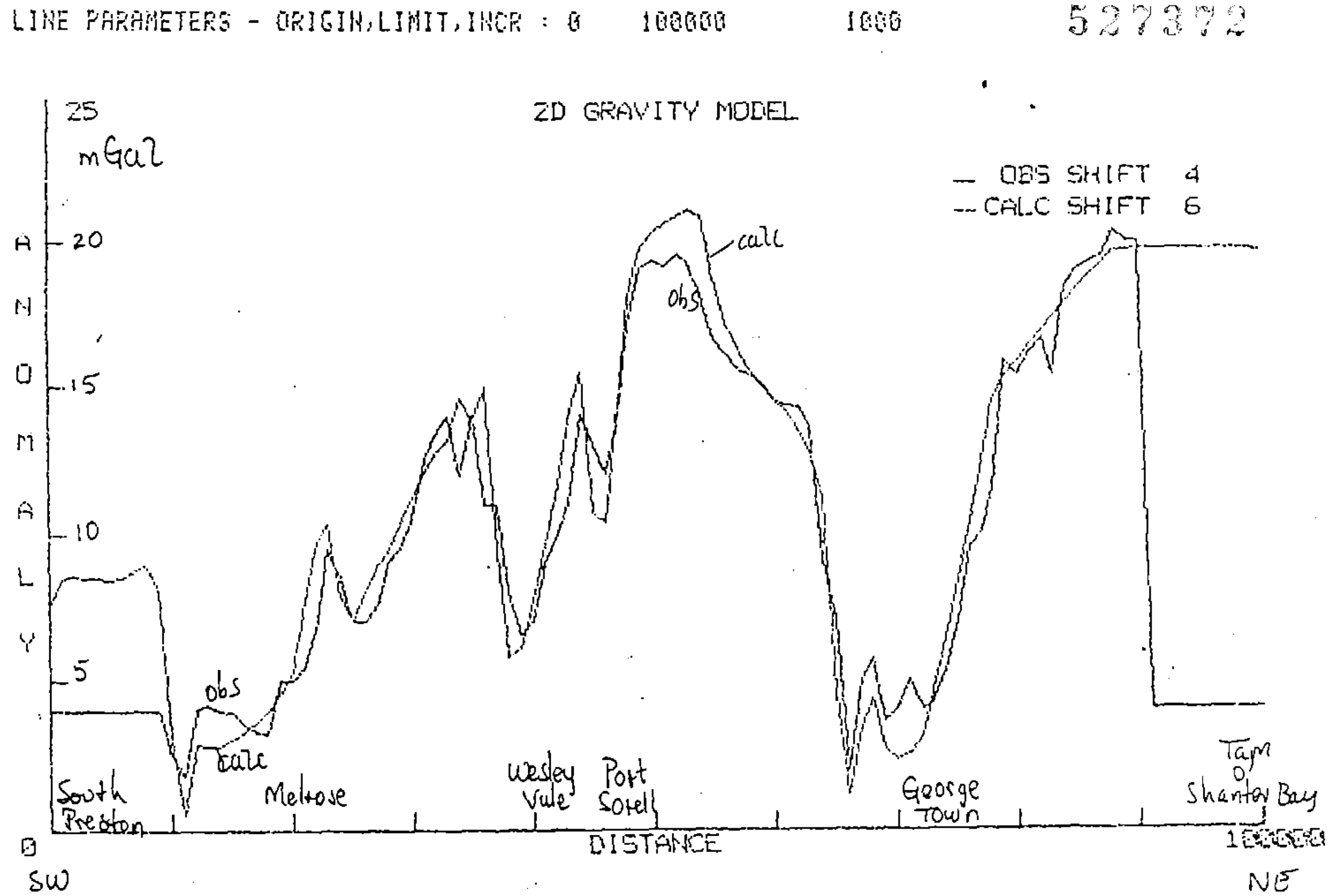
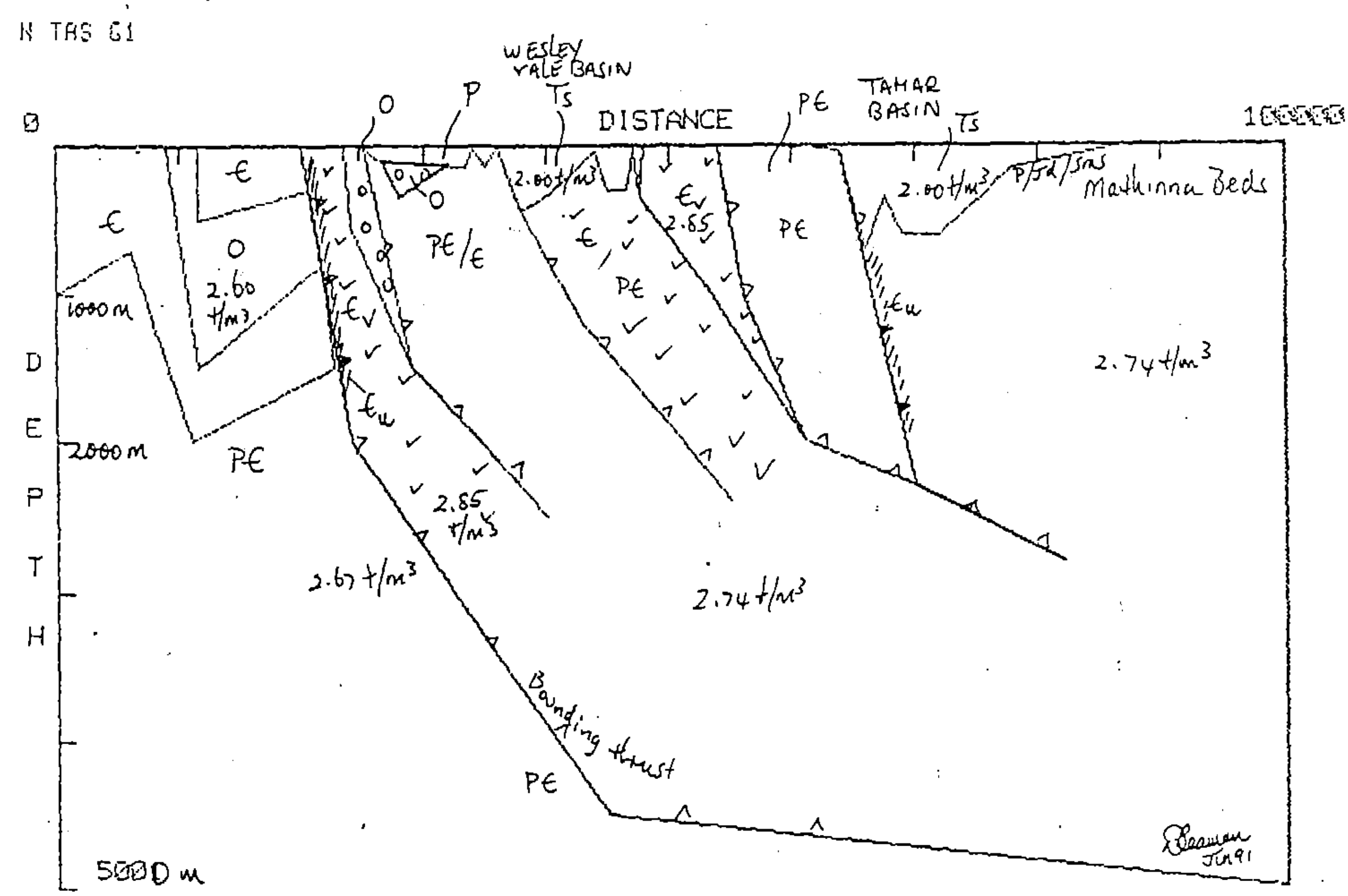


FIGURE 12

PRELIMINARY STRUCTURAL INTERPRETATION EASTERN TASMANIA

527372

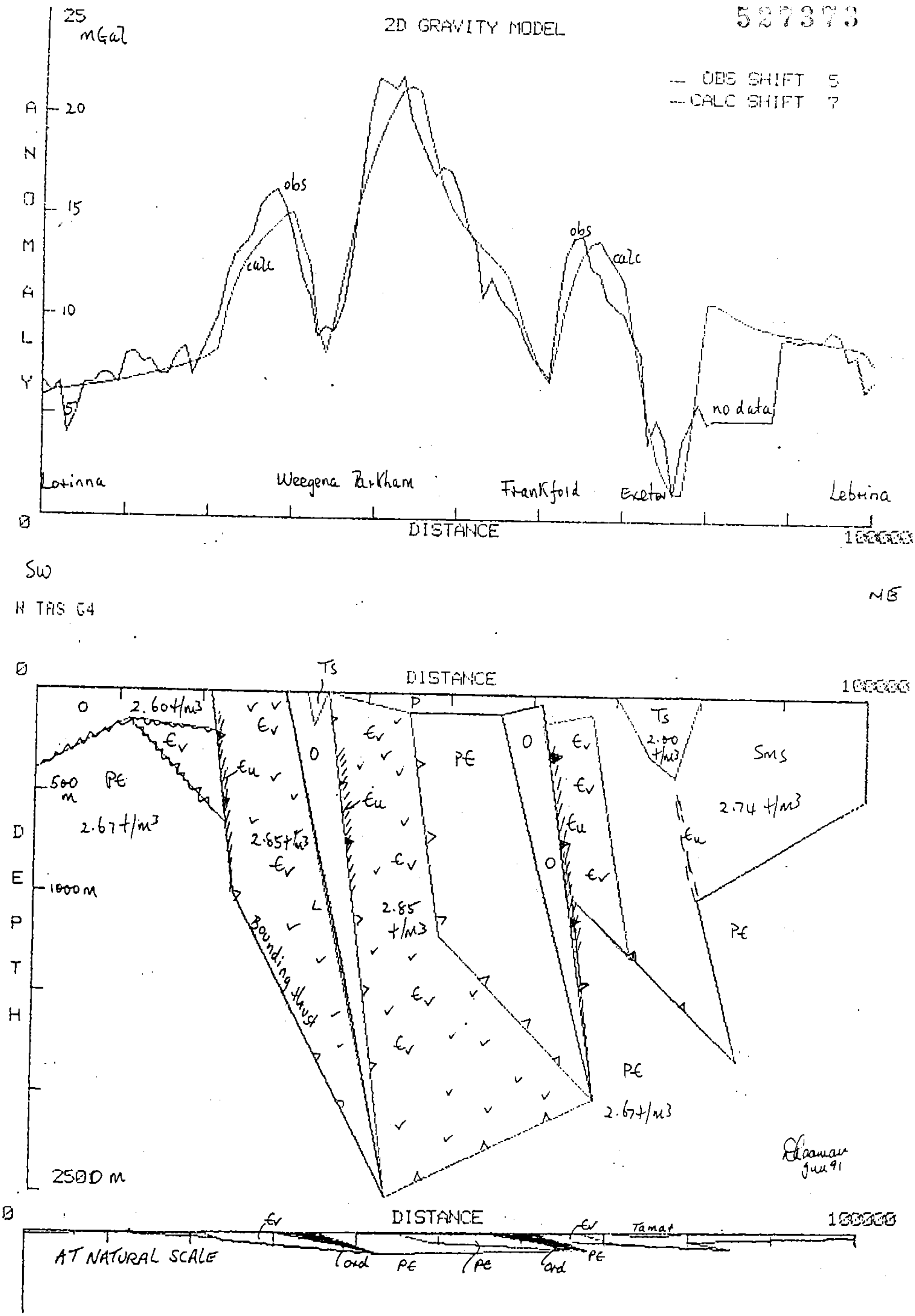




INTERPRETATION PRESTON TO BRIDPORT

FIGURE 13

527373



INTERPRETATION LORINNA TO LEBRINA

FIGURE 14

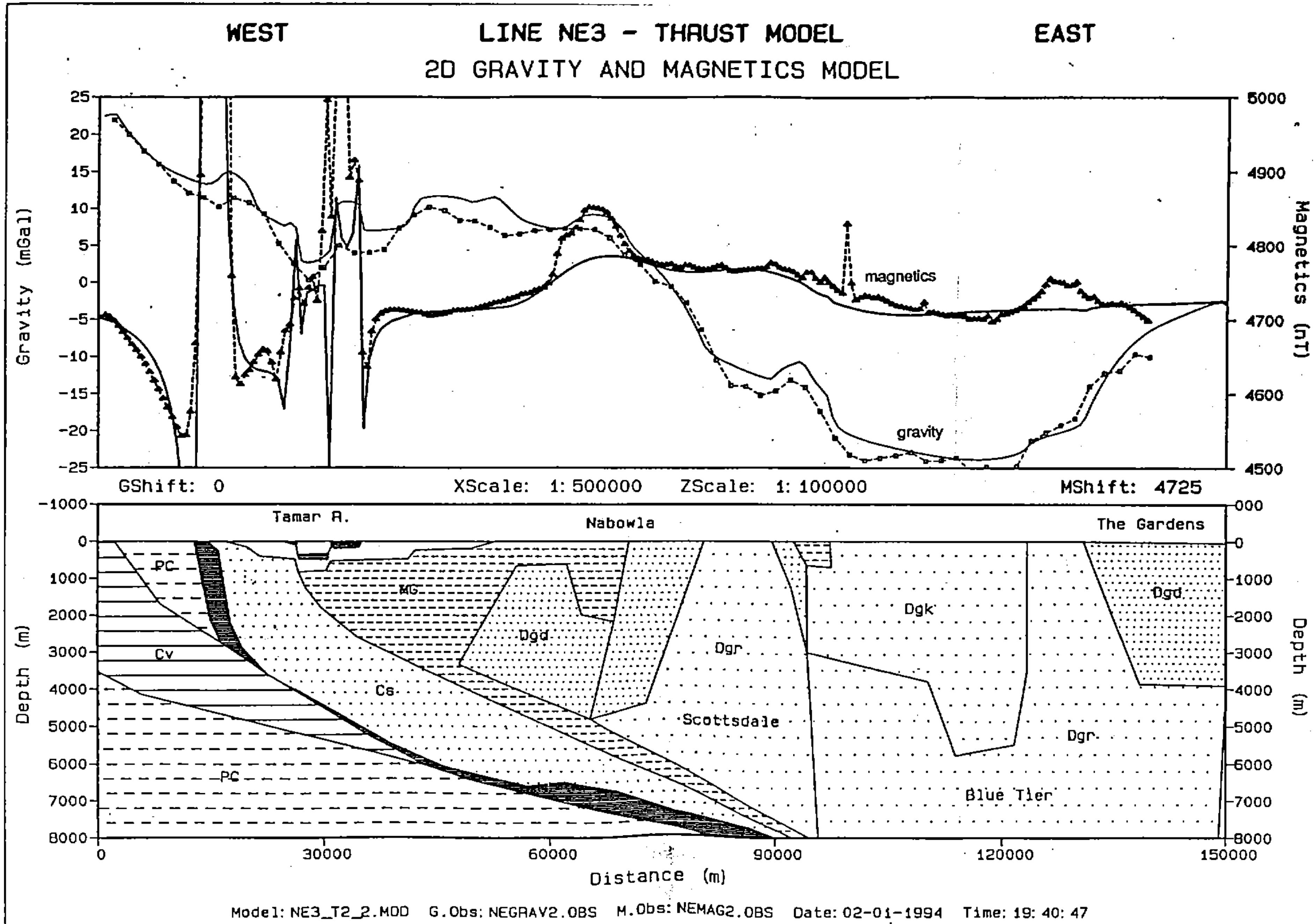
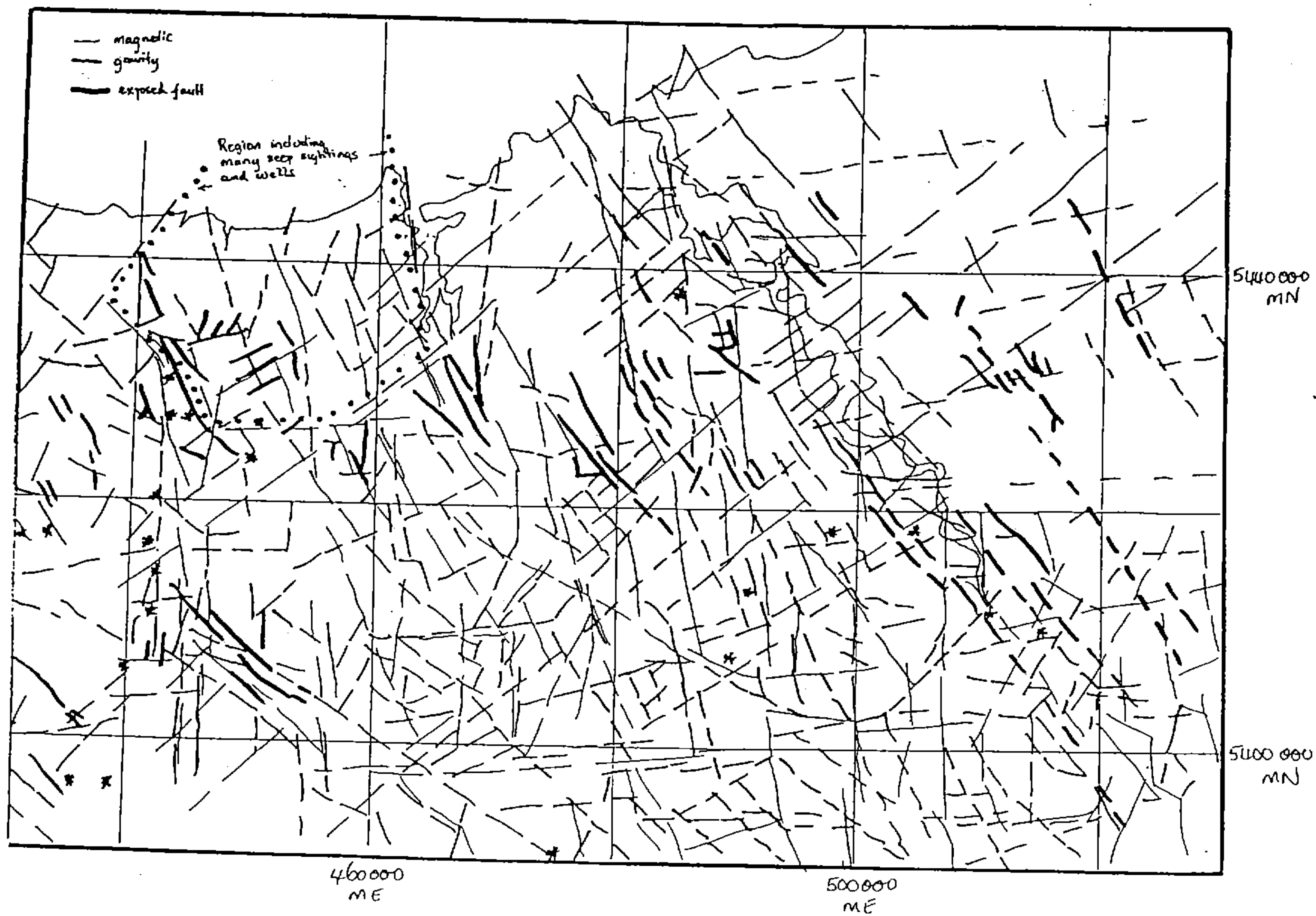
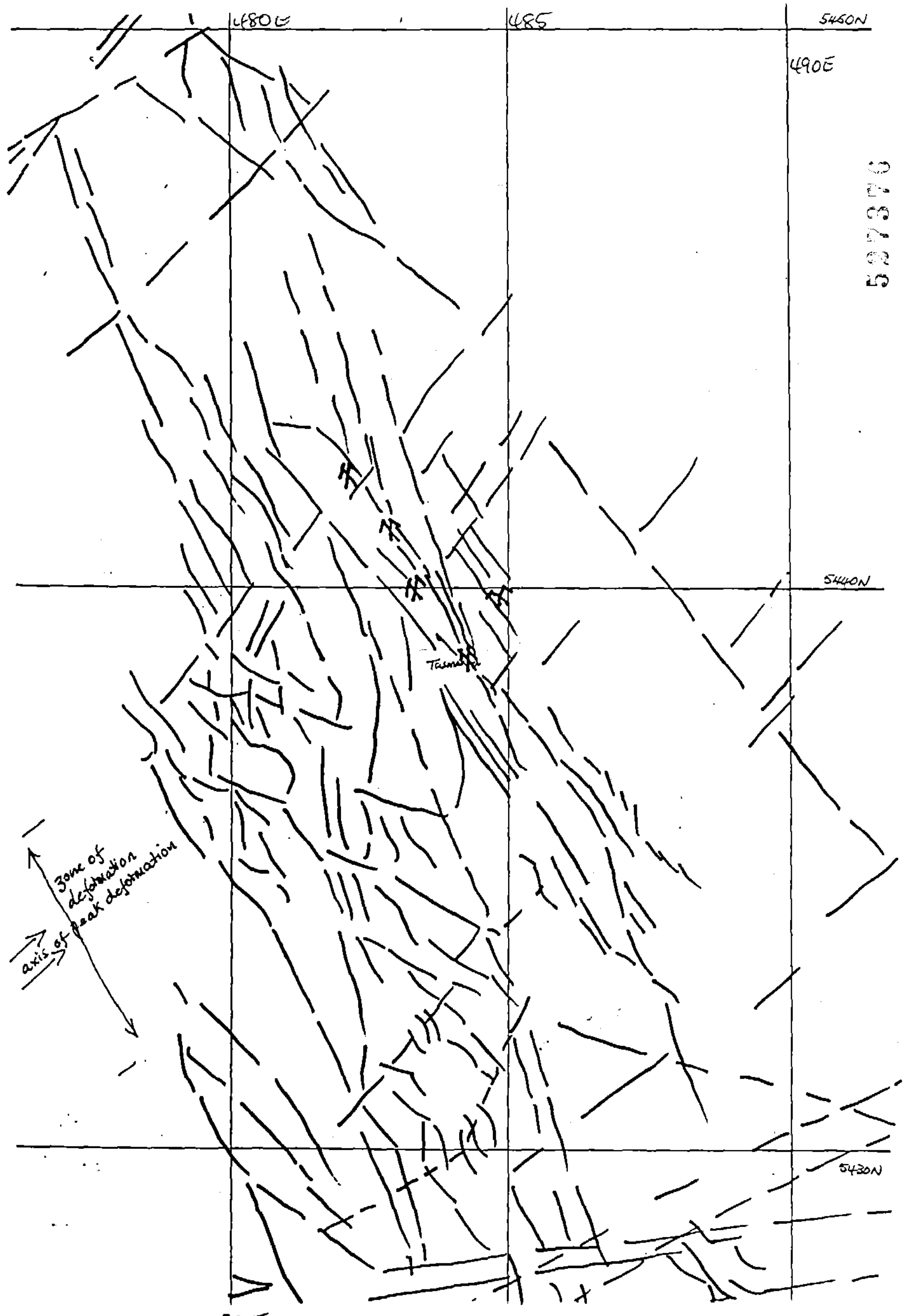


Figure 15 From Roach (1994)

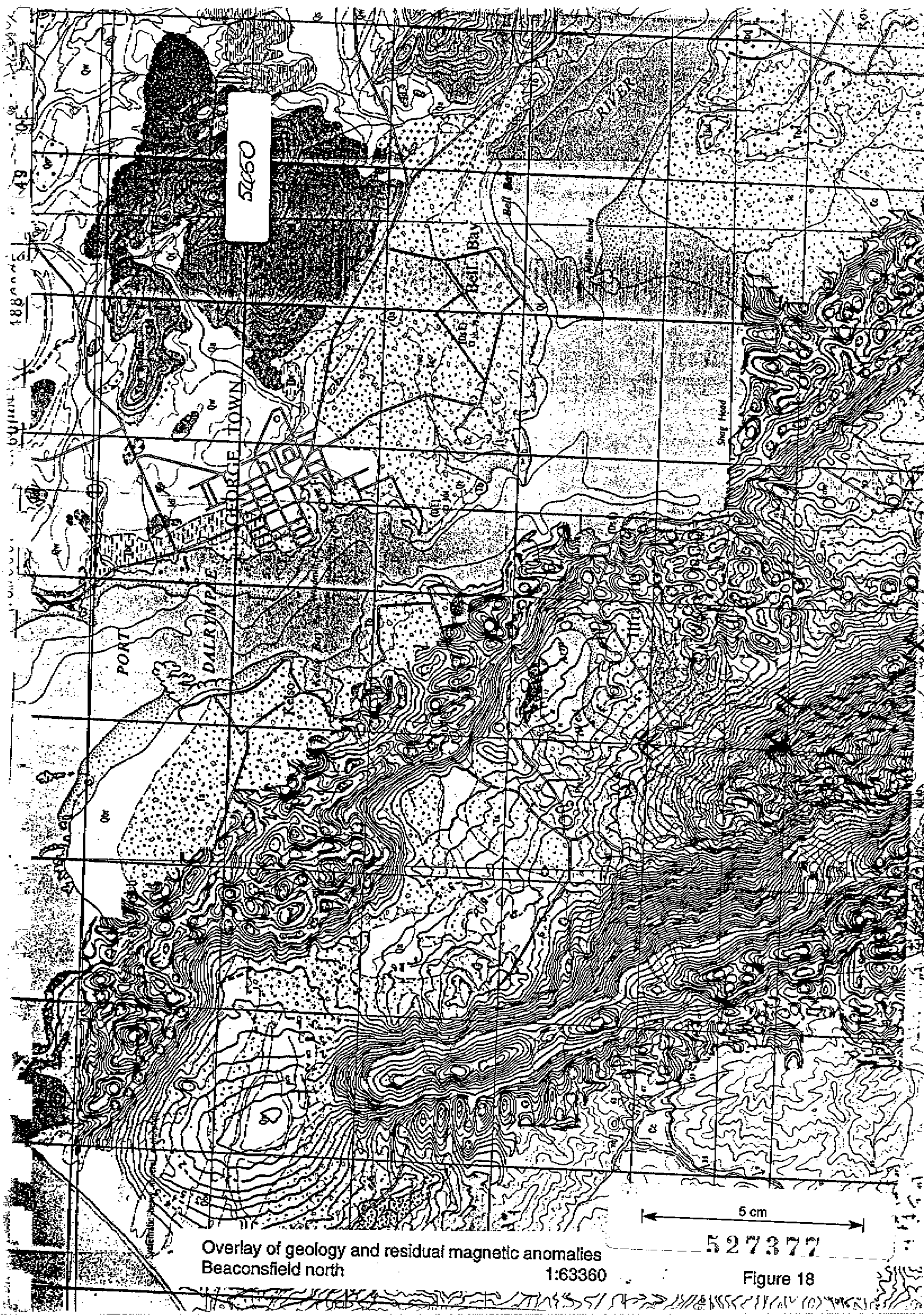


TRENDS RECOGNISED IN GRAVITY AND MAGNETIC DATA NORTHERN TASMANIA
(seepage sites marked *)
FIGURE 16



Trends inferred or observed in Beaconsfield magnetic data

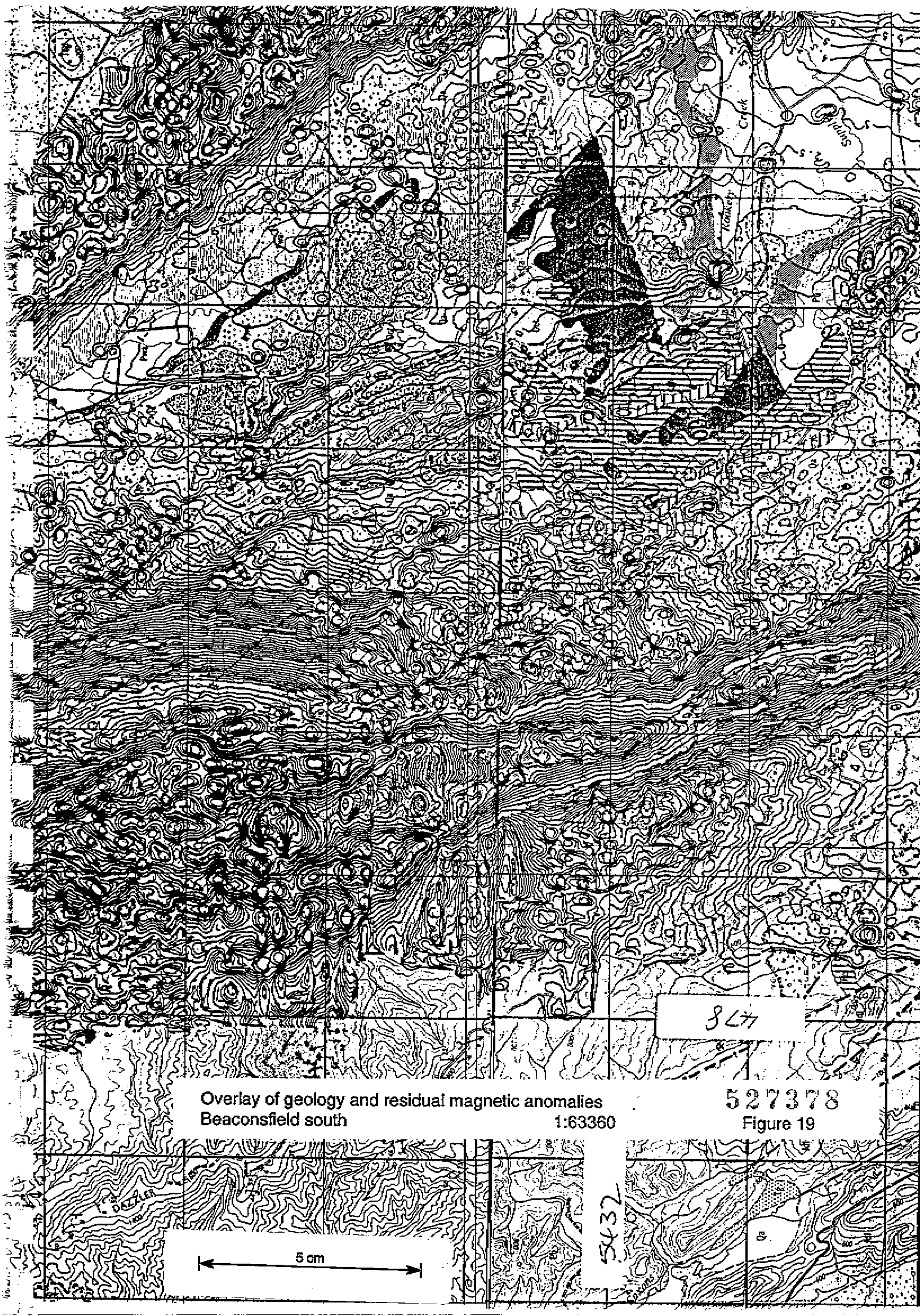
Figure 17



527377

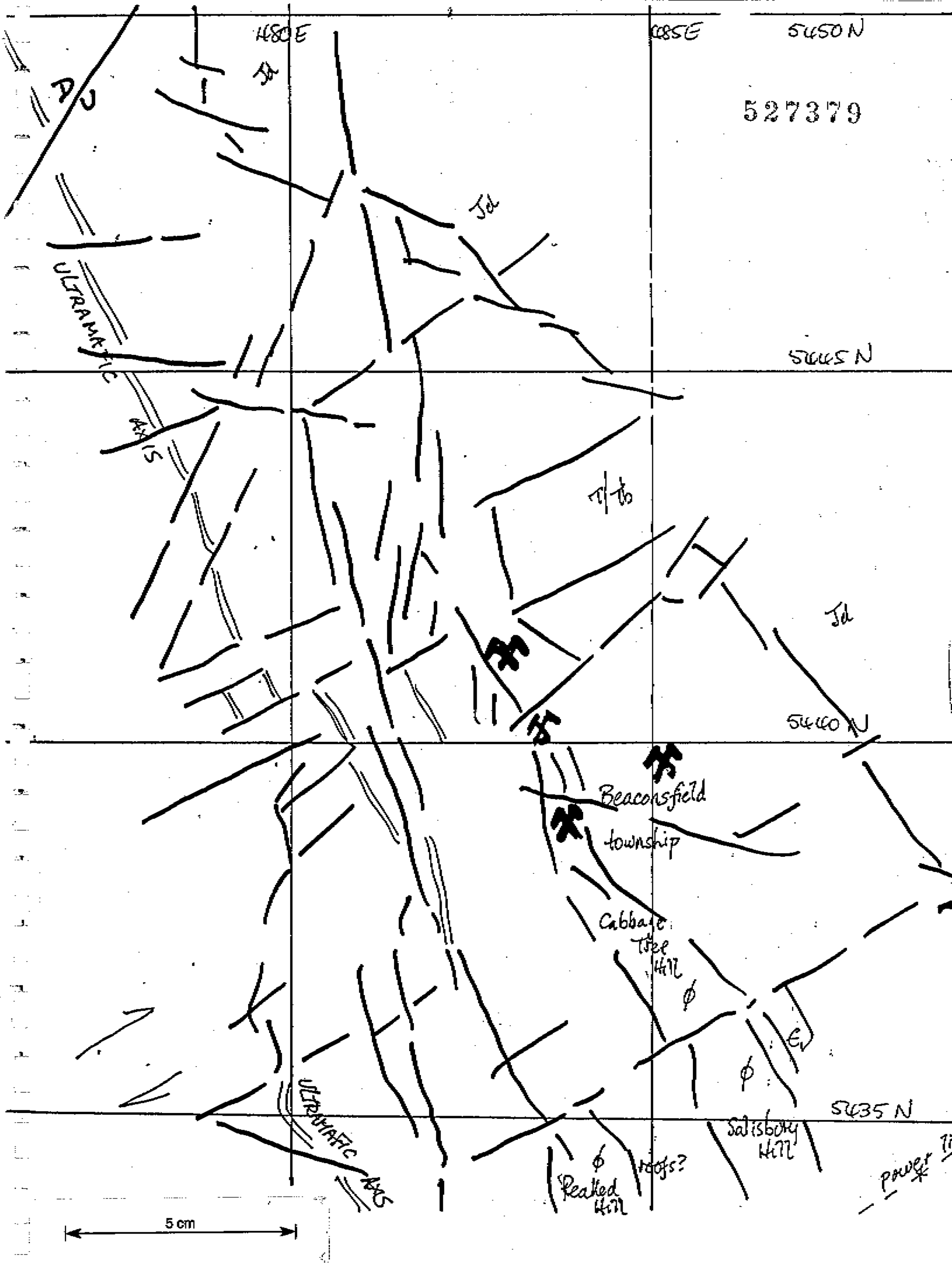
Overlay of geology and residual magnetic anomalies
Beaconsfield north 1:63360

Figure 18



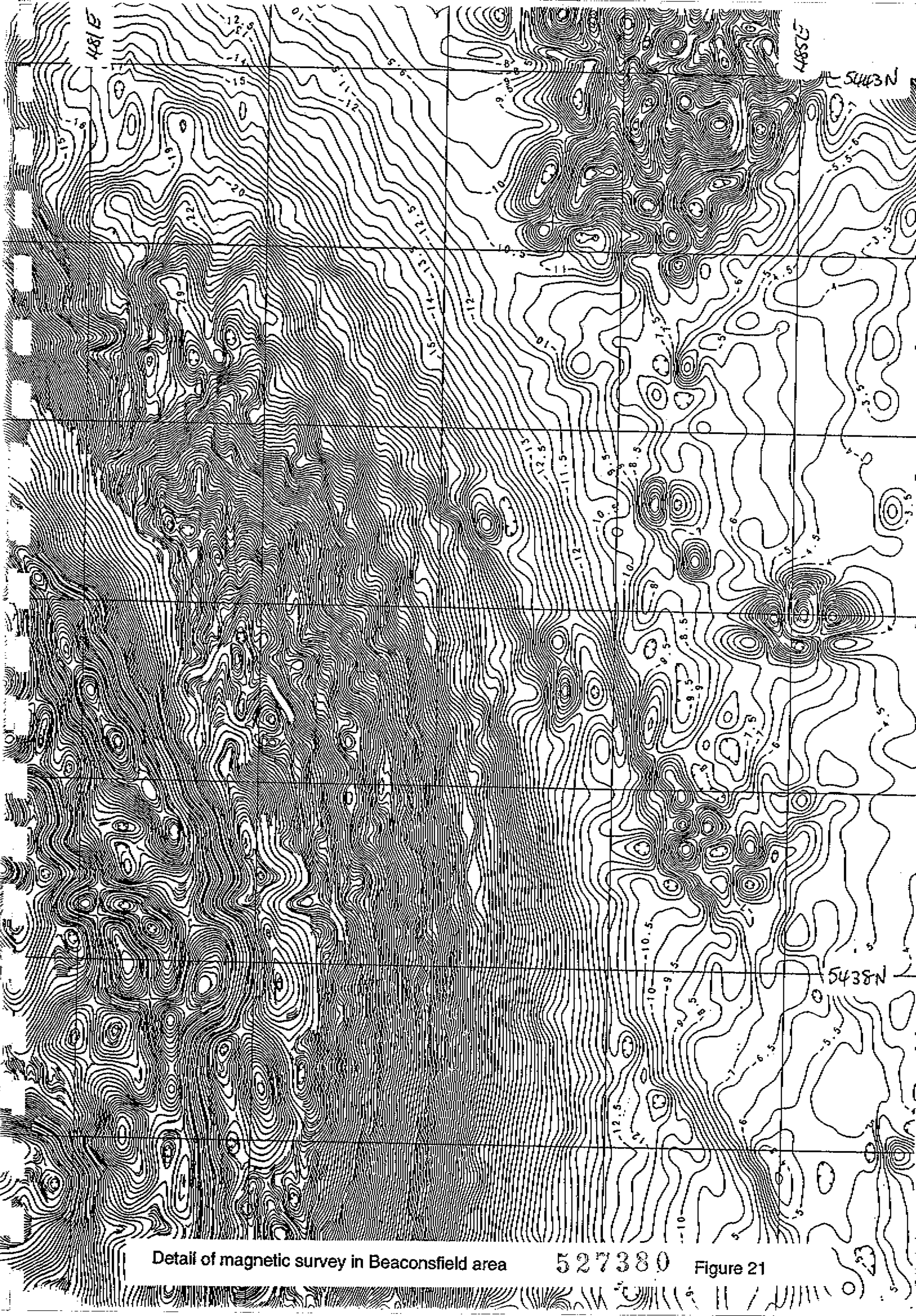
Overlay of geology and residual magnetic anomalies
Beaconsfield south 1:63360

527378
Figure 19

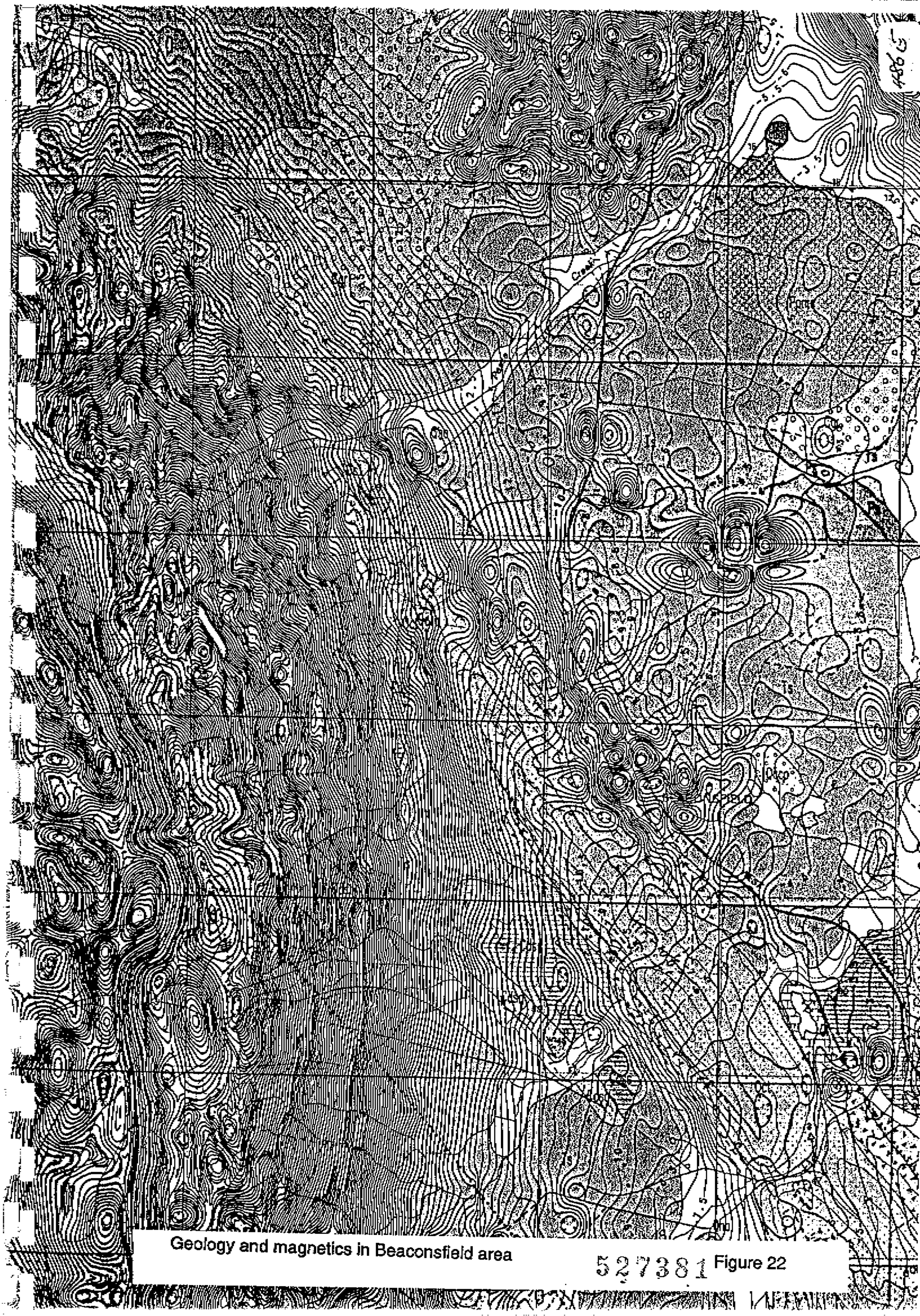


Structural summary based on 1:63 360 compilations

Figure 20



Detail of magnetic survey in Beaconsfield area 527380 Figure 21



Geology and magnetics in Beaconsfield area

527381 Figure 22

APPENDIX 6

WHITE

(Interpretation of a helicopter magnetic survey near Beaconsfield Mine Tasmania)

527383 98-4205B

TOORONGA RESOURCES PTY LTD

Interpretation
of a
Helicopter Magnetic Survey
Near Beaconsfield Mine
Tasmania

R.M.S. WHITE

TOORONGA RESOURCES PTY LTD.
207 Tooronga Road,
Terrey Hills N.S.W 2084

31 August 1998

527384

CONTENTS

1. **INTRODUCTION** 1

2. **SUMMARY** 1

3. **SURVEY** 1

4. **DATA PROCESSING** 2

5. **INTERPRETATION** 2

6. **DISCUSSION** 3

7. **TARGETS** 4

8. **RECOMMENDATIONS** 5

9. **APPENDIX 1 Flying and Processing Specifications.** 6

10. **APPENDIX 2 IMAGES.** 8

FIGURES

Figure 1 Fixed wing and Heli mag Image.
Figure 5.1 Profiles of RTP and enhanced data.
Figure 5.2 Magnetic Trends and Structures.
Figure 6.1 Interpretation.
Figure 7.1 Targets.

1. INTRODUCTION

In June 1998, UTS Geophysical surveys, on behalf of the Beaconsfield Joint Venture, flew a Helicopter airborne magnetic survey in the vicinity of the mine in order to better define the geology and structures.

The area has been previously been flown with a fixed wing magnetic and radiometric survey flown east west.

Data processing and enhancements has enabled the detection of subtle geological features and structures.

Previous work will have located outcropping mineralisation within 15 Km of the mine so current exploration will have to be directed at covered areas or exploring more deeply in outcropping areas.

2. SUMMARY

The recent Helicopter magnetic survey allowed the detection and definition of much finer structural features than the previous fixed wing survey, especially west of the current mining operations. This area is traversed by a series of north east faults which offset the local geology and may be host to mineralisation.

Twenty one target areas have been identified which represent possible repetitions of the Tasmania Reef.

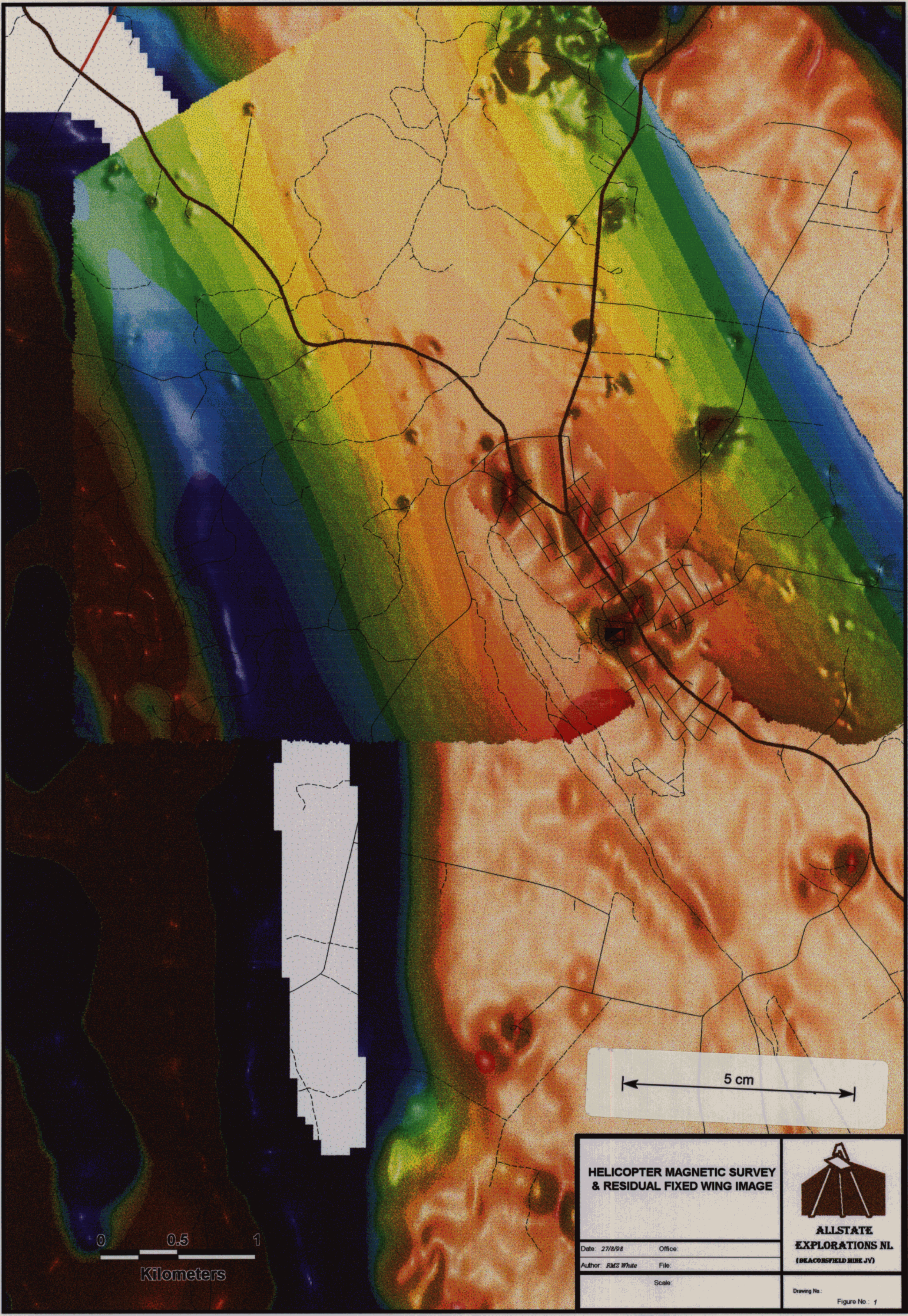
3. SURVEY

The flying and processing specifications are listed in Appendix 1. The survey was flown at 40m terrain clearance on lines 50m apart. The lines were flown at 060 degrees, approximately at right angles to the geology. Unfortunately this flying direction is parallel to the structures carrying mineralisation. This makes it difficult to be certain if features seen in the data are due to structures or small pulls in the data. If the area is ever reflown the flying direction should be east west so that critical features do not lie parallel to flight lines. The town should be flown separately, at a higher altitude, and the data downward continued then merged with the rest of the survey.

The magnetic data in the survey is generally of good quality. It suffers from cultural noise due to houses, sheds etc.

DTM data collected over water with the UTS system has a problem with the radar altimeter. This may account for the area in the data that reports as below sea level.

527386


5 cm
0
0.5
1
Kilometers
HELICOPTER MAGNETIC SURVEY
& RESIDUAL FIXED WING IMAGE
Date: 27/8/98
Office:
Author: RMS White
File:
Scale:
ALLSTATE
EXPLORATIONS NL
(BEACONSFIELD MINE JV)
Drawing No.:
Figure No.: 1

527387

4. DATA PROCESSING

Figure 1 shows a Reduced To the Pole, RTP, image of the helicopter magnetic data superimposed on an image of the residual data from the fixed wing survey. The image is dominated by the large magnetic feature to the west of the current mine. This ultramafic body dips east towards the mine and the magnetic gradient caused by this feature masks more subtle features.

In order to enhance the subtle features, the helicopter magnetic data was subjected to numerous processes. The data was first filtered to remove deep-seated features and then the residual magnetic features enhanced.

Two filtering methods were used. The first was a first vertical derivative (1vd). The second method was a gaussian filter of various widths. The results of these operations can be seen in the images in Appendix 2.

The data was further enhanced by the application of a Automatic Gain Control (AGC) operator. This has the effect of enhancing low order features and suppressing larger features. The result of the various operations can be seen in the images in Appendix 2.

Various colour images and sun angle images were produced as an aid to extracting geological and structural information.

5. INTERPRETATION

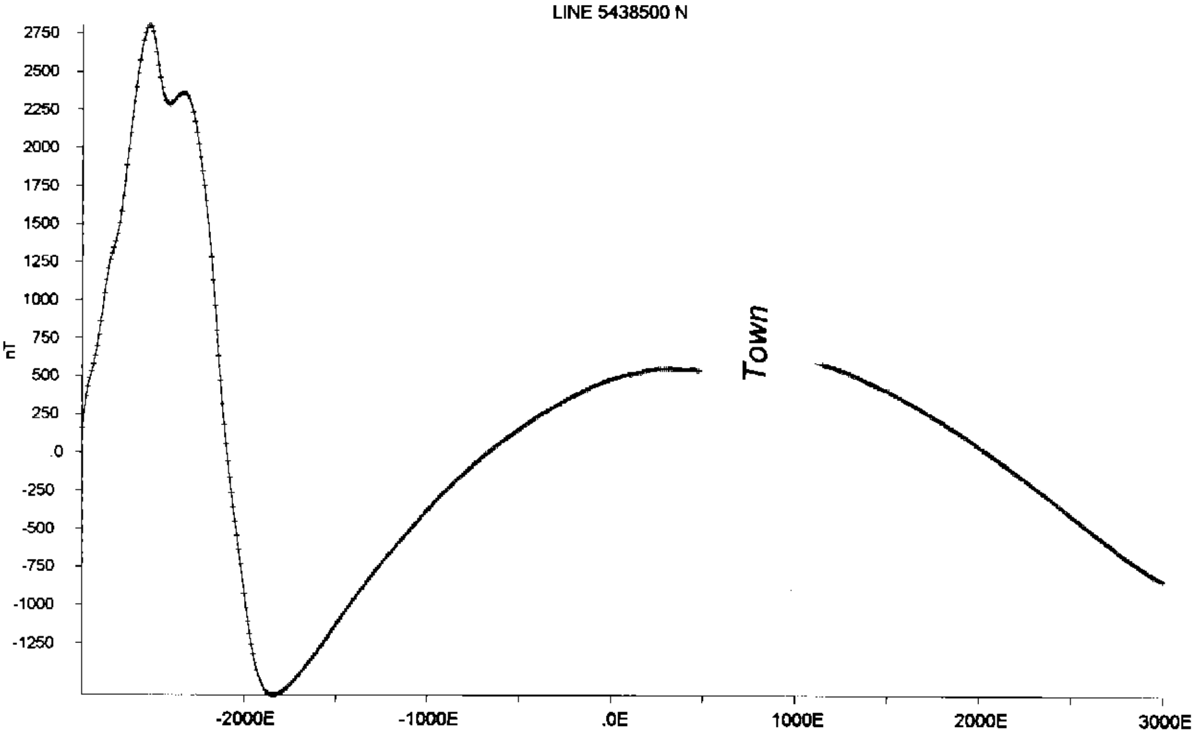
The area of interest consists of rocks of low magnetic susceptibility so that any features seen, both geological and structural, will be very small and down in the noise level of the survey. Cultural features such as sheds and houses produce much larger responses than the geology. If aerial photography is available then the photos should be scanned in and corrected for distortion. These will make a good base for geological and geophysical interpretation and also the location of cultural noise.

The geological responses are typically less than 1 nT while the houses/sheds are typically 10nT. Figure 2 shows profiles of the RTP data along a line and the data after the application of a 50m filter and AGC. The geological signal is within or close to the noise level of the survey and care has to be taken extracting information from these images.

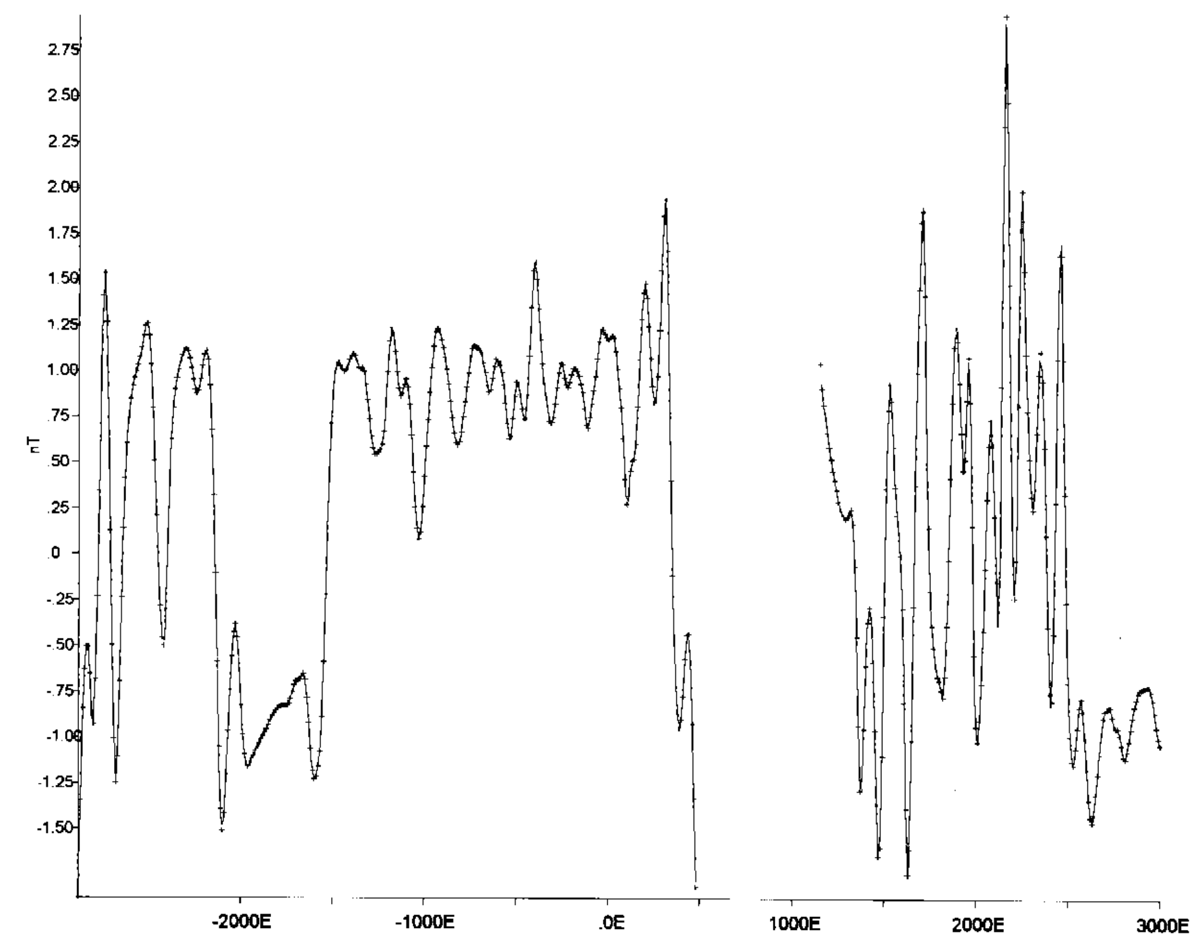
The main geological features noted in the data include the ultramafic complex, seen on the western side of the data and the late basalts, seen in the north east of the data.

Magnetic Data Before and after Enhancement

527388



RTP Magnetic Profile

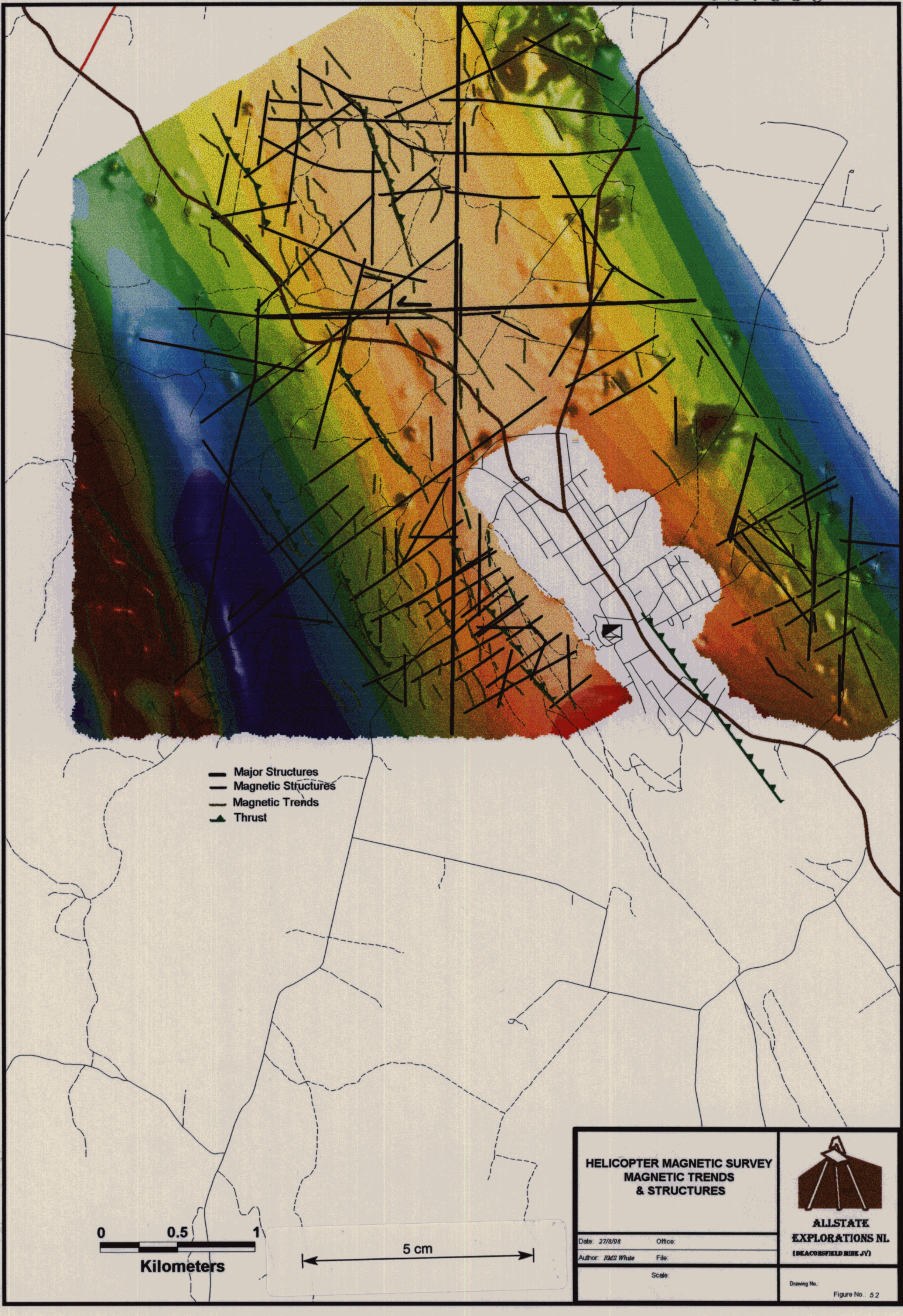


AGC 50m of 50m Residual of RTP data

0E(Profile) = 483800E(AMG)

Figure 5.1

527389



Major Structures
Magnetic Structures
Magnetic Trends
Thrust
0
0.5
1
Kilometers
5 cm
HELICOPTER MAGNETIC SURVEY
MAGNETIC TRENDS
& STRUCTURES
Date: 27/8/98
Office:
Author: RMS White
File:
Scale:
ALLSTATE
EXPLORATIONS NL
(BEACONSFIELD MINE JV)
Drawing No.:
Figure No.: 5.2

The sediments near the mine are magnetically very quiet and are only just discernible in the enhanced data. They strike north west and are locally off set by orthogonal structures (Figure 5.2). The geology is mapped out by the digital terrain data better than in the magnetic data in some instances.

The major structures (Figure 5.2). noted in the data are an east west set and a north south structure. The north south structure is late and does not appear to be off set by later movement. This feature is most notable in the DTM data.

The east west structure has a possible off set of 1Km; north block west.

The area around the mine shows a series of parallel structures, approximately 060 degrees. They off set the local geology but it is difficult to determine the amount of displacement. The possible direction of displacement is shown on Figure 5.2. These results need to be calibrated with known outcrop geology.

6. DISCUSSION

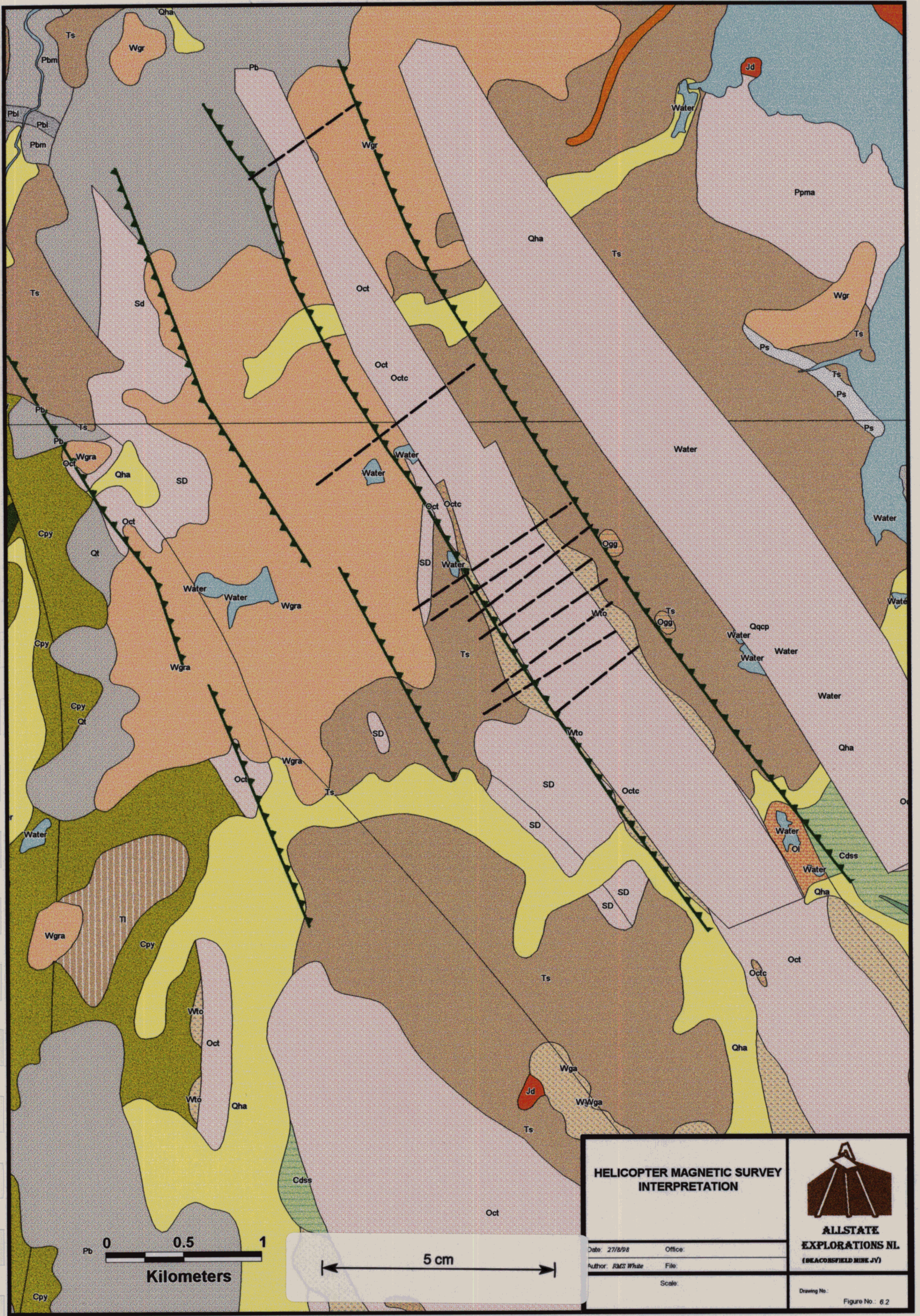
A series of NNW thrusts are defined by a characteristic magnetic signature, probably due to alteration (serpentinisation?) along thrust surfaces (Figure 6.1). One thrust is located approximately 400m west of the Tasmania reef, trending in a NNW direction, dipping east. It is locally offset by NE faults, one of which controls the Tasmania Reed.

Other possible thrust sets are located 1.2Km west of the reef and 300m east of the (under Beaconsfield town). The relationship between these thrusts and the mineralisation is not known.

These thrust sets can be traced to the north (and south) and are locally off set and or crossed by NE structures.

The NE structures need to be prospected along, especially where they intersect brittle rocks such as the Transition beds (Figure 6.1).

527391


HELICOPTER MAGNETIC SURVEY
INTERPRETATION
ALLSTATE
EXPLORATIONS NL
(BEACONSFIELD MINE JV)
Date: 27/8/98
Office:
Author: RMS White
File:
Scale:
Drawing No.:
Figure No.: 6.2
0
0.5
1
Kilometers
5 cm
Qha
Ts
Wgr
Pbm
Pbl
Pb
Jd
Water
Ppma
Sd
Oct
Octc
SD
Wgra
Cpy
Qt
Ogg
Wto
Qqcp
Ps
Cdss
Tl
Wga

7. TARGETS

Targets 1-8 (Figure 7.1) are at the intersections of the easterly projections of NE faults with the brittle Transition beds.

Target 9 is the intersection of a major NE structure and the possible extension of the Transition beds.

Target 10 is the NW projection of the Transition beds and the intersection of a possible NE structure.

Target 11 is the projection of the transition beds and a NE structure. Just south of the area is a possible late? E-W structure with a major late? N-S feature just to the east.

Targets 12 & 13 are possible northern extensions of the same structures and geology but the positions are less well defined as the position of the thrust is not easily discernible.

Targets 1 - 13 lie on possible similar geological and structural positions to the Tasmania Reef. The NE structures, defined by the magnetic survey, need to be prospected along as they may provide similar structural settings if they intersect brittle rocks. The intersection of these structures with less brittle rocks may produce more diffuse mineralised system (larger tonnage-lower grade), possibly amenable to open cut mining if near the surface.

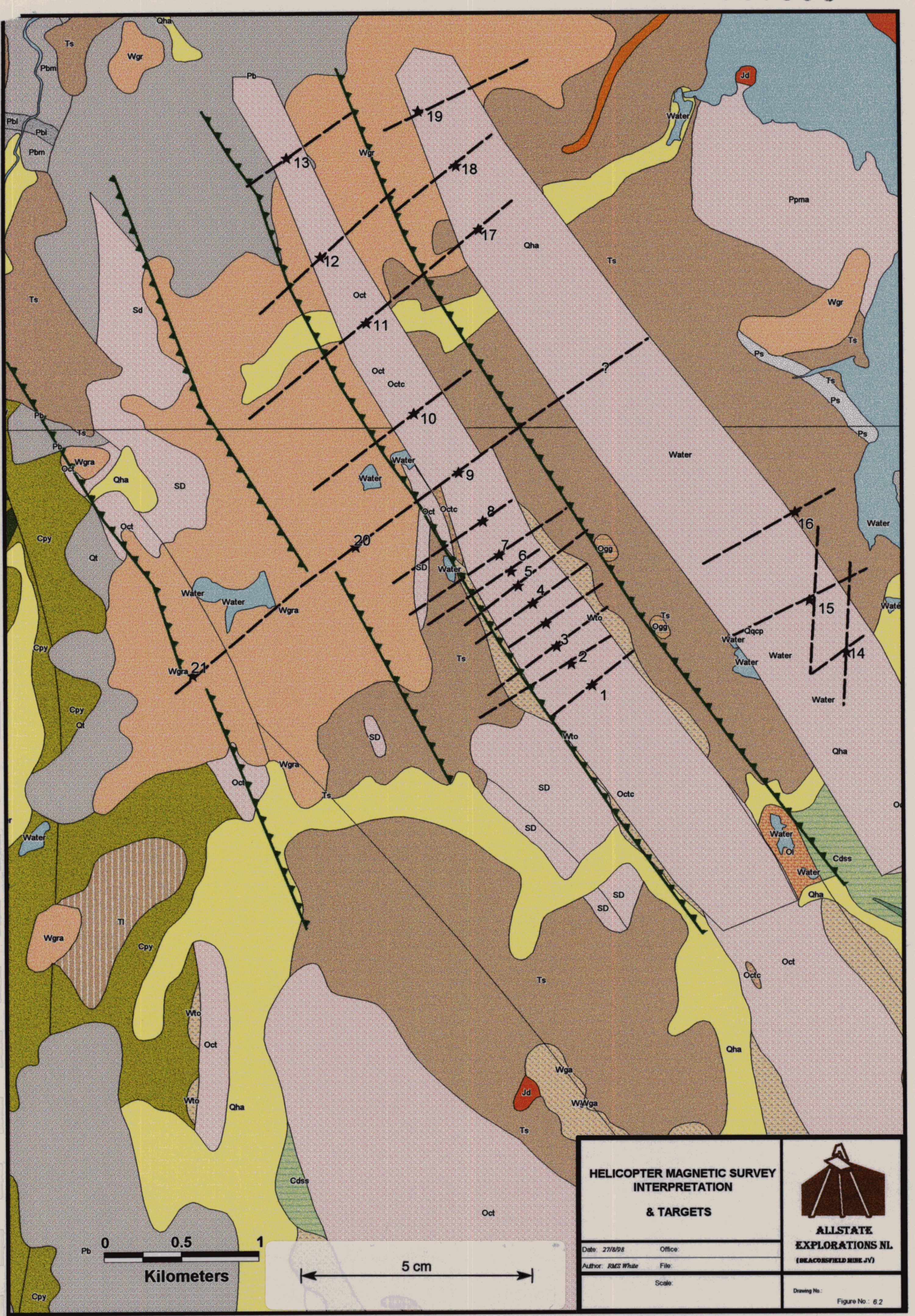
A parallel zone may exist to the east of the town in a repetition of the geology and structures, under the Permian and Tertiary cover. Three targets (14 ,15 & 16) have been proposed in this area for testing to ascertain if the appropriate geology and structures exist. The proposed prospective geology has been projected from outcrops of Ordovician 1 -2 Km to the south. The position of the targets along the probable NE structures is ill-defined and will need to be adjusted as testing progresses. The targets may need to be moved to the east.

There is a possible extension of this easterly zone under the cover to the north. Targets 17, 18 & 19 have been proposed to test this theory. The position of these targets is approximate and they should be refined by the study of any drilling that exists in the area.

Target 20 is located on a major NE structure. Its position could be refined by geochemical sampling along the structure.

Target 21 lies at the intersection of a NE structure and a discontinuity in what is probably ultramafic under recent cover.

527393



HELICOPTER MAGNETIC SURVEY
INTERPRETATION
& TARGETS
Date: 27/8/98
Office:
Author: RMS White
File:
Scale:
ALLSTATE
EXPLORATIONS NL
(BEACONSFIELD MINE JV)
Drawing No.:
Figure No.: 6.2
0
0.5
1
Kilometers
5 cm
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
?
Qha
Ts
Wgr
Pbm
Pbl
Pb
Ppma
Jd
Water
Sd
SD
Oct
Octc
Ps
Wgra
Cpy
Qt
Ogg
Wto
Qqcp
Cdss
Tl
Wga

8. RECOMMENDATIONS

That the defined NE structures be prospected along to locate mineralisation, especially where they intersect the Transition beds or brittle equivalents.

That the area south of the mine to south of Salisbury Hill be flown with a helicopter magnetic survey in order to define structures. This survey should be flown in an east west direction so as to cross both the stratigraphy and prospective structures at a more favourable angle than the current survey. Primary targets will occur where these structures intersect the favourable geology. Geochemical sampling along these structures may locate subtle indications of mineralisation at depth. Since the surface in this area has been prospected in some detail any holes drilled will have to be relatively deep.

The helicopter magnetic data interpretation needs to be merged into the previous fixed wing magnetic interpretation to produce a more regional picture. Also the ground magnetic data collected around the town needs to be processed and merged.

That a structural geologist review the interpretations and geology in order to develop a new? structural model.

If future magnetic surveys are planned, care should be taken selecting the flight direction in order to maximise the resolution of critical features.

527395

9. APPENDIX 1 Flying and Processing Specifications.

Company Flown by: UTS Geophysical Surveys
Company Processed: Baigent Geosciences Pty. Ltd.

AIRBORNE SURVEY EQUIPMENT:

Aircraft	Bell 206
Magnetometer	Scintrex CS-2 Caesium Vapour
Magnetometer Resolution	0.001 nT
Magnetometer Compensation	RMS AADC operating in real time
Magnetometer Sample Interval	0.1 seconds (approx 4.5 metres)
Data Acquisition	UTS
Data Recording	1 Gbyte Hard Disk
GPS Navigation System	Novatel with Racal real time differential correction

AIRBORNE SURVEY SPECIFICATIONS:

Flight Line Direction	060 degrees
Flight Line Separation	50 metres
Tie Line Direction	150 degrees
Tie Line Separation	500 metres
Terrain Clearance	40 metres (MTC)
Survey flown	June 1998
UTS Geophysics Survey job number	A268
Data are in UTM Grid Zone	55

MAGNETIC DATA CORRECTIONS:

Diurnal variations removed
IGRF(1995) updated to 1998.5 removed.

527396

MAGNETIC DATA FORMAT:

Flight Number	i7	
space	x	
line number	a8	
date	a8	
fiducial	f10.0	-9999999.
zone number	f4.0	-99.
easting	f11.2	-9999999.00
northing	f11.2	-9999999.00
raw magnetics	f10.3	-9999.000
diurnal variation	f10.3	-9999.000
IGRF value	f10.3	-9999.000
levelled magnetics	f10.3	-9999.000
radar altimeter	f6.1	-999.0
gps height	f6.1	-999.0
dtm	f6.1	-99.0
local time	f9.5	-99.00
linefeed character		

logical record length of 128 bytes

527397

10. APPENDIX 2 IMAGES.

Various Images and files created from the Heli Mag Survey Flown in June 1998

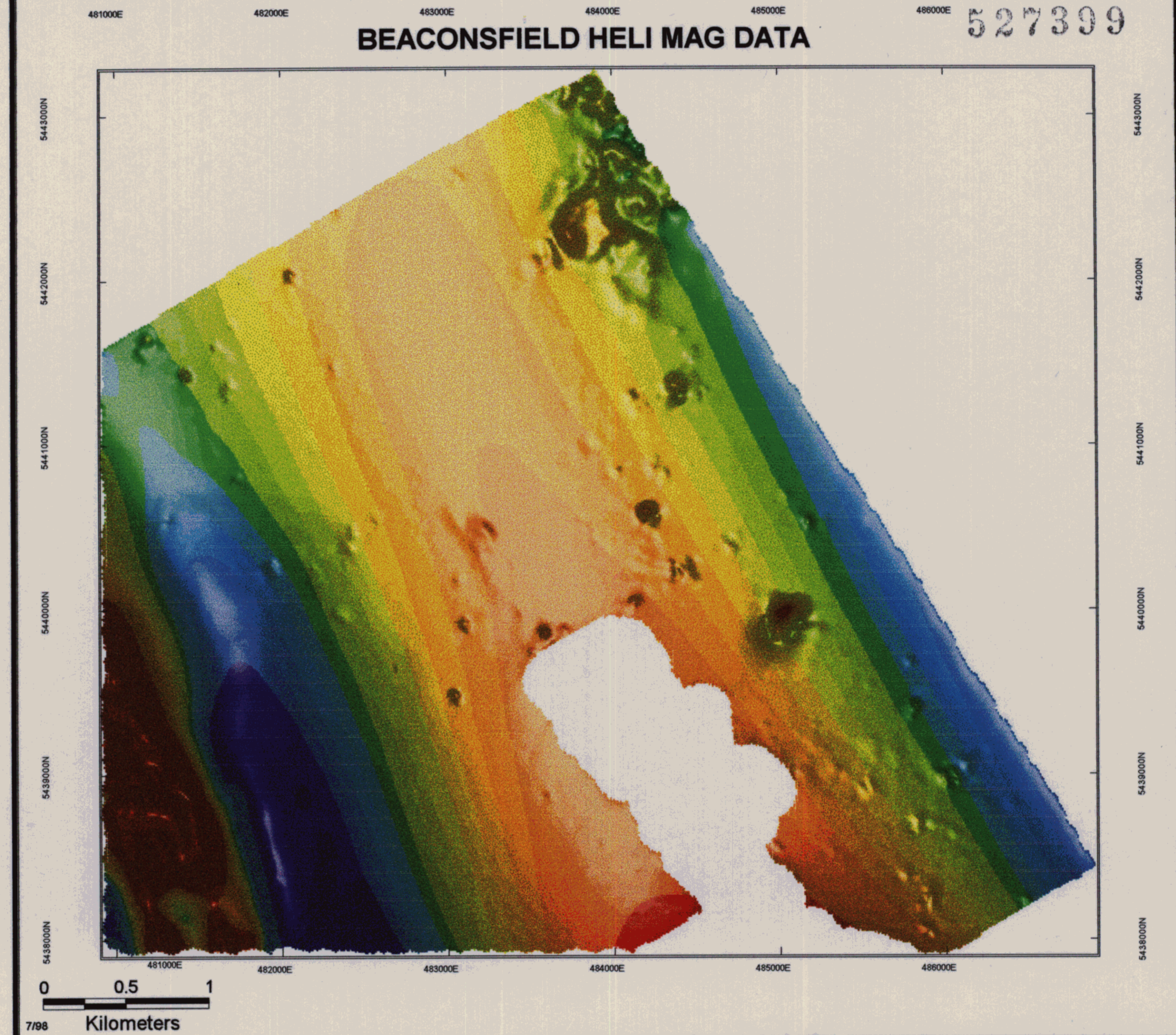
1VDCOL.TAB	1vd of RTP Colour.
1VDSUN.TAB	1vd of RTP SUN.
50RCOL.TAB	50r of RTP Colour.
AGC1.TAB	100m AGC of 50r of RTP Sun.
AGC10.TAB	50m AGC of 50R of regridded masked RTP Colour.
AGC11.TAB	50m AGC of 50R of (100R - 25r) of RTP Colour.
AGC12.TAB	100m AGC of 100r of RTP Colour clipped -10 to 10.
AGC2.TAB	100m AGC of 75r of RTP Sun.
AGC3.TAB	50m AGC of 75r of RTP Sun.
AGC4.TAB	50m AGC of 50r of RTP Sun.
AGC5.TAB	75m AGC of 75r of RTP Sun.
AGC50R.TAB	50m AGC of 50r of RTP Colour.
AGC6.TAB	75m AGC of 75r of RTP Colour.
AGC7.TAB	100m AGC of 1vd of RTP Sun.
AGC8.TAB	50m AGC of 50r with sun Dec 330 inc 30.
AGC9COL.TAB	50 AGC of 50r masked RTP Colour.
AGG07174.TAB	50m AGC of 50r of RTP with sun Dec 071, inc 74.
AGG26261.TAB	50m AGC of 50r of RTP with sun Dec 262, inc 61.
AGG28658.TAB	50m AGC of 50r of RTP with sun Dec 286, inc 58.
AGG34684.TAB	50m AGC of 50r of RTP with sun Dec 346, inc 84.
AXIS.TAB	Grid to go around plots.
CLP1COL.TAB	50m AGC of 50r of RTP colours cliped -10 to 10.
DTM25F.TAB	25m filtered DTM Colour.
DTMBAR.TAB	Bar Scale for Contour DTM.
DTMCOL.TAB	Colour DTM.
DTMCONT.TAB	Colour Contours of DTM.
DTMSUN.TAB	DTM Sun.
INIERP1.TAB	Magnetic Faults.
MASK.TAB	Mask used to remove magnetic spikes (houses etc.)
MINES.TAB	Location of Mines.
RTP1VD.TAB	RTP colour with 1vd intensity.
RTPAGC50.TAB	RTP Colour with 50m AGC of 50r of RTP intensity.
RTPCOL.TAB	RTP Colour Image.
RTPSUN.TAB	RTP Sun.
TEMPORA.TAB	50m AGC of 50r of masked RTP Colour cliped -10 to 10.
TRENDS.TAB	Magnetic Trends.

Terms used.
RTP = Reduced To the Pole magnetic image.
1vd = fiest vertical derivative.
50r = 50m residual of a Gaussian filter of the RTP data.
AGC = Automatic Gain Control.

DTM = Digital Terrain Model.
COL = Colour Image.
SUN = Composite Sun Angle Images made up of 3 sun angles 0,45 and 90 degrees. The Inclination is 30 degres.

527399

BEACONSFIELD HELI MAG DATA



5 cm

HELICOPTER MAGNETIC SURVEY

RTP Colour

Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

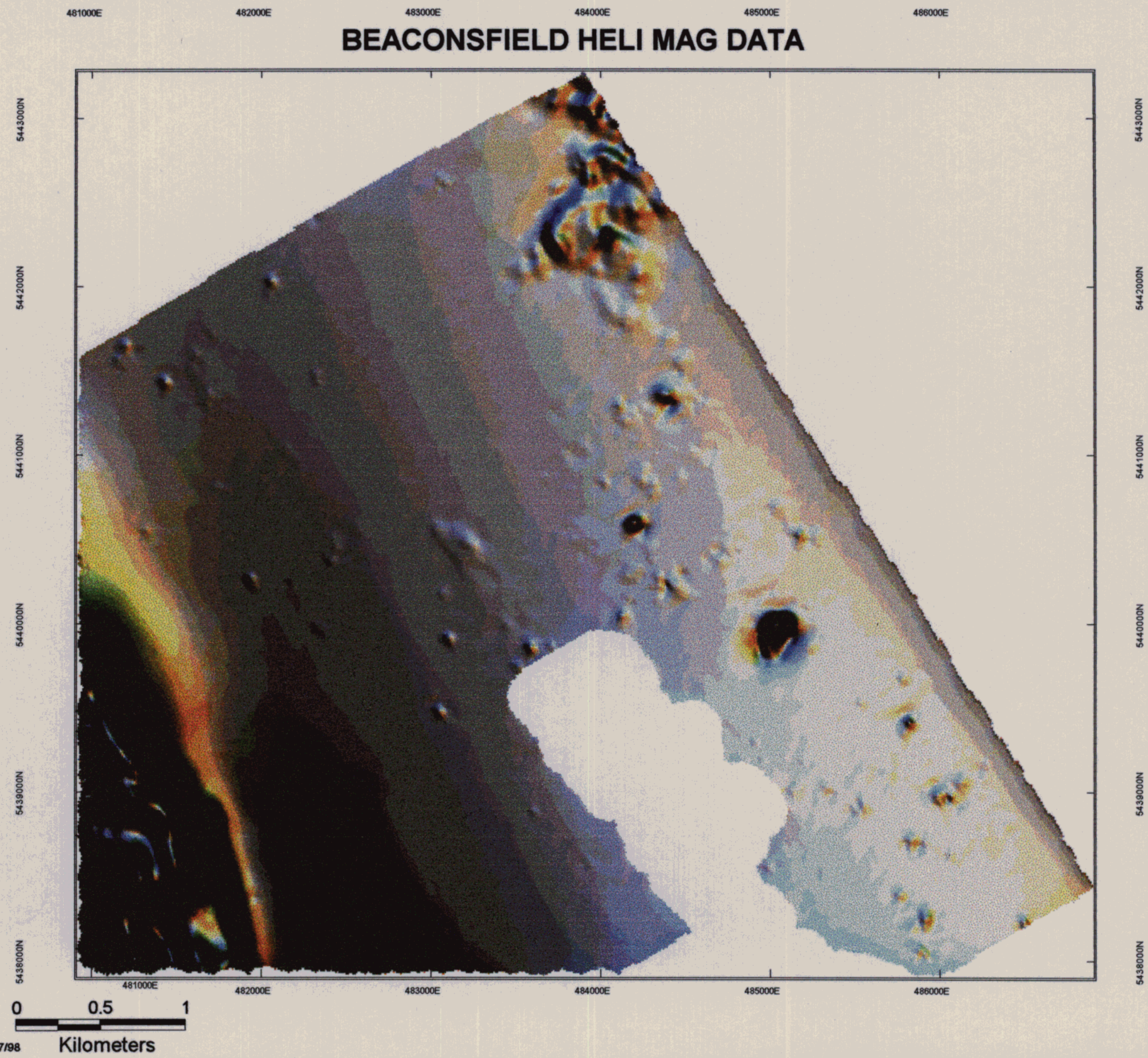
ALLSTATE EXPLORATIONS NL

(BEACONSFIELD MINE JV)

Drawing No.:

Figure No.:

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

RTP
Composite Sun Angle

Date: 27/8/98 Office:

Author: RMS White File:

Scale:

ALLSTATE EXPLORATIONS NL (BEACONSFIELD MINE JV)

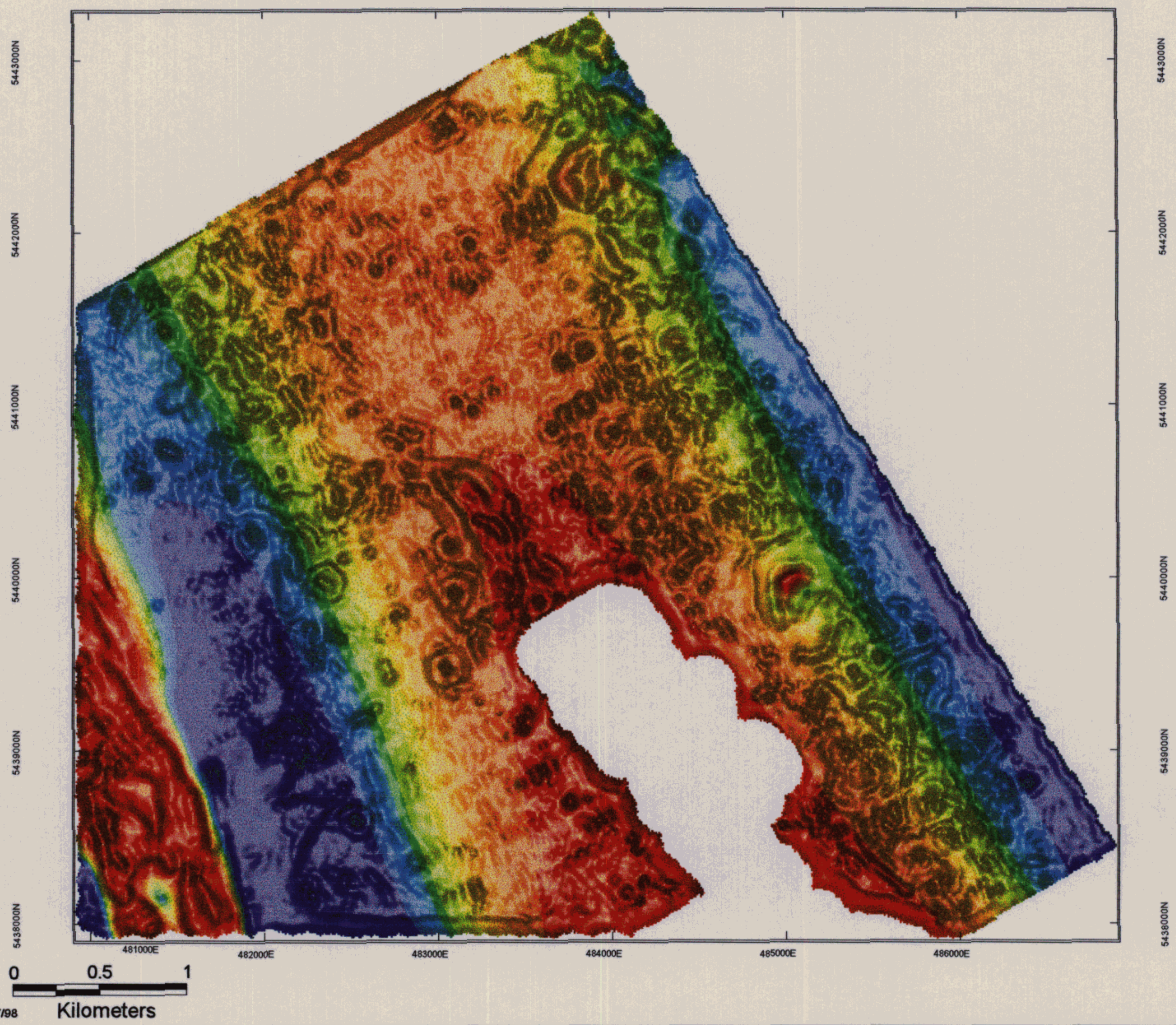
Drawing No.:

Figure No.:

5 cm

527401

BEACONSFIELD HELI MAG DATA



5 cm

HELICOPTER MAGNETIC SURVEY

RTP Colour
50m AGC, 50r Intensity

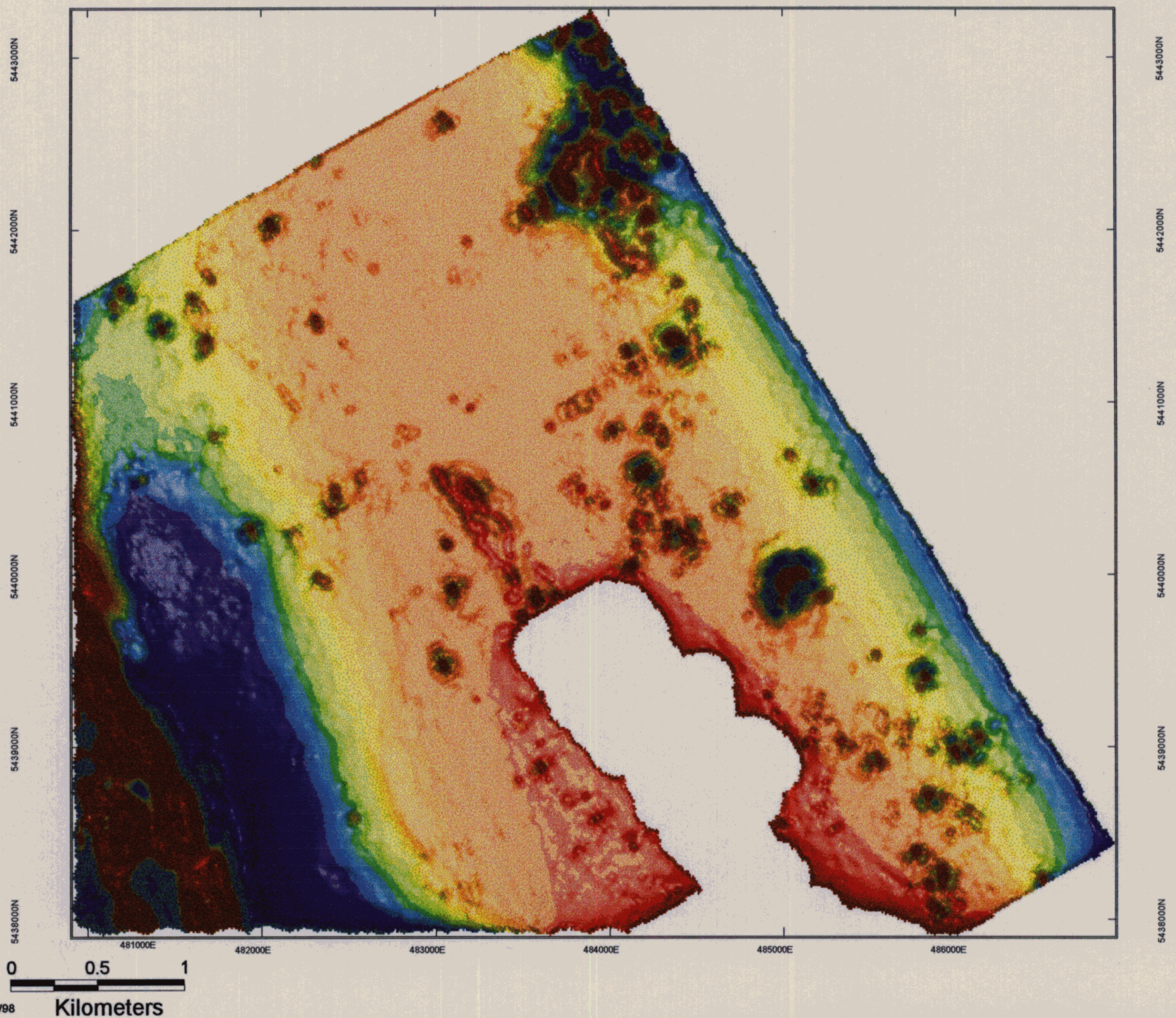
Date: 27/8/98 Office:
Author: RMS White File:
Scale:

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

527402

BEACONSFIELD HELI MAG DATA

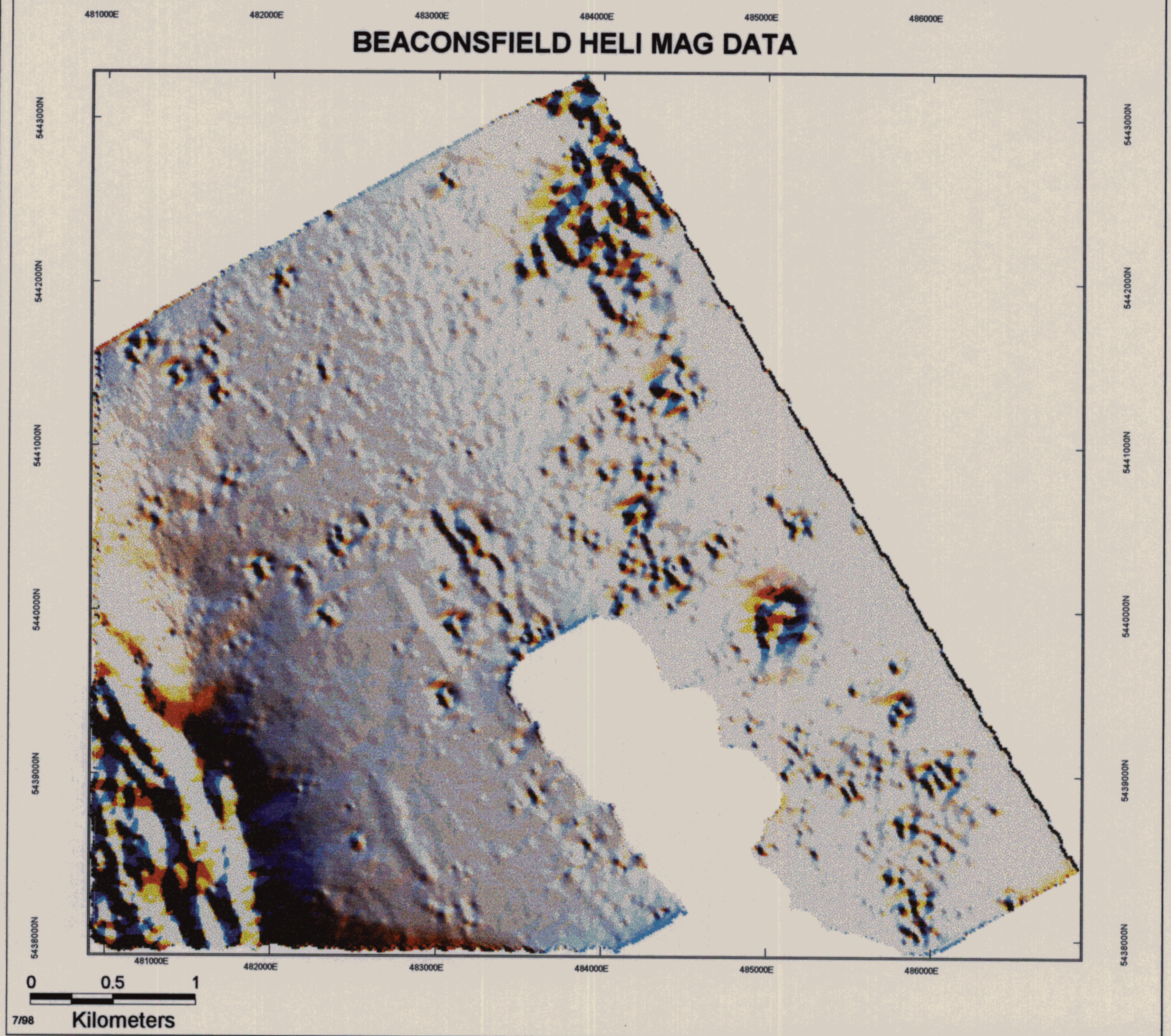


HELICOPTER MAGNETIC SURVEY 1vd of RTP	ALLSTATE EXPLORATIONS NL (BEACONSFIELD MINE JV)
Date: 27/8/98 Office:	
Author: RMS White File:	
Scale:	Drawing No.: Figure No.:

5 cm

527403

BEACONSFIELD HELI MAG DATA

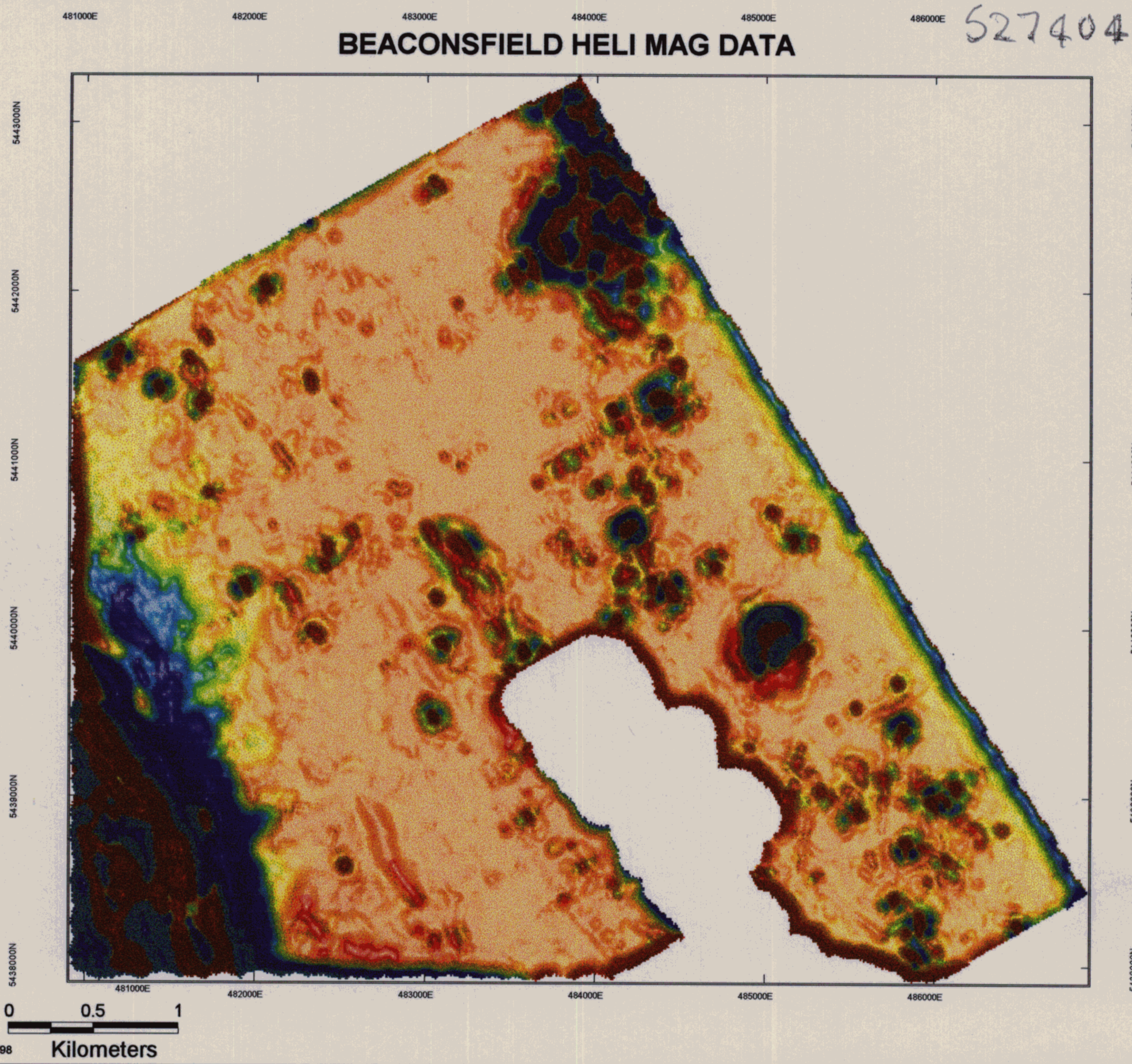


HELICOPTER MAGNETIC SURVEY 1vd of RTP Composite Sun	ALLSTATE EXPLORATIONS NL (BEACONSFIELD MINE JV)
Date: 27/8/98 Office: Author: RMS White File:	
Scale:	Drawing No.: Figure No.:

5 cm

527404

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

50m Residual of RTP

Date: *27/8/98* Office:

Author: *RMS White* File:

Scale:

ALLSTATE EXPLORATIONS NL

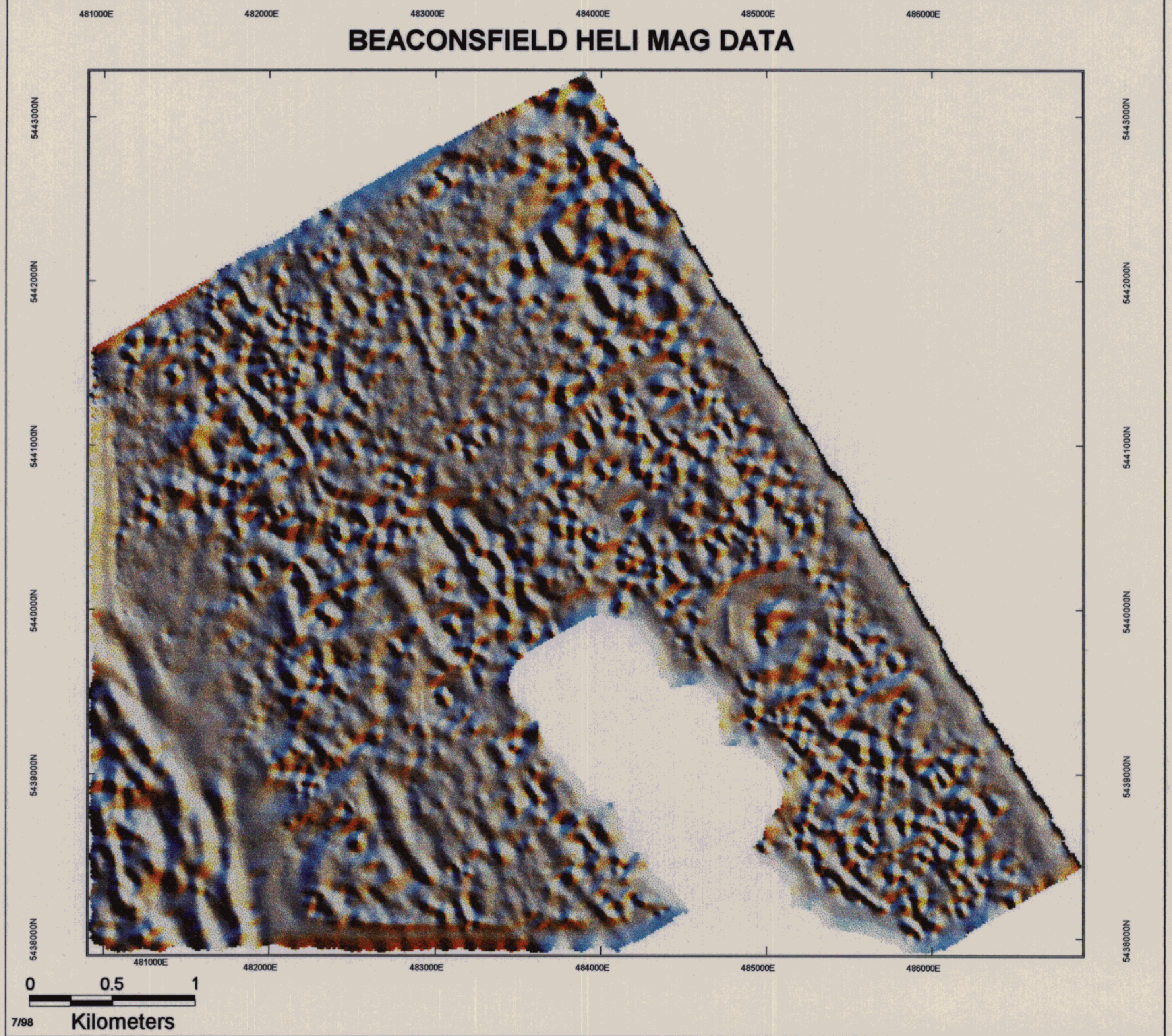
(BEACONSFIELD MINE JV)

Drawing No.:

Figure No.:

5 cm

527405



HELICOPTER MAGNETIC SURVEY

100m AGC of 50m Residual
of RTP Magnetics

Date: 27/8/98 Office:

Author: RMS White File:

Scale:

ALLSTATE EXPLORATIONS NL

(BEACONSFIELD MINE JV)

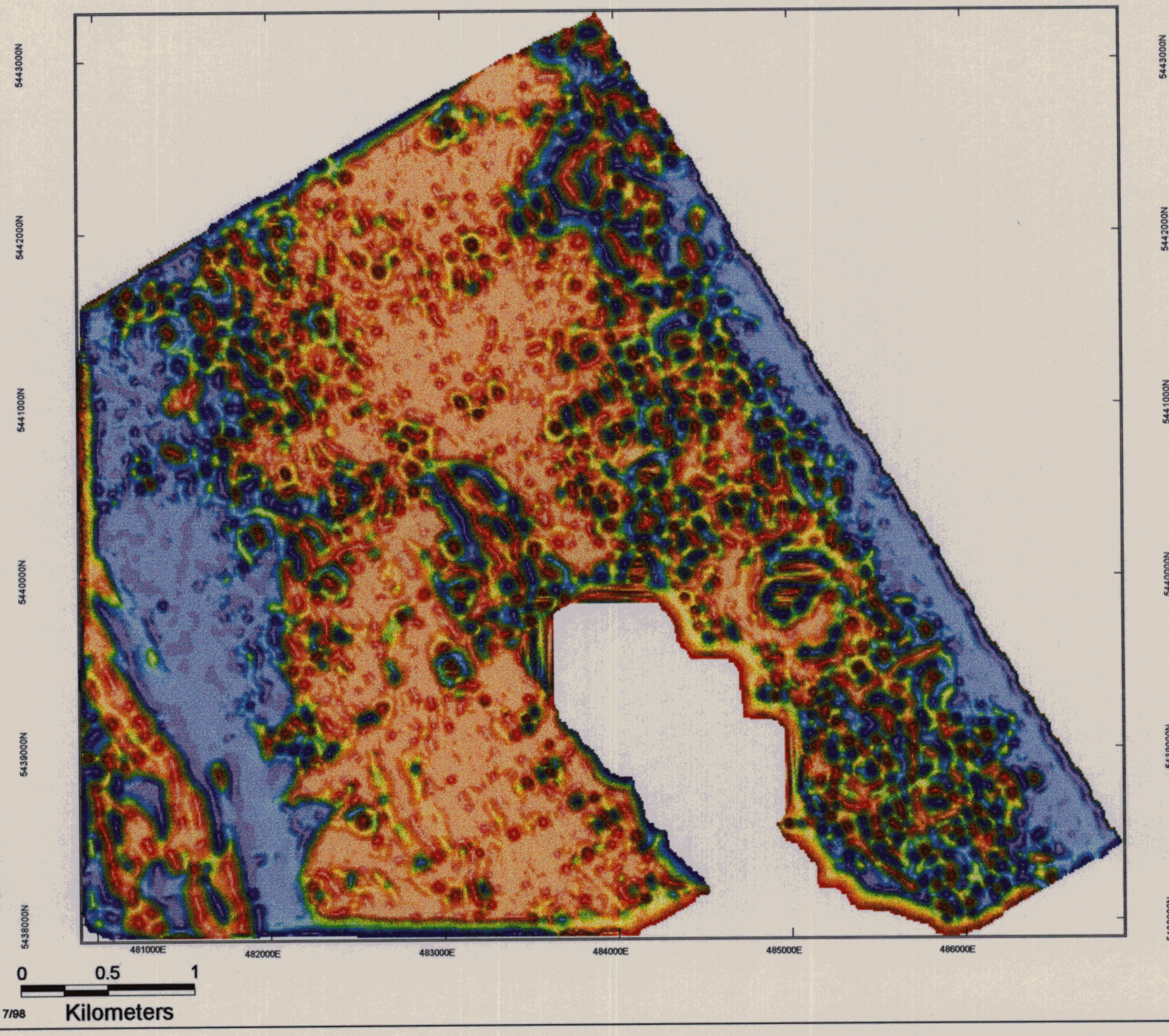
Drawing No.:

Figure No.:

5 cm

527406

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY
50m AGC of 50m Residual
of masked RTP Magnetics

Date: 27/8/98	Office:	
Author: RMS White	File:	
	Scale:	

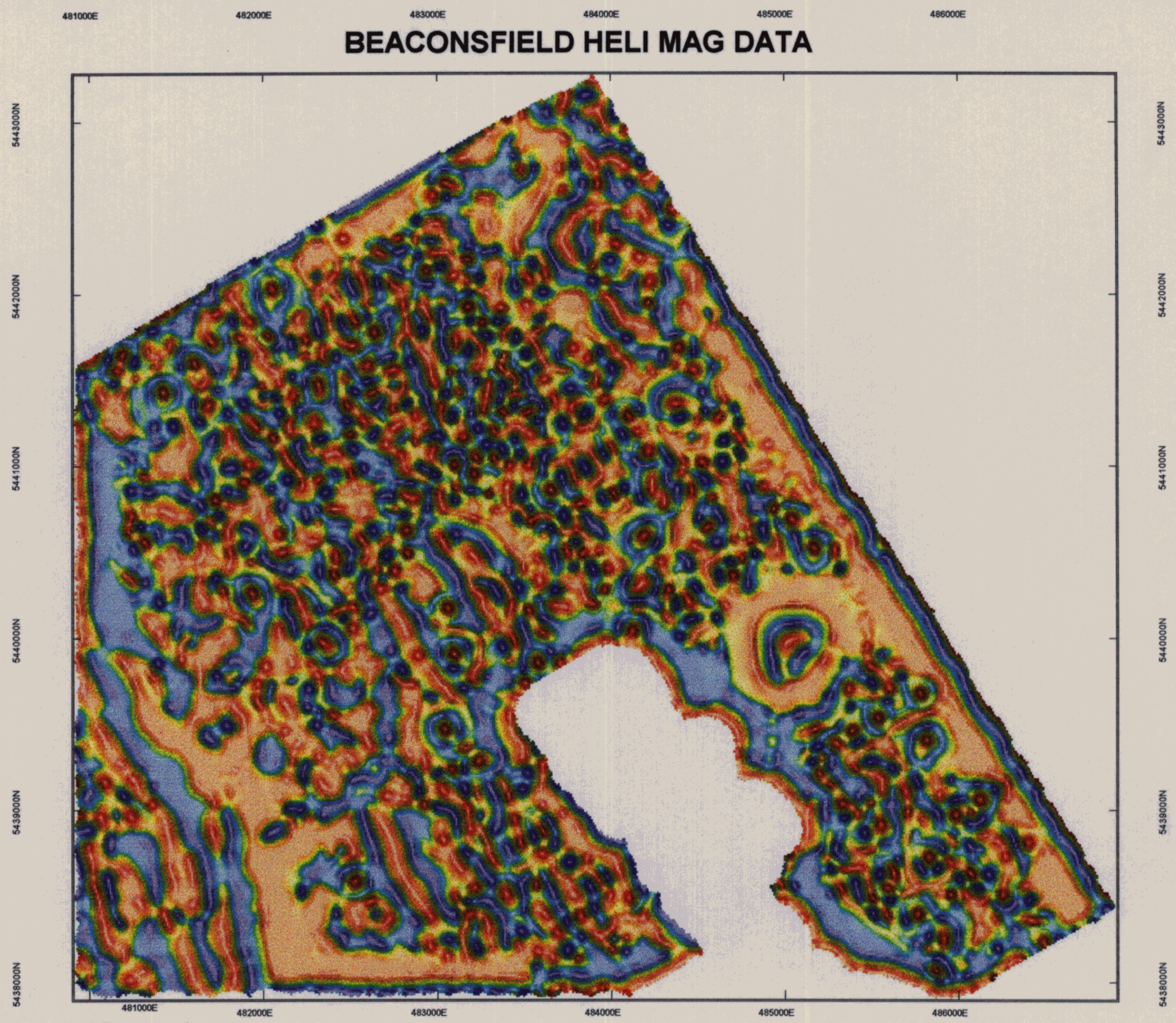
ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

527407

BEACONSFIELD HELI MAG DATA



0 0.5 1
Kilometers

7/98

HELICOPTER MAGNETIC SURVEY
50m AGC of 50m Residual
of (100mR-25mR) RTP Magnetics

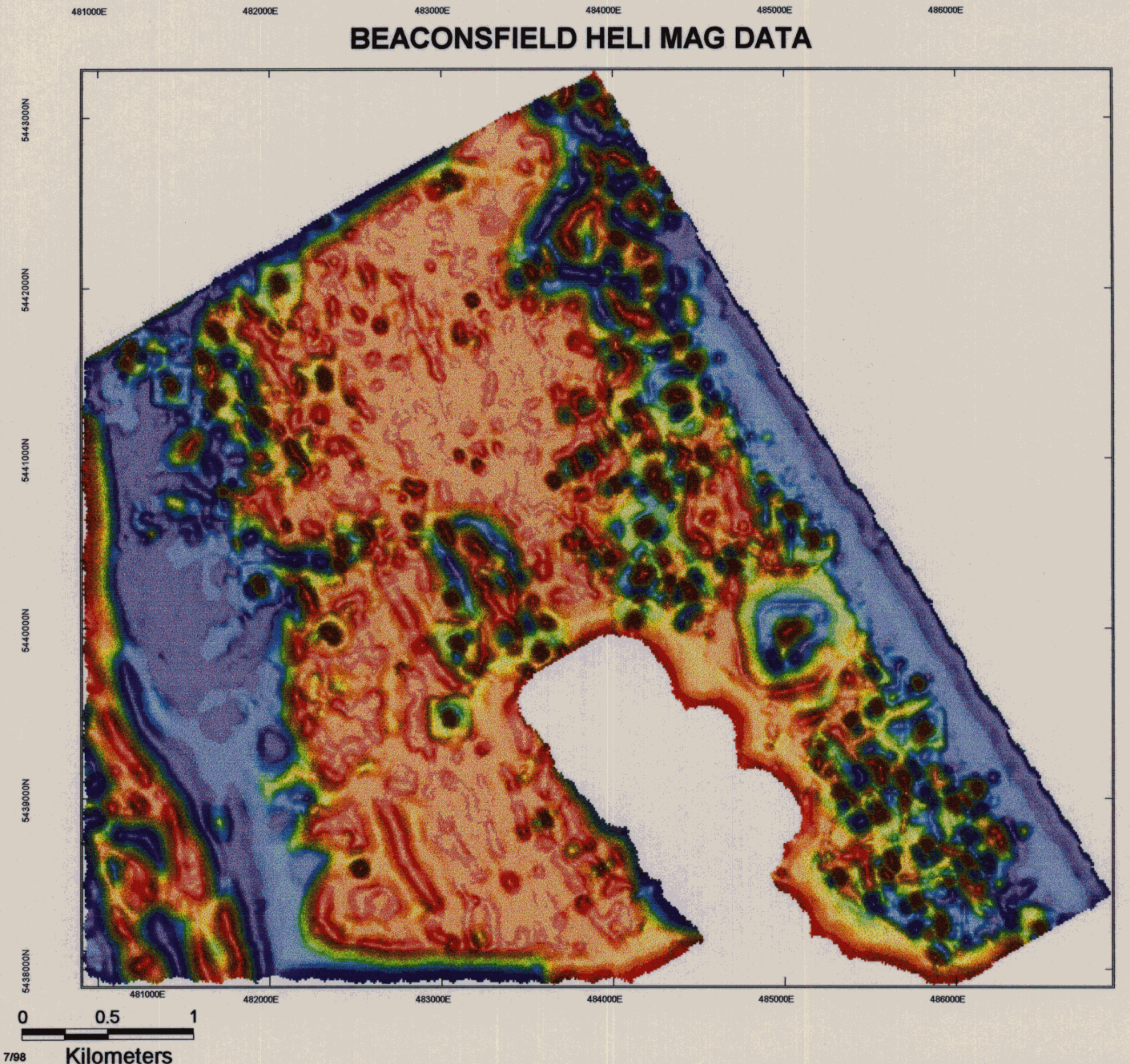
Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

100m AGC of100m Residual of RTP Magnetics

Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

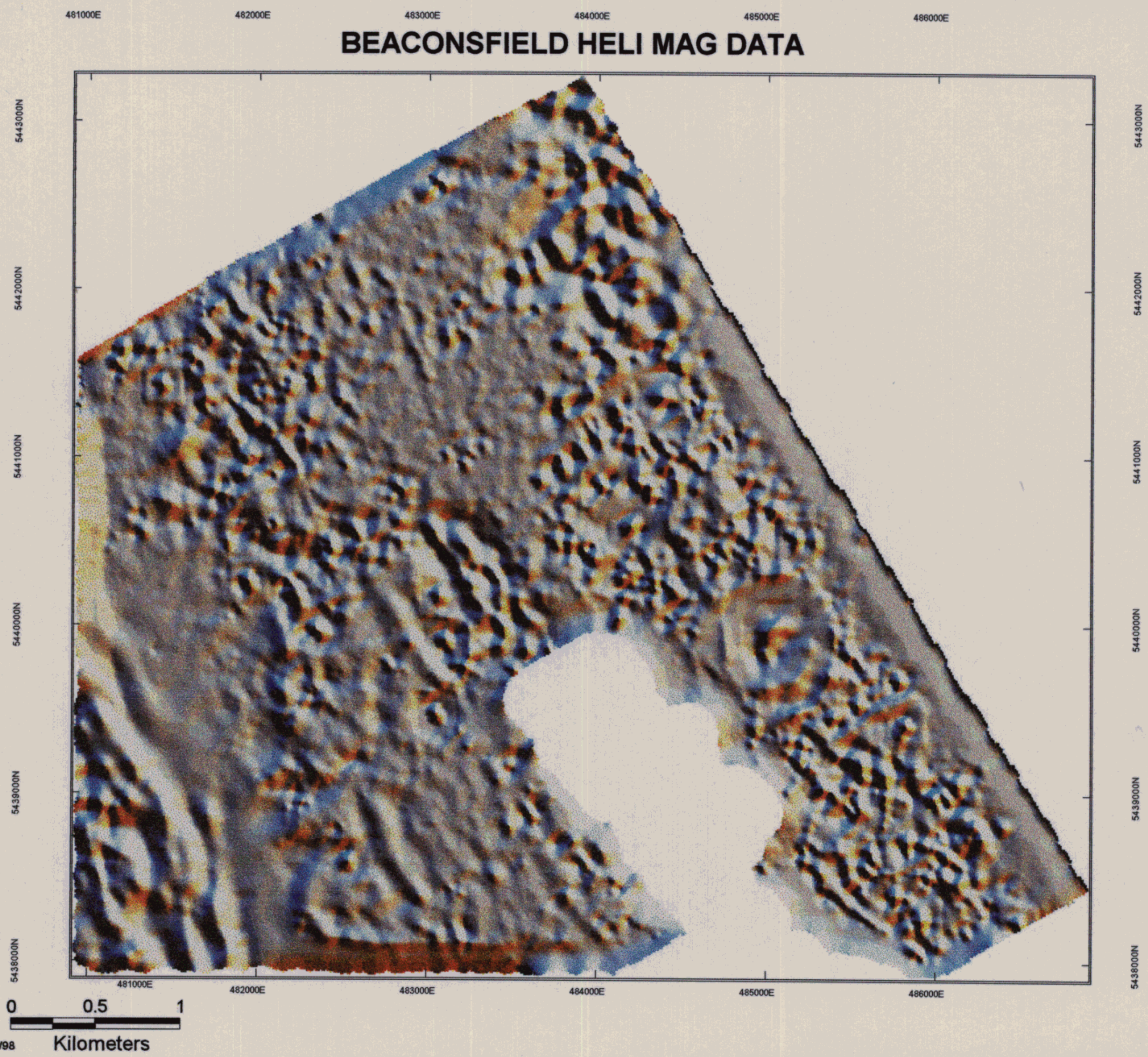
Drawing No.:

Figure No.:

5 cm

527409

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

100m AGC of 75m Residual of RTP Magnetics

Date: 27/8/98 | Office:
Author: RMS White | File:
Scale:

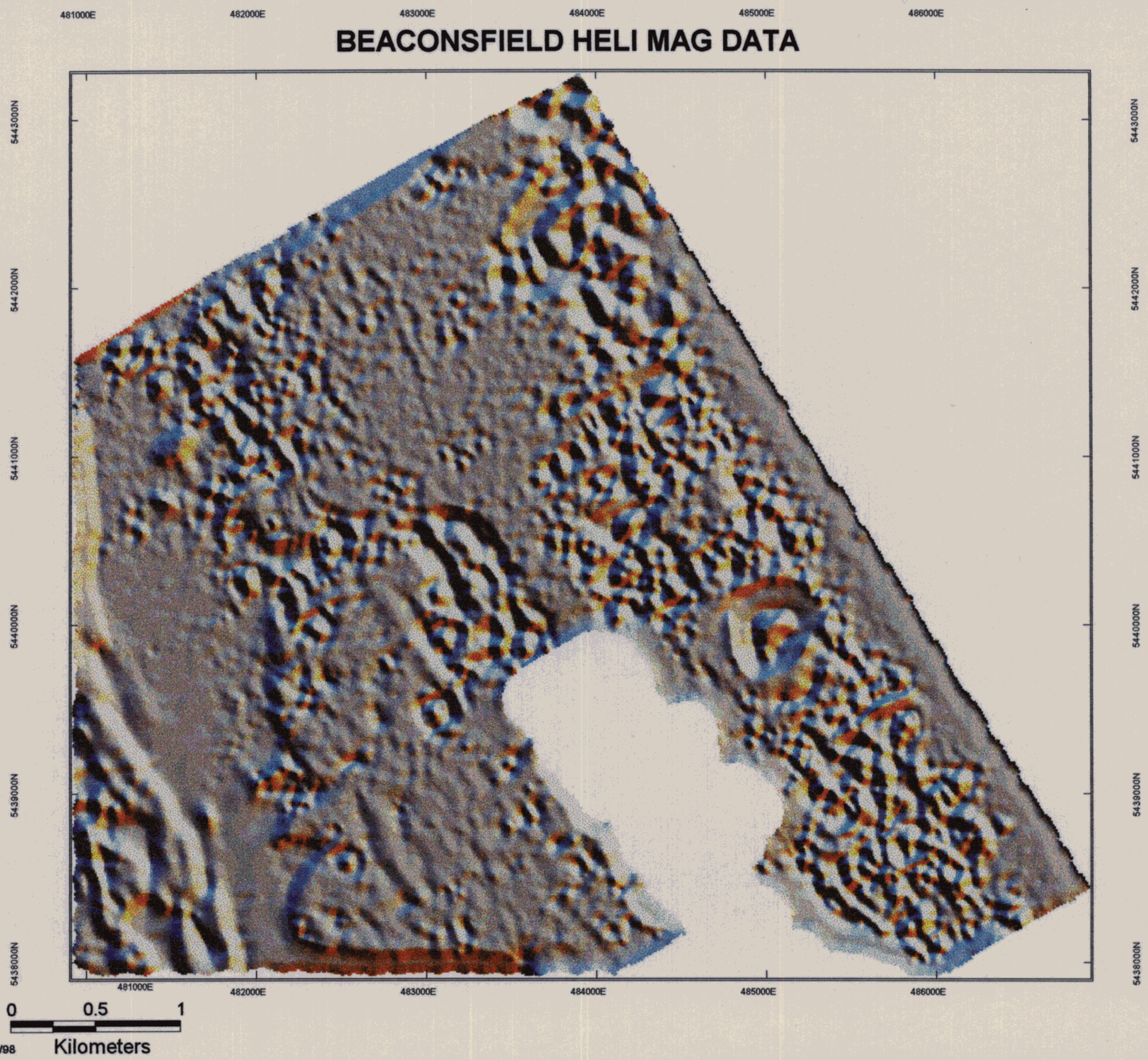
ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

527410

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

50m AGC of 75r of RTP
Composite Sun Angle

Date: 27/8/98 Office:

Author: RMS White File:

Scale:

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

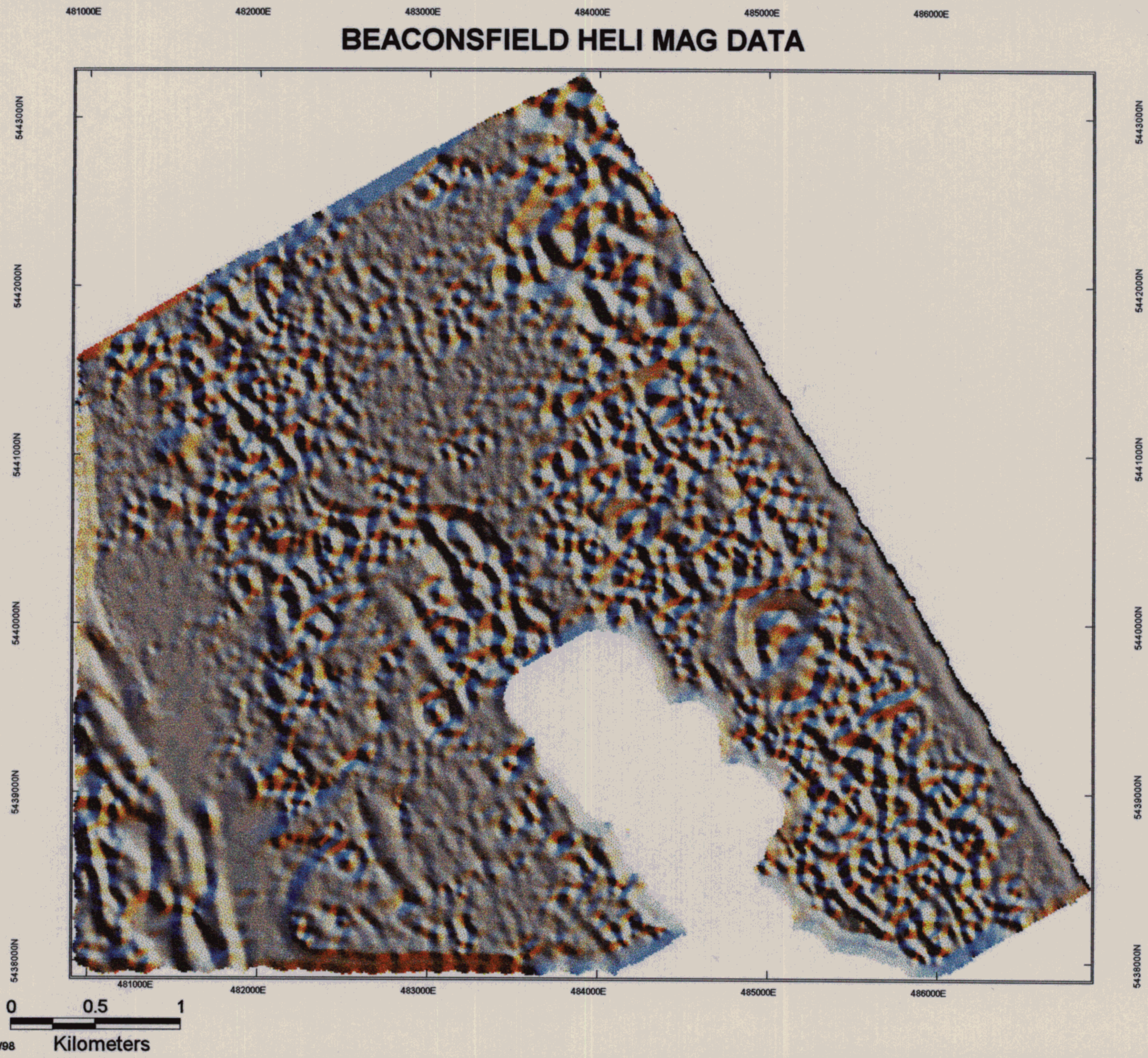
Drawing No.:

Figure No.:

5 cm

527411

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

50m AGC of 50r of RTP
Composite Sun Angle

Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

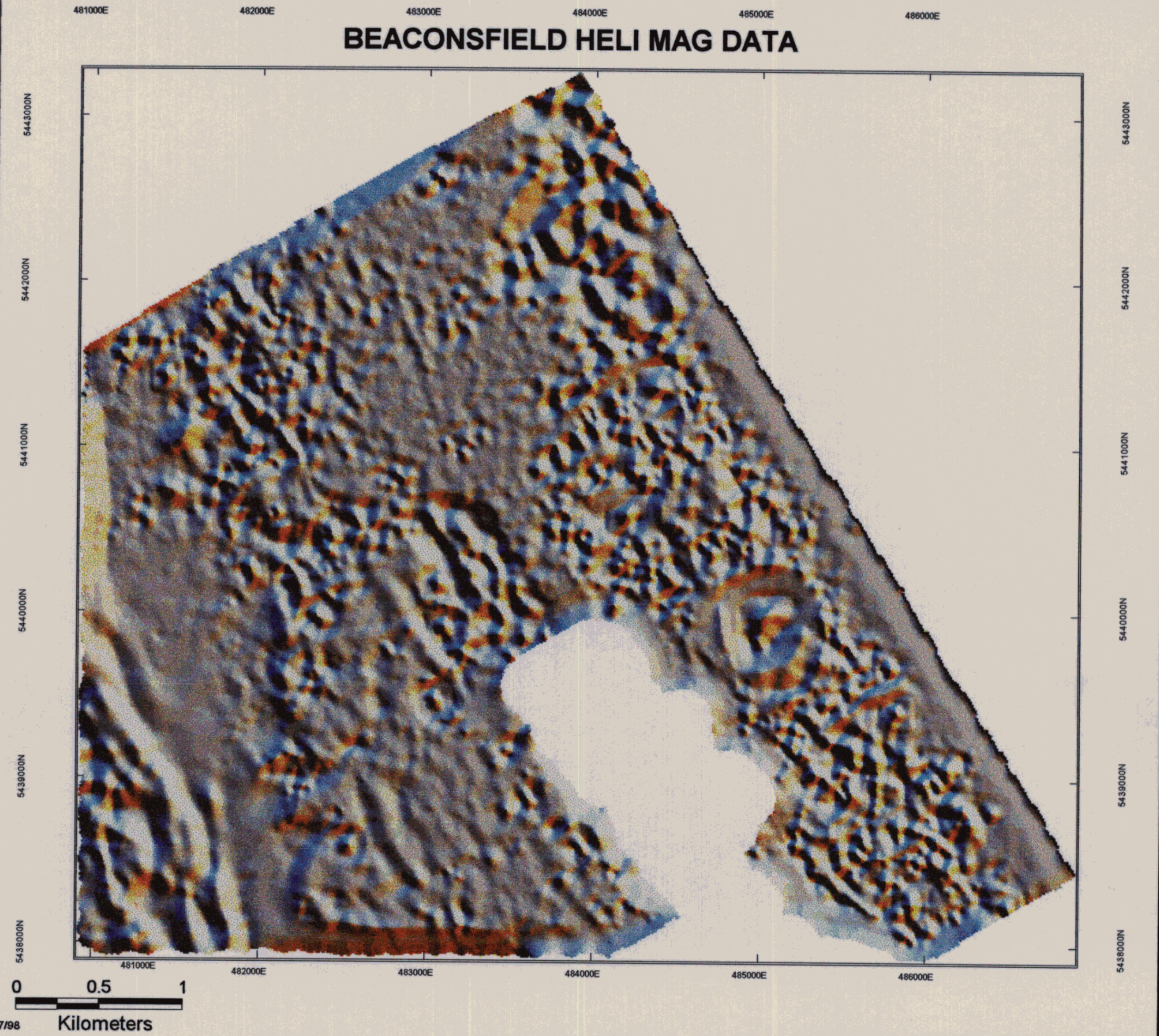
ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

527412

BEACONSFIELD HELI MAG DATA

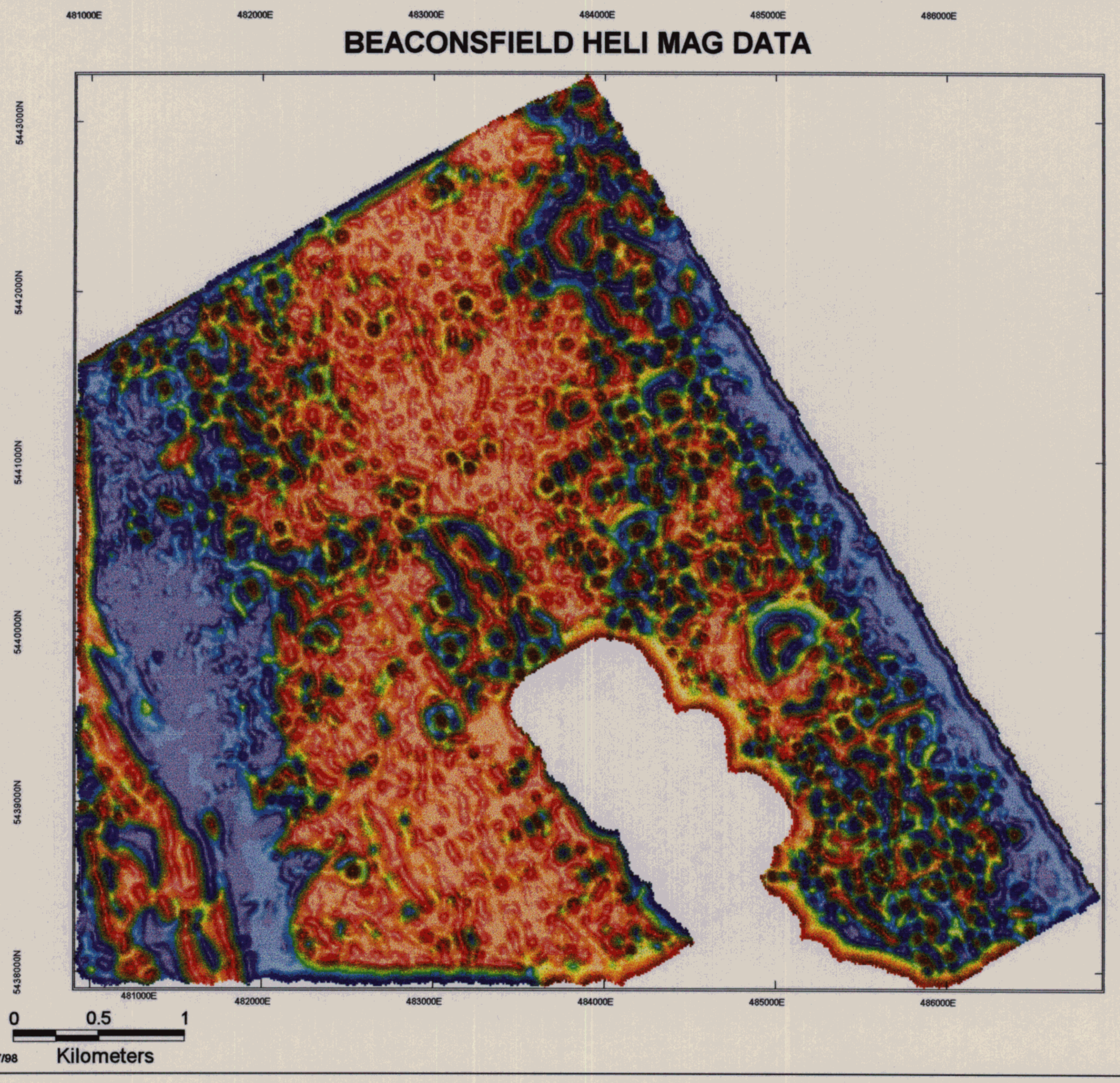


HELICOPTER MAGNETIC SURVEY **75m AGC of 75r of RTP** **Composite Sun Angle**	**ALLSTATE EXPLORATIONS NL** (BEACONSFIELD MINE JV)
Date: 27/8/98 Office: Author: RMS White File:	
Scale:	Drawing No.: Figure No.:

5 cm

527413

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

50m AGC of 50r of RTP

Date: 27/8/98 Office:

Author: RMS White File:

Scale:

ALLSTATE EXPLORATIONS NL

(BEACONSFIELD MINE JV)

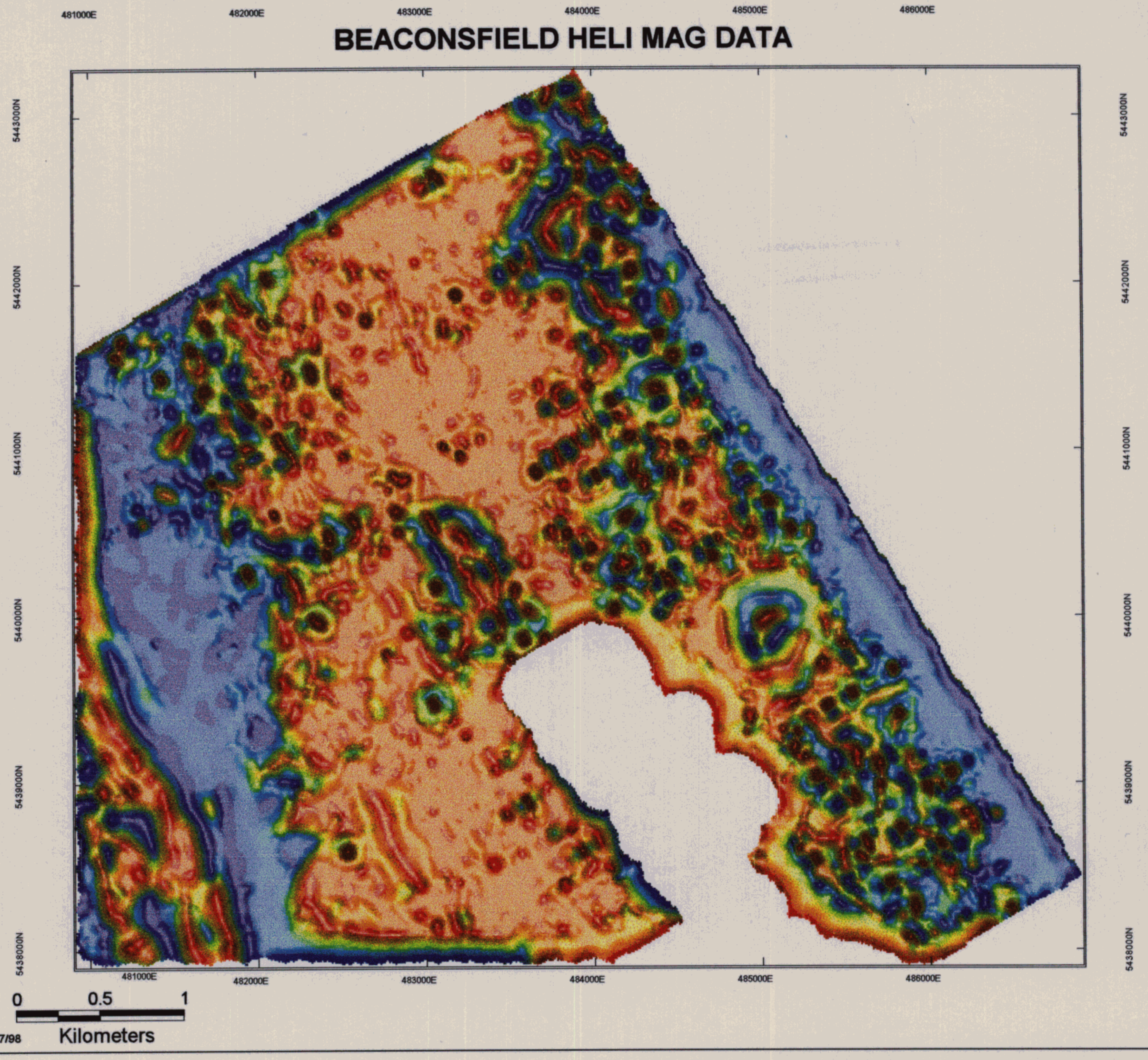
Drawing No.:

Figure No.:

5 cm

527414

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

75m AGC of 75r of RTP

Date: 27/8/98	Office:
Author: RMS White	File:
	Scale:

ALLSTATE EXPLORATIONS NL

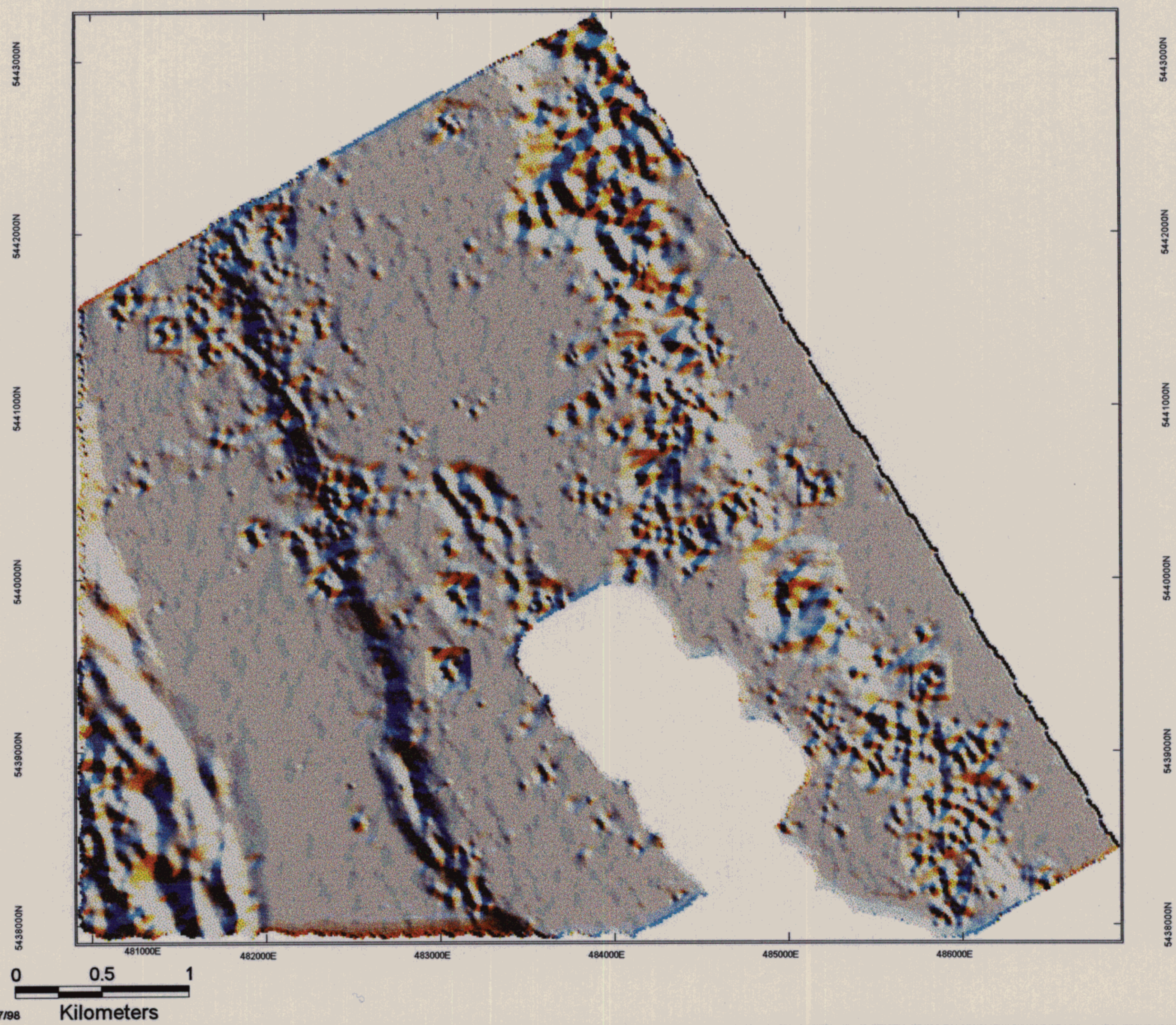
(BEACONSFIELD MINE JV)

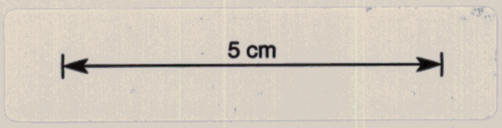
Drawing No.:

Figure No.:

5 cm

BEACONSFIELD HELI MAG DATA





HELICOPTER MAGNETIC SURVEY

100m AGC of 1vd
Composite Sun Angle

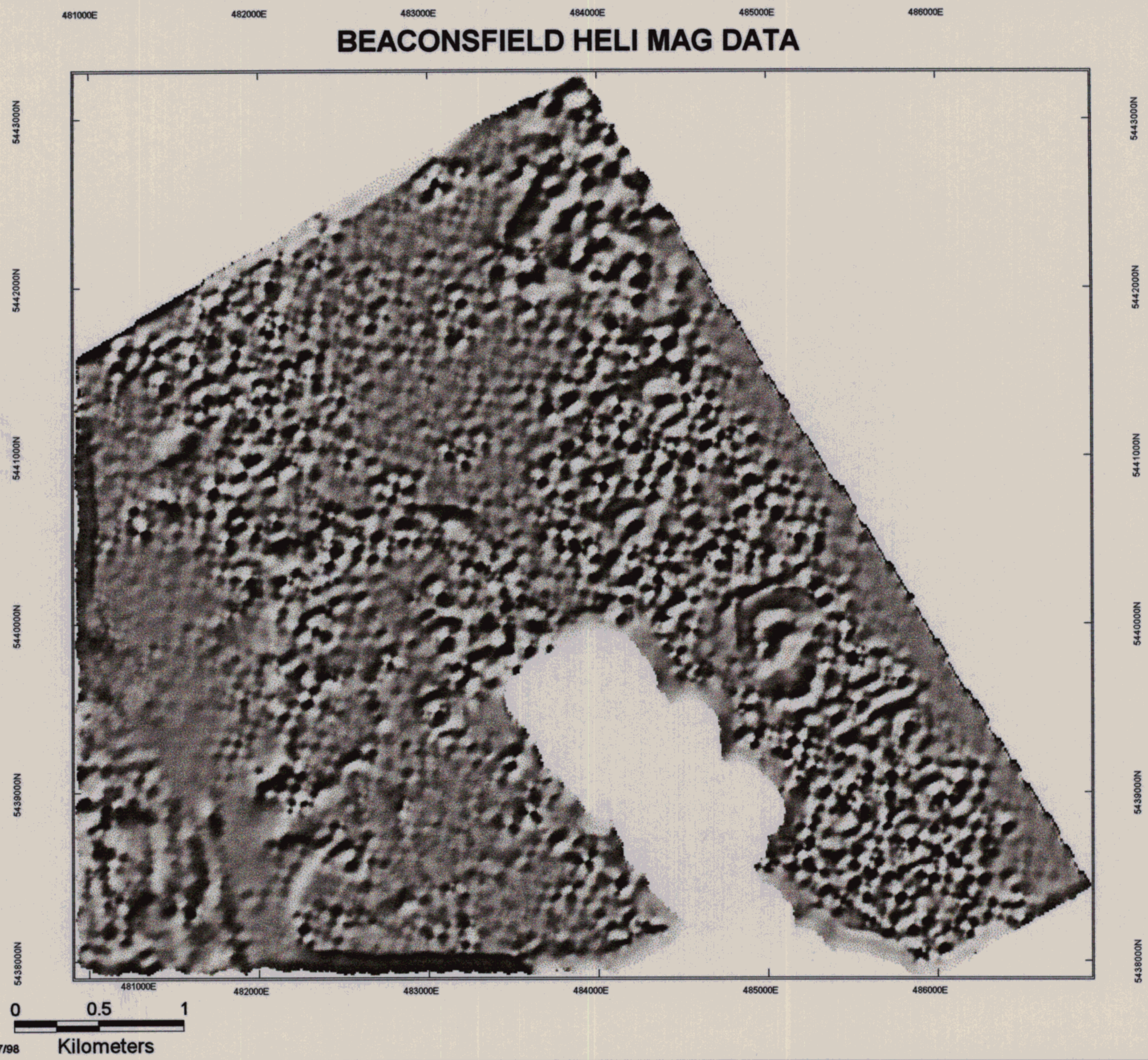
Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

527416

BEACONSFIELD HELI MAG DATA



7/98

HELICOPTER MAGNETIC SURVEY

50m AGC of 50r
with Sun Dec 330 inc. 30 degrees

Date: 27/8/98 Office:
Author: RMS White File:
Scale:

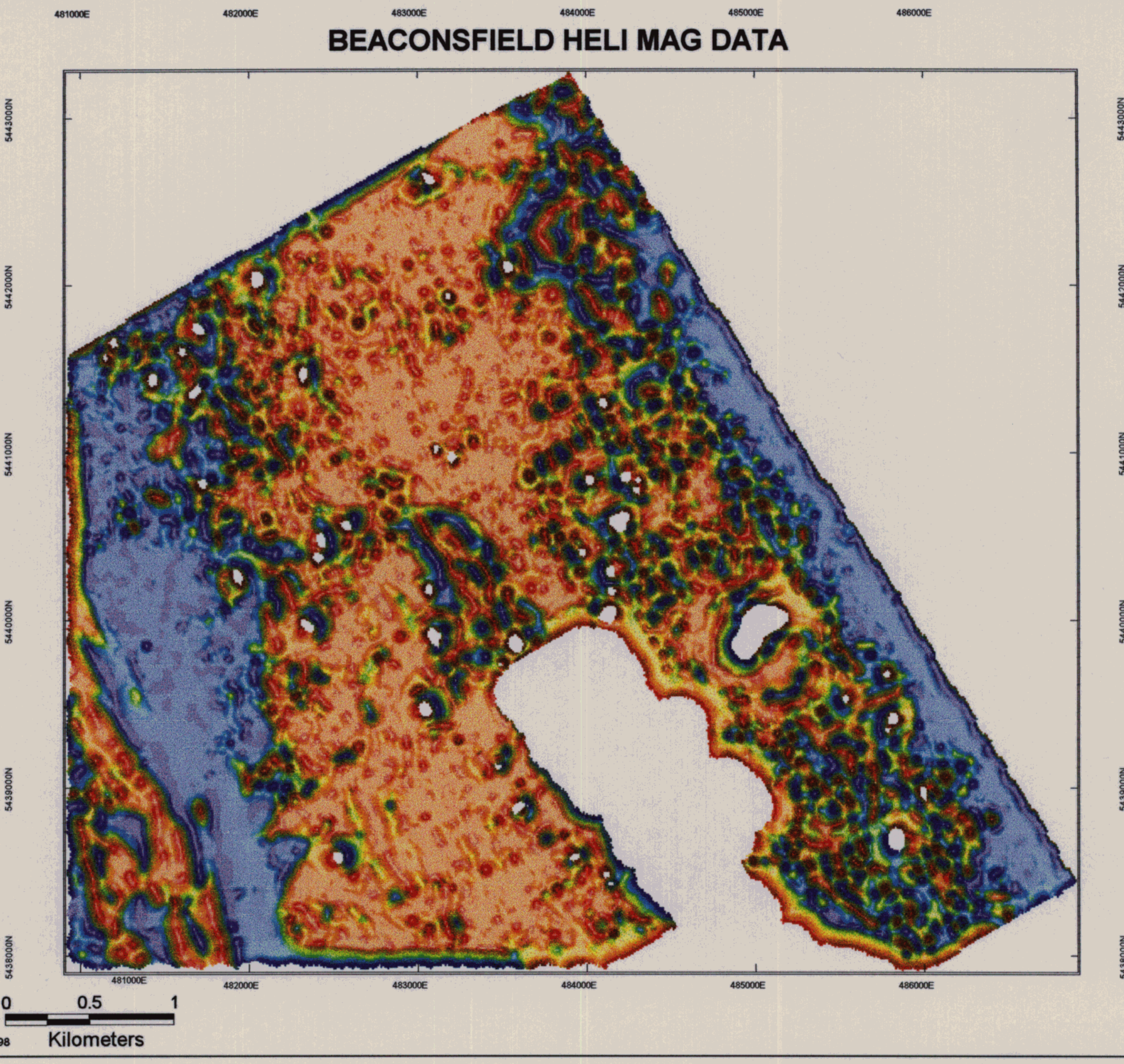
ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

527417

BEACONSFIELD HELI MAG DATA



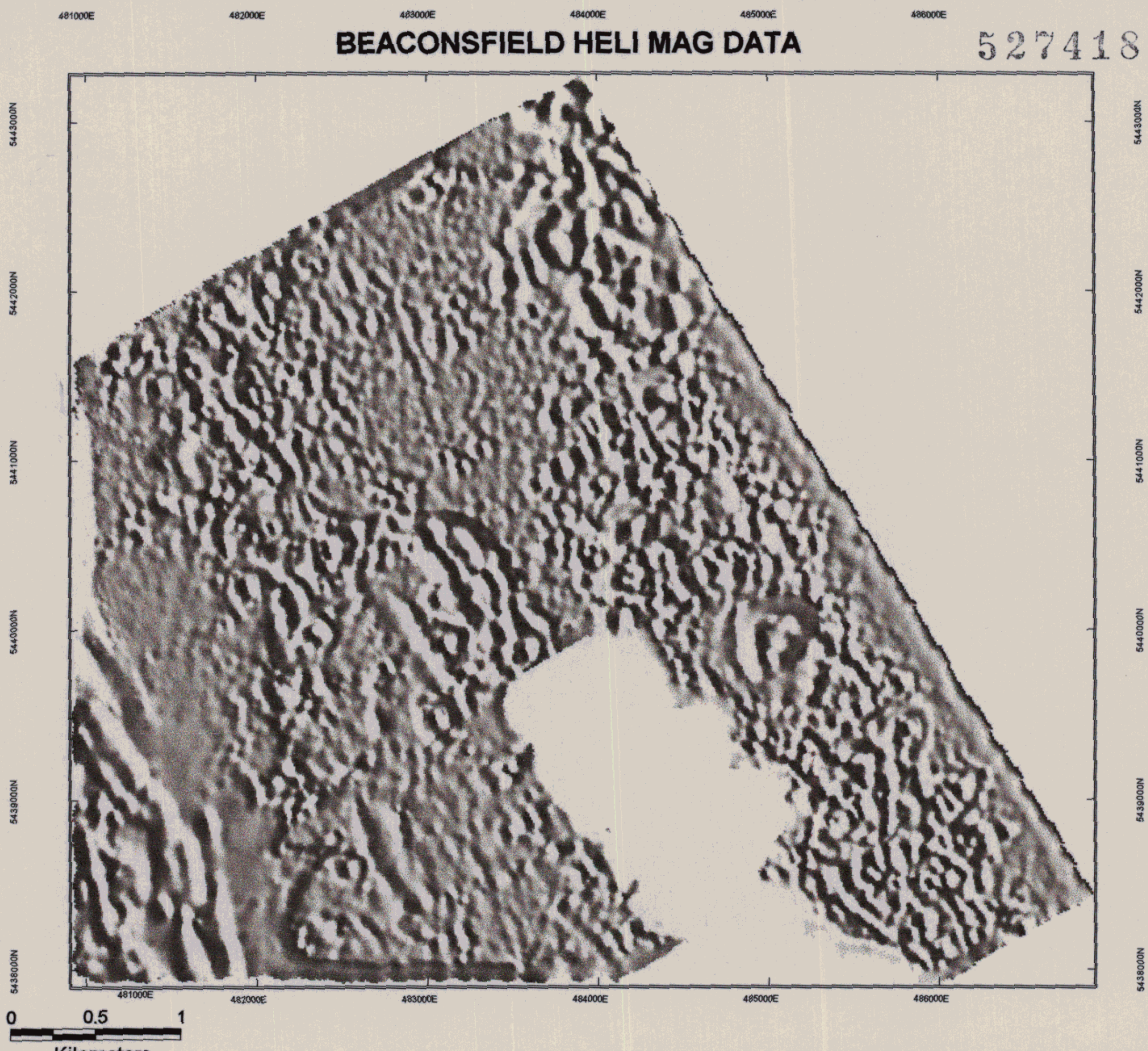
7/98

5 cm

HELICOPTER MAGNETIC SURVEY 50m AGC of 50r Masked RTP Colour	ALLSTATE EXPLORATIONS NL (BEACONSFIELD MINE JV)
Date: 27/8/98 Office:	
Author: RMS White File:	
Scale:	Drawing No.: Figure No.:

527418

BEACONSFIELD HELI MAG DATA



7/98

HELICOPTER MAGNETIC SURVEY

50m AGC of 50r
of RTP with sun DEC 071, inc 74

Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

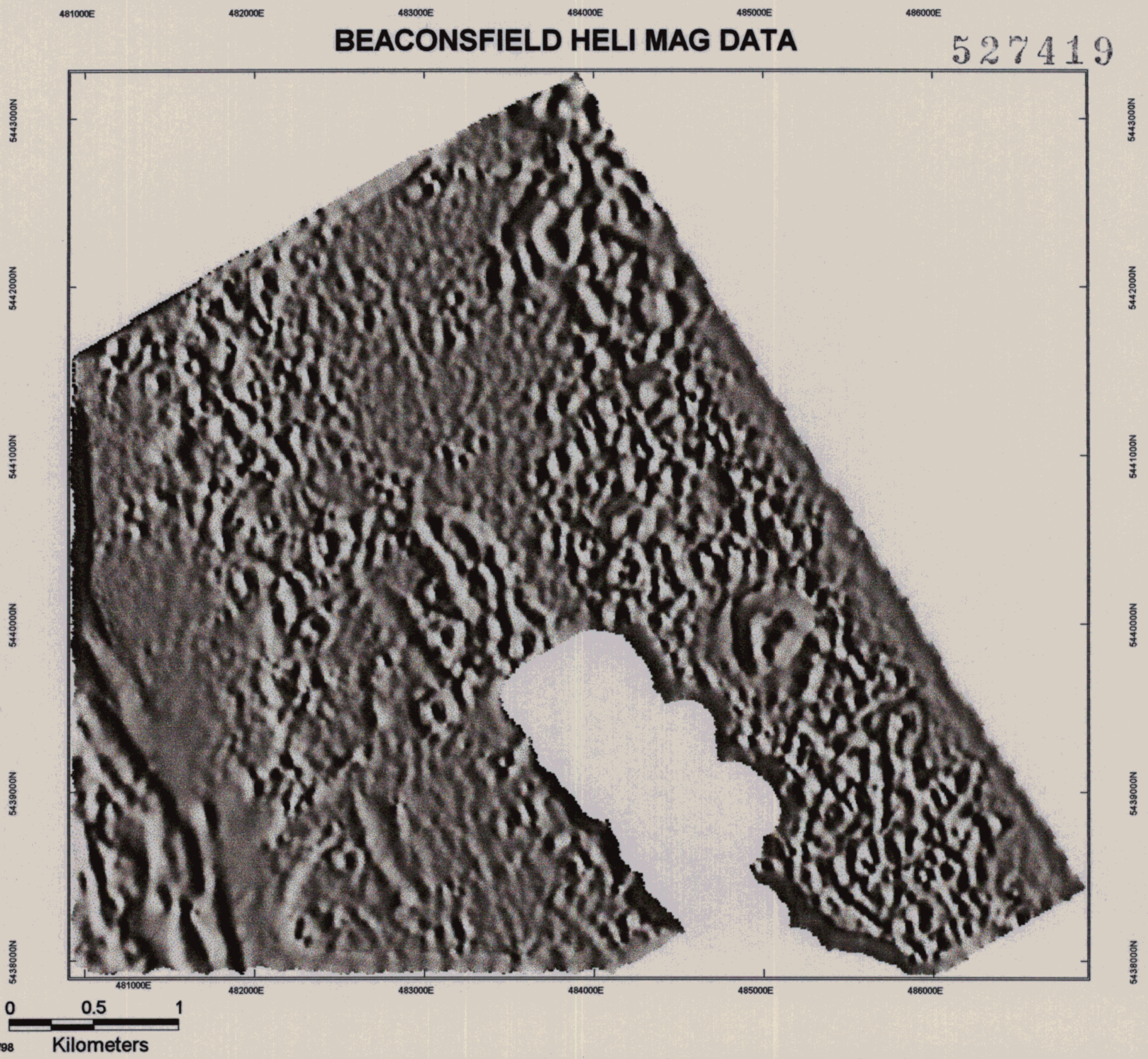
Drawing No.:

Figure No.:

5 cm

BEACONSFIELD HELI MAG DATA

527419



7/98

HELICOPTER MAGNETIC SURVEY

50m AGC of 50r
of RTP with sun DEC262, inc 61

Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

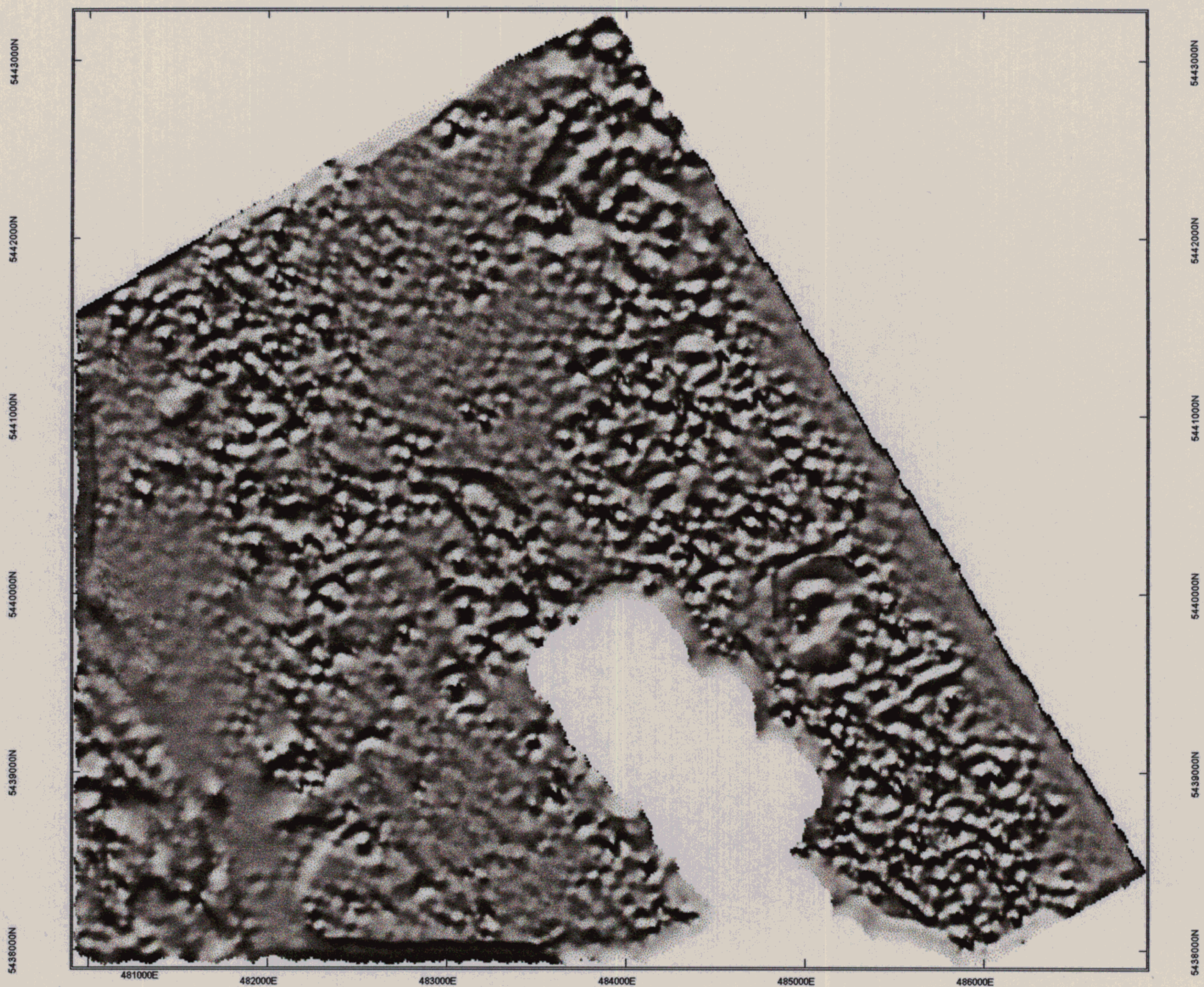
ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

527420

BEACONSFIELD HELI MAG DATA



0 0.5 1

7/98 Kilometers

HELICOPTER MAGNETIC SURVEY

50m AGC of 50r of RTP with sun DEC 346, inc 84

Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

ALLSTATE EXPLORATIONS NL

(BEACONSFIELD MINE JV)

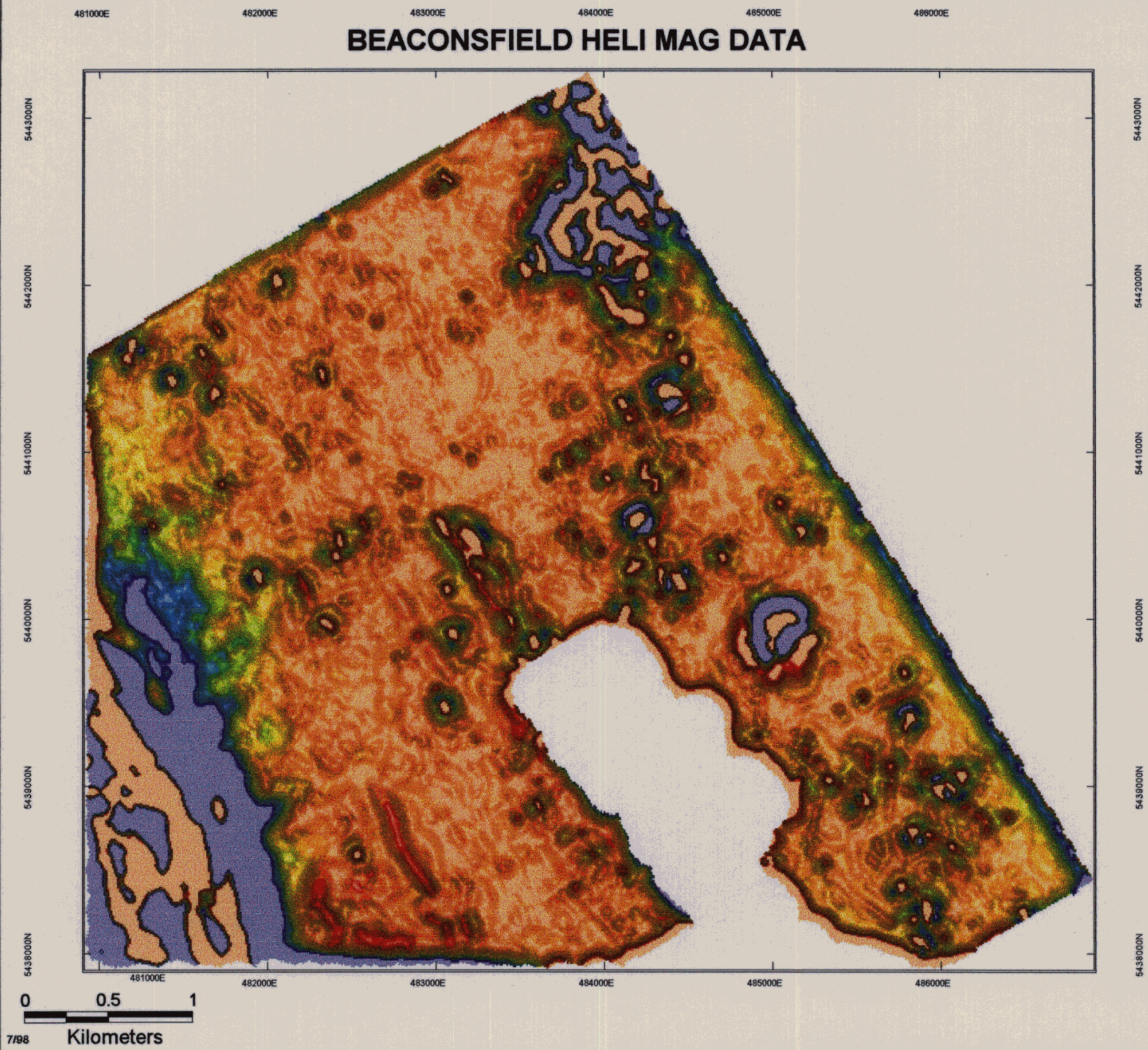
Drawing No.:

Figure No.:

5 cm

527421

BEACONSFIELD HELI MAG DATA



HELICOPTER MAGNETIC SURVEY

50m AGC of 50r
colours clipped -10 to 10

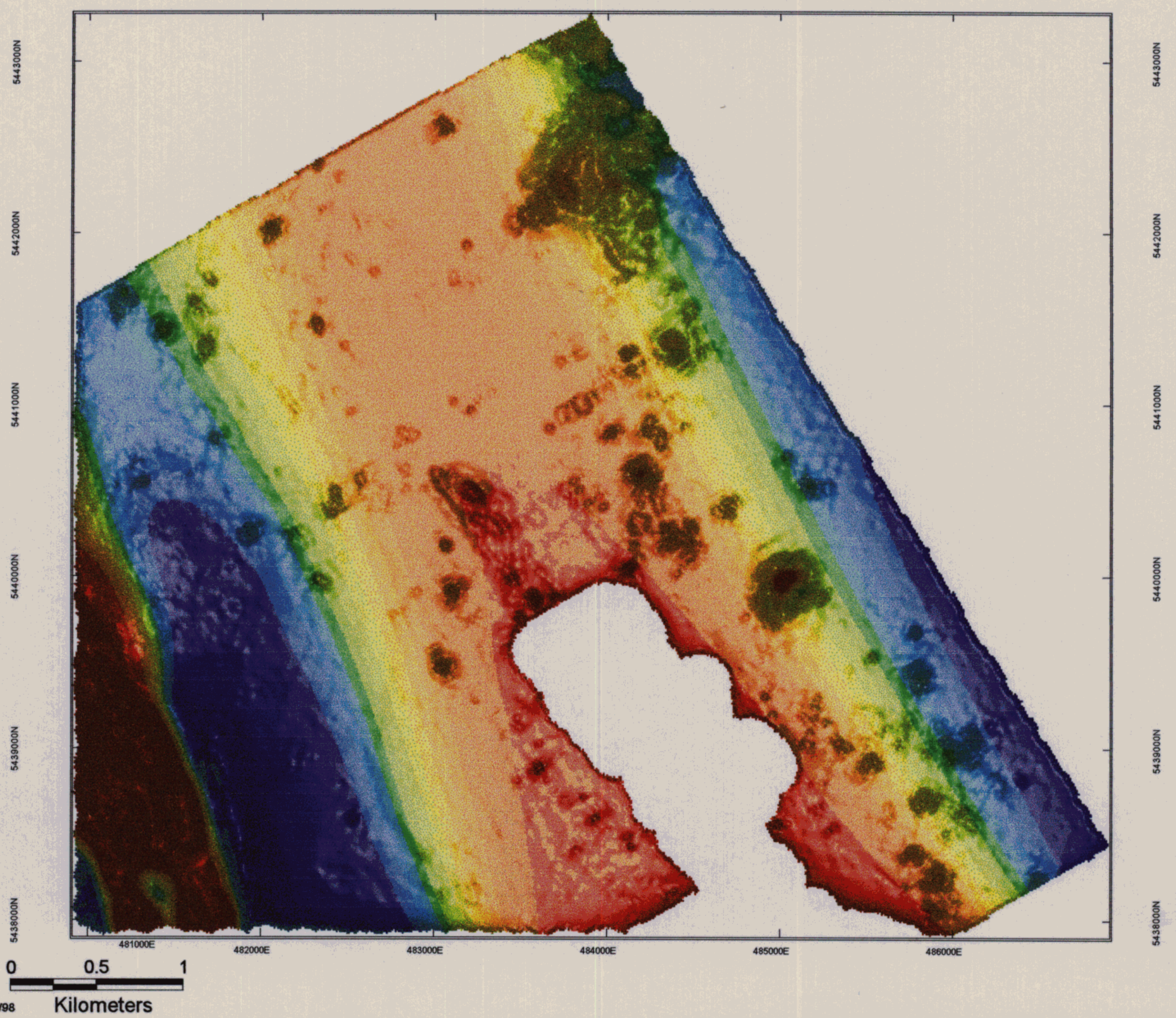
Date: 27/8/98 | Office:
Author: RMS White | File:
Scale:

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

BEACONSFIELD HELI MAG DATA



5 cm

HELICOPTER MAGNETIC SURVEY

RTP Colour with 1vd Intensity

Date: *27/8/98*	Office:
Author: *RMS White*	File:
Scale:	

ALLSTATE EXPLORATIONS NL

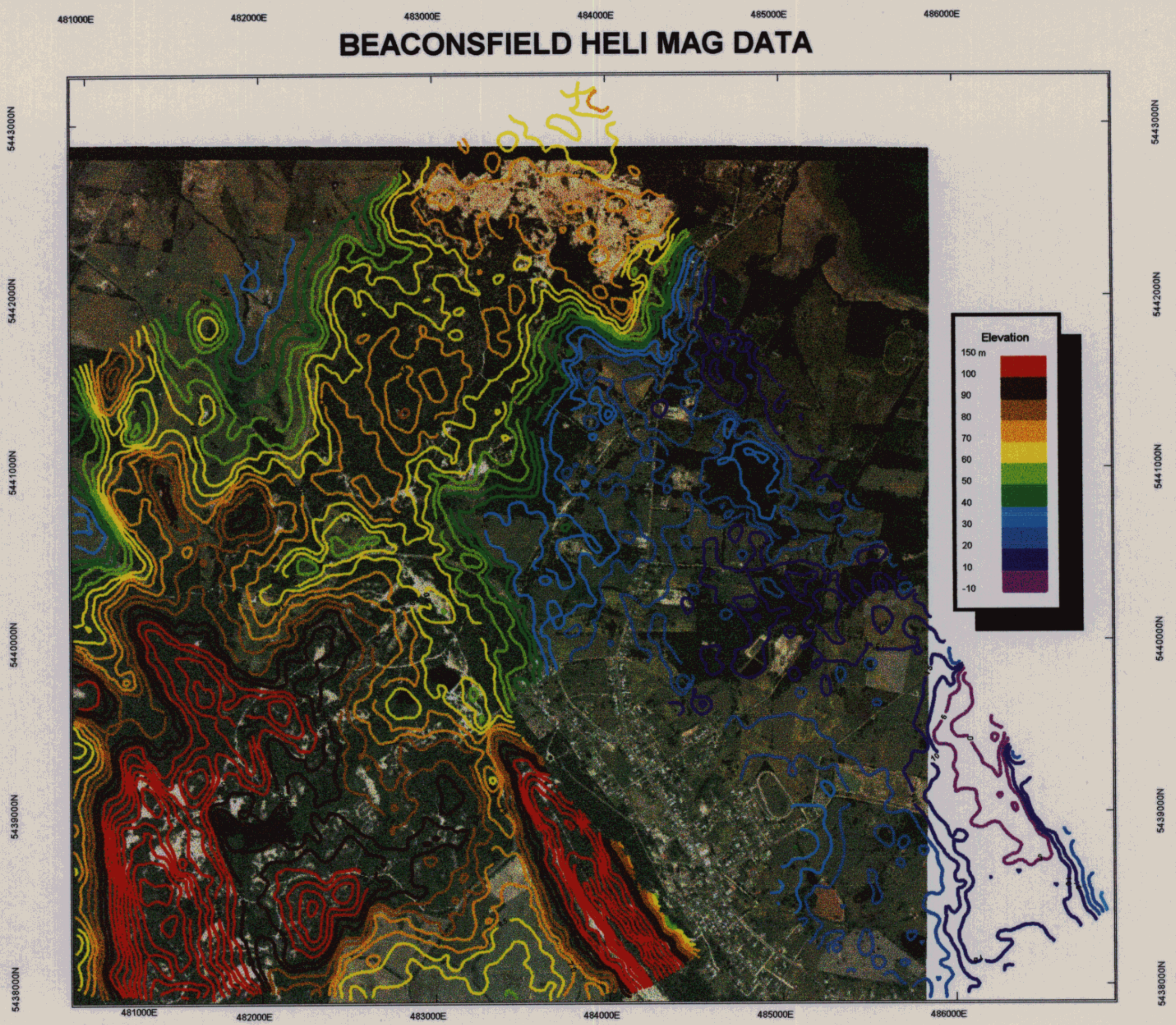
(BEACONSFIELD MINE JV)

Drawing No.:

Figure No.:

527423

BEACONSFIELD HELI MAG DATA



7/98

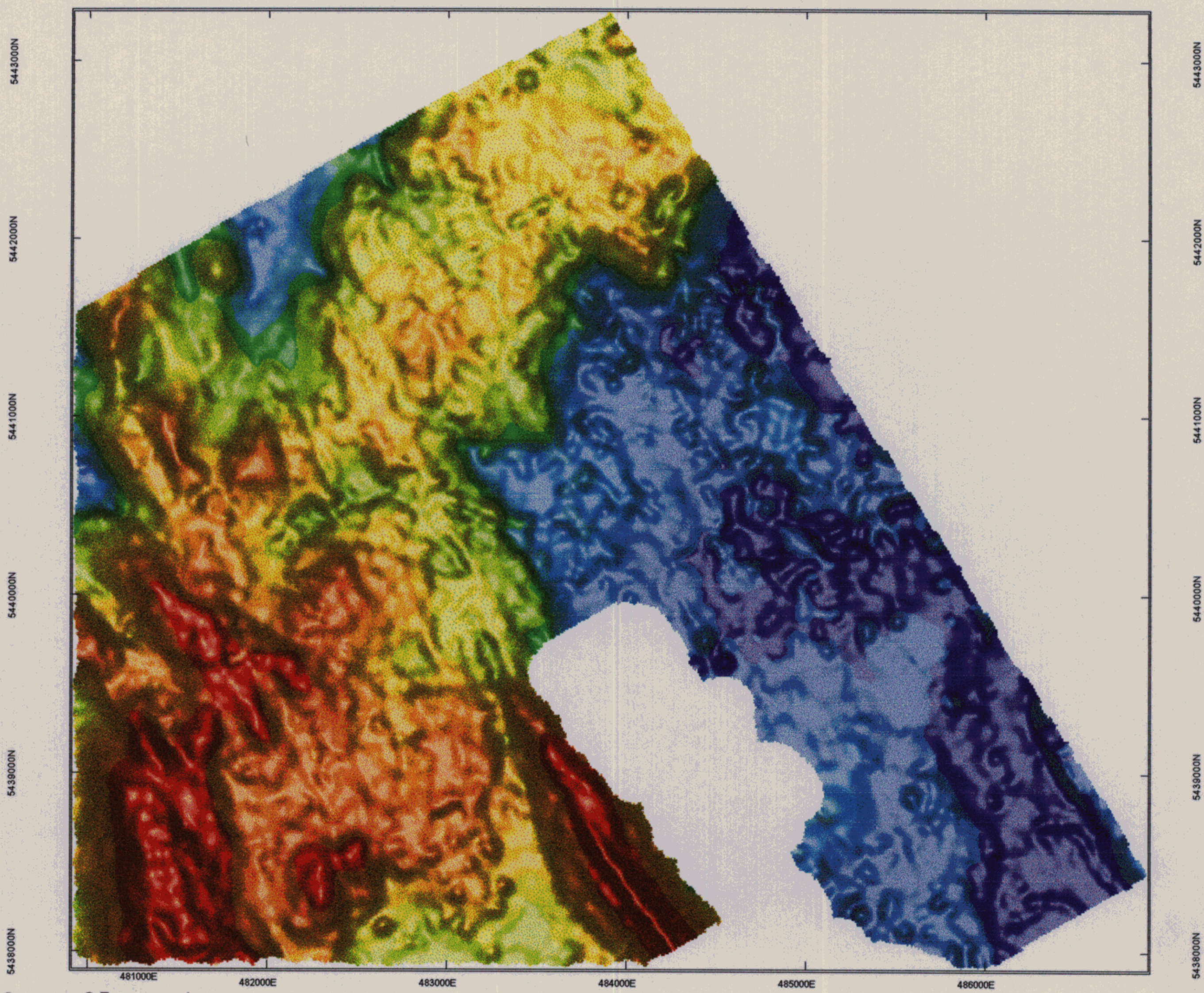
5 cm

HELICOPTER MAGNETIC SURVEY Elevation	ALLSTATE EXPLORATIONS NL (BEACONSFIELD MINE JV)
Date: 27/8/98 Office:	
Author: RMZ White File:	
Scale:	Drawing No.: Figure No.:

527424

481000E 482000E 483000E 484000E 485000E 486000E

BEACONSFIELD HELI MAG DATA



0 0.5 1

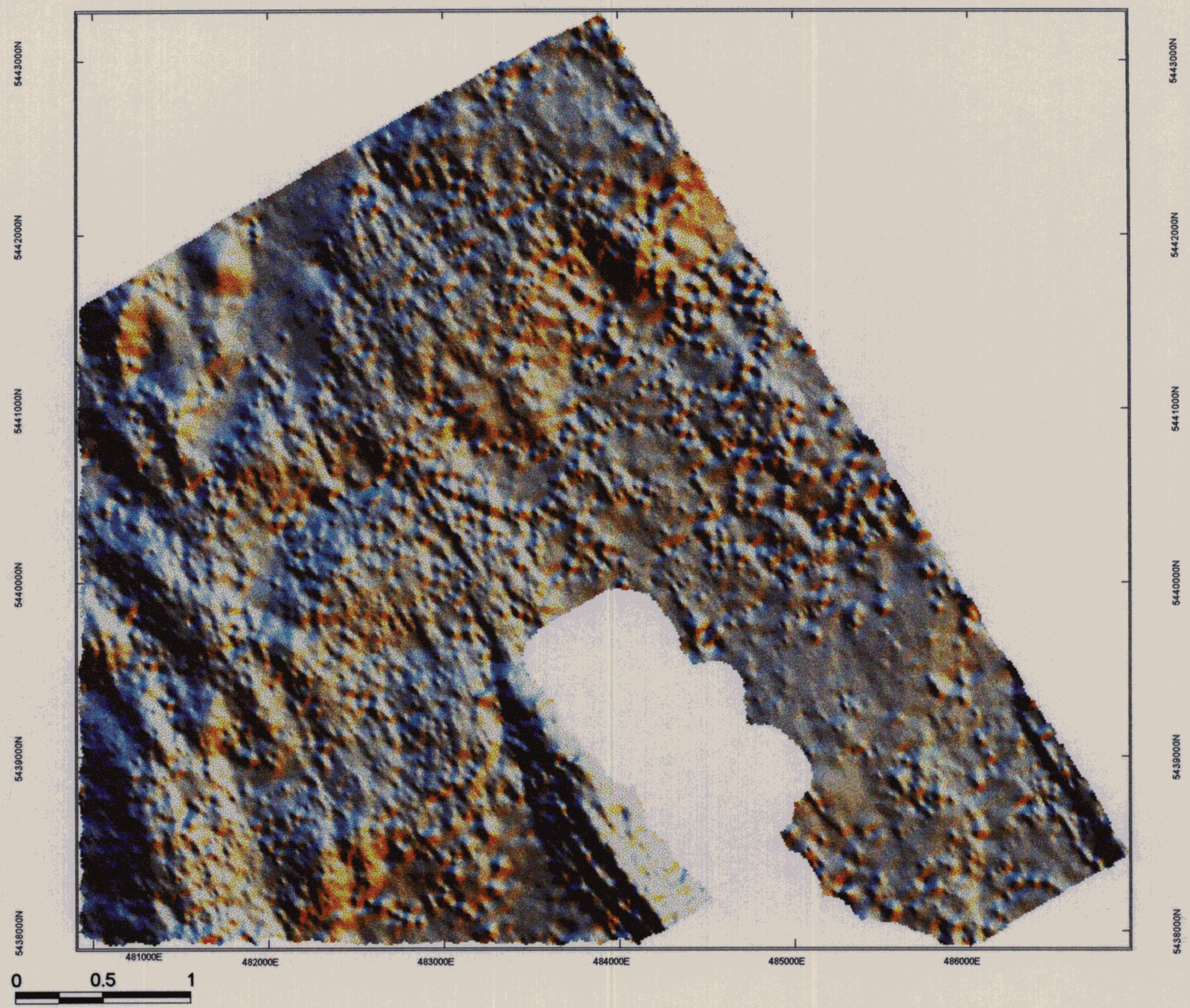
7/98 Kilometers

5 cm

HELICOPTER MAGNETIC SURVEY DTM (25m Filtered)	ALLSTATE EXPLORATIONS NL (BEACONSFIELD MINE JV)
Date: 27/8/98 Office:	
Author: RMS White File:	
Scale:	Drawing No.: Figure No.:

527425

BEACONSFIELD HELI MAG DATA



7/98

HELICOPTER MAGNETIC SURVEY

DTM
Composite Sun Angle

Date: 27/8/98	Office:
Author: RMS White	File:
Scale:	

ALLSTATE EXPLORATIONS NL
(BEACONSFIELD MINE JV)

Drawing No.:
Figure No.:

5 cm

APPENDIX 7

STANLEY and PAYNE

(A ground magnetic survey of the Beaconsfield township)

527427

Project Report 98106
July 1998

A Ground Magnetic Survey of the Beaconsfield Township

Beaconsfield, Tas, Australia

Prepared For:

Grant MacDonald
Beaconsfield Mine Joint Venture

Prepared By:

Dr. John M. Stanley
Ben Payne
Geophysical Technology Limited
P O Box U9
Armidale NSW 2351
Phone 61 2 6773 2617
Facsimile 61 2 6773 3307

GTL

DISCLAIMER AND COPYRIGHT NOTICE
GEOPHYSICAL TECHNOLOGY LIMITED

DISCLAIMER

Please read this Disclaimer
This Disclaimer is an important legal document. The use of this report is governed by and subject to this Disclaimer.

GTL's Client
The person who commissioned this report, and who is GTL's client is the Beaconsfield Mine Joint Venture ("the Client").

Purpose of this Report
This report was commissioned for the purpose of specifying the objectives, methodology employed and results of a hand held, differential GPS positioned, digital, magnetic survey conducted to aid the mineral exploration program in the Beaconsfield area, Tas, Australia. ("the Purpose").

Disclaimer
GTL accepts no responsibility or liability for any use of this report or any reliance upon this report by any person, other than the use of the whole of this report by the Client consistent with the Purpose.

GTL accepts no responsibility or liability to any person who relies upon a part of this report. This report must at all times be considered in its entirety.

COPYRIGHT

TABLE OF CONTENTS

Disclaimer And Copyright Notice i

Table of Contents ii

EXECUTIVE SUMMARY 1

OBJECTIVES 1

SURVEY INSTRUMENTATION 1

SURVEY METHODOLOGY 2

DIFFICULTIES ENCOUNTERED 2

DATA PROCESSING 2

LIST OF FIGURES

Figure 1. Map showing the location of the area surveyed 3

Figure 2. Colour image of the total magnetic field data 4

LIST OF TABLES

Table 1. Equipment Specifications 5

Table 2. Survey Specifications 6

APPENDIX

One CD-ROM containing base-station corrected magnetic data in XYZ format

Project Report 98106
July 1998

A Ground Magnetic Survey of the Beaconsfield Township

Beaconsfield, Tas, Australia

EXECUTIVE SUMMARY

GTL was contracted to undertake a ground magnetic survey throughout the township of Beaconsfield. The survey was conducted along a systematic pattern of transects oriented at 47 degrees (magnetic) and nominally separated by 50 metres. Differential GPS positioning was used permitting the survey transects to wander from a straight line without loss of positional information thereby enabling the survey operator to minimise interference from disturbance from cultural magnetic sources such as buildings, motor vehicles, fences and other ferrous objects. Data was recorded at intervals of nominally 0.25 metres for the purpose of properly sampling not only the deep signal of geological origin but also to properly sample the higher frequency interference from surface sources. With this strategy, it will be possible for the cultural interference to be minimised by the application of a non-linear filter before upward continuing the data to match that of the adjacent airborne survey. (This data processing was not required of GTL).

A total of approximately 52 line km of survey data were recorded. The data were corrected for temporal variations in the magnetic field as recorded at a base-station. The base-station corrected data was then presented as a colour image in this report. A digital copy of the positioned data (in standard Geosoft XYZ format) recorded on CD-ROM accompanies this report.

OBJECTIVES

The objectives of this magnetic survey were to acquire data through the township area and adjacent steep country where it was not possible to conduct a low elevation airborne survey. Figure 1 contains a map showing the location where the survey was conducted. The objective of both the airborne and ground level surveys were to acquire data with which to assist in geological mapping.

SURVEY INSTRUMENTATION

A GTL, TM-4 (caesium vapour) magnetometer was used as the mobile instrument. Data were recorded at a rate of 5 measurments per second, which at a typical walking speed of 1.25 m per second acquired data at nominally 0.25m intervals. These magnetic data measurements were positioned using a Trimble Ag132 DGPS receiver which derived its differential correction information from the Omnistar satellite.

Positional information was updated once every second. RMS positional accuracy of this system was better than one metre. A Geometrics G856 (proton precession) magnetometer was used as a base-station reference, sampling at 15 second intervals. A summary of survey equipment specifications is contained in Table 1.

SURVEY METHODOLOGY

Data were recorded by the mobile magnetometer along transects that were oriented at nominally 47 degrees (magnetic) this being perpendicular to the known geological strike. The nominal transect separation was 50 metres. While the above specifications were nominated, the actual course of each survey line was selected so as to avoid obstructions such as buildings, and to avoid where possible sources of magnetic interference such as motor vehicles, fences and other ferrous debris. Maximum advantage was made of any open areas such as parks. A summary of survey specifications is contained in Table 2.

DIFFICULTIES ENCOUNTERED

Survey productivity was hindered by technical difficulties that were recognized as the responsibility of GTL and, consistent with our agreed contract, the additional time taken was therefore not charged for. The technical difficulties concerned involved malfunctions that were evident in the instrument diagnostics. They were problems that prevented data acquisition rather than problems that compromised data quality. All of the data acquired was verified for its integrity while the crew was on-site and before being submitted for final processing.

DATA PROCESSING

Preliminary processing was performed while the survey crew was on site in order to confirm the integrity of the data. Final processing consisted of base-station subtraction and the assignment of position to each magnetic measurement. The positioning is referenced to AMG coordinates. The positioned data was then archived to CD-ROM in Geosoft standard "XYZ" format. The data was also interpolated to a regular square grid for imaging. Figure 2 contains a colour image of the gridded data.

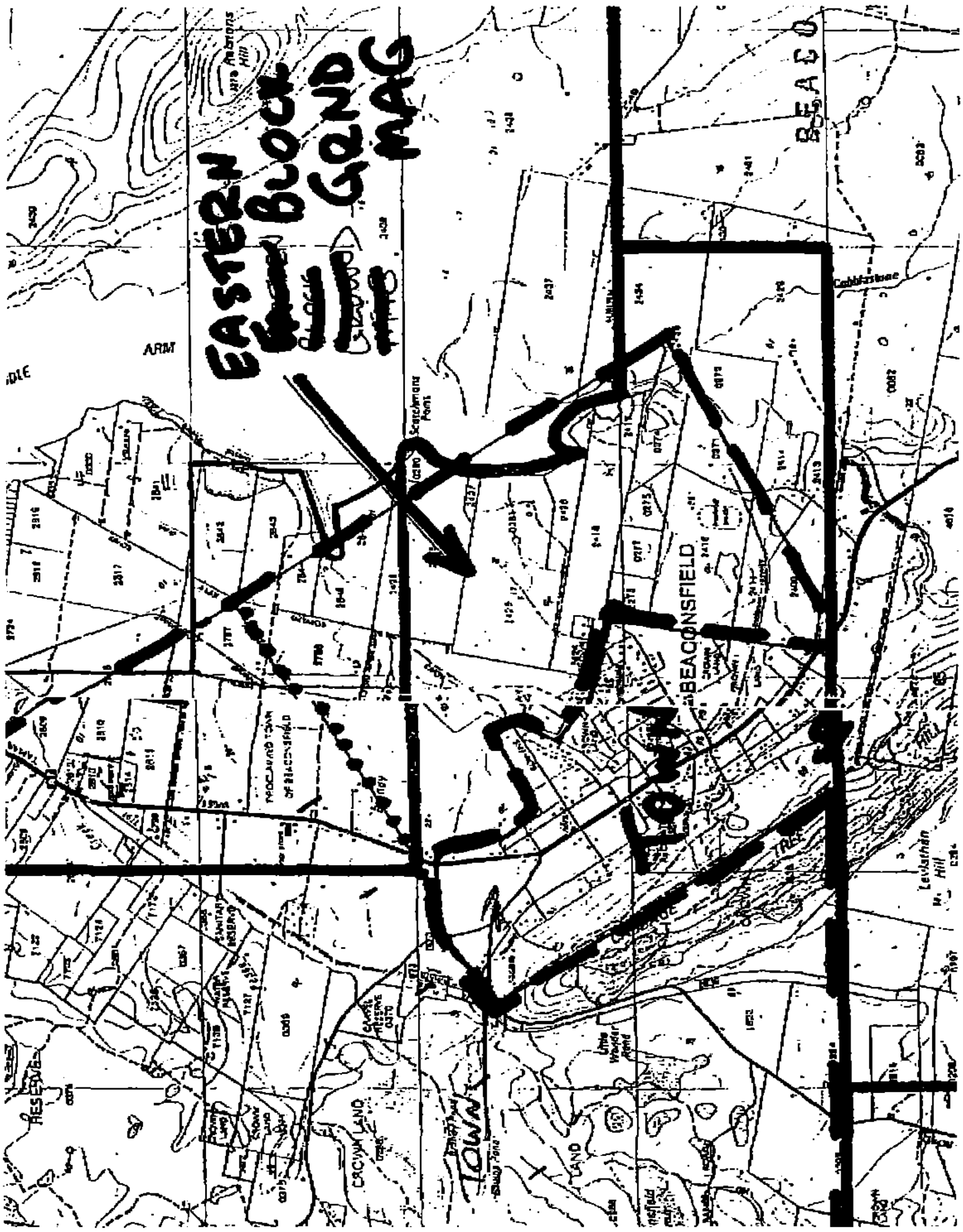


Figure 1. Copy of map outlining the area where the ground magnetic survey was undertaken.

527433

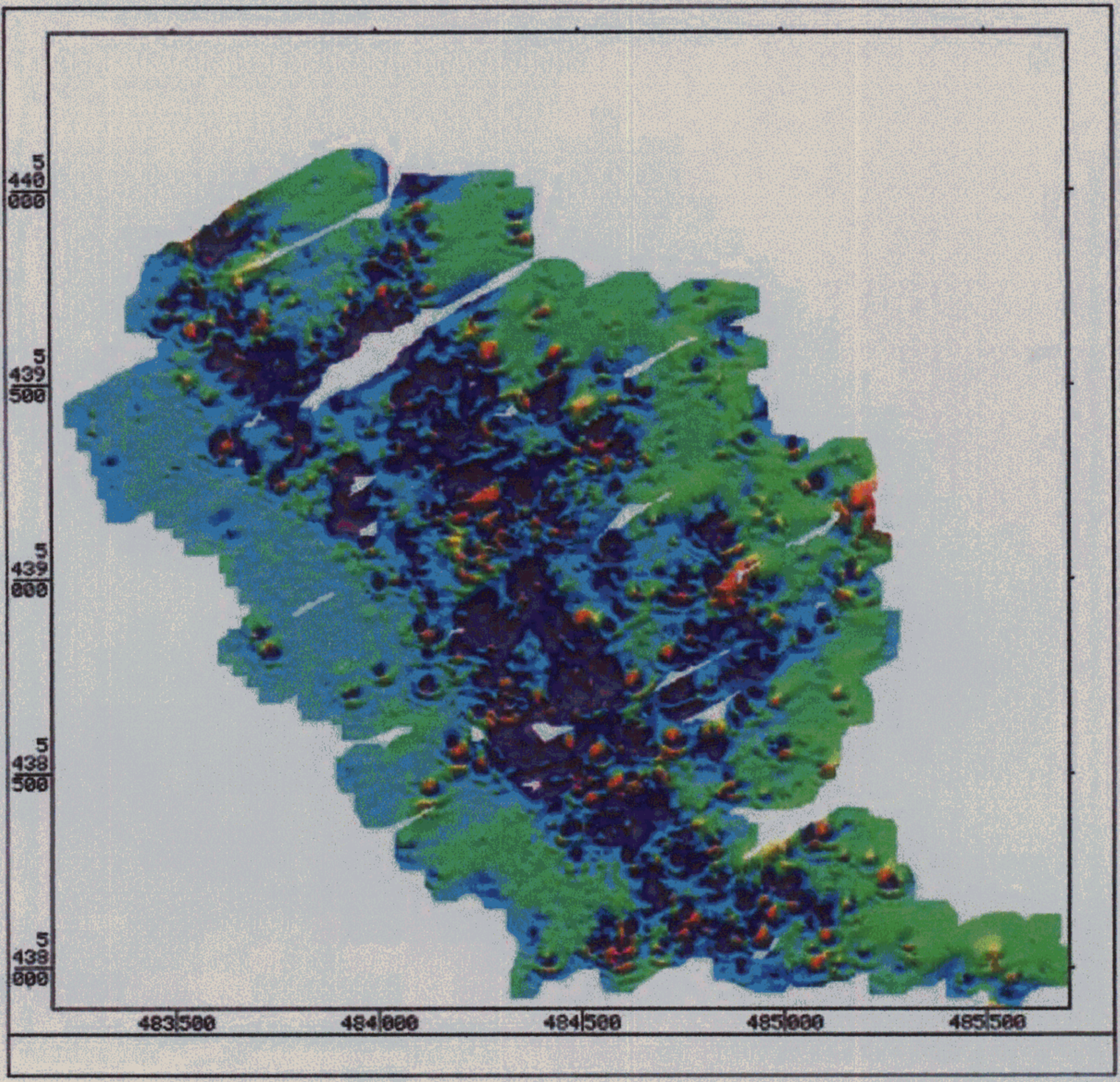


Figure 2. A histogram-equalised colour image with superimposed grey-scale incident light enhancement from the south-east. The data presented has been base-station corrected for temporal variations in the earth's magnetic field but is otherwise "raw data". Grid coordinates shown are AMG, Zone 55 (north up the page).

527434

Mobile Magnetometer	Type	Model/Description
Controller	Digital	GTL TM-4 (GPS Compatible)
Memory	Battery Backed RAM	6 Megabytes
Sensor	Caesium Vapour Atomic Absorption	Geometrics G-822
Positioning	DGPS	Trimble AG132. 12 Channel C/A code with carrier phase smoothing.
	GPS Differential Corrections	Omnistar satellite link differential corrections received through combined antennae
	Accuracy	RMS 0.5 m horiz., 2m vert.
	Sample Rate	1 Hz
	GPS Antennae Layback	0.95 metres behind magnetometer sensors (relative to direction of travel)
Position Recording	Hand-Held PC	Hewlett Packard 200
	Logging Rate	1 second
Base-Station Magnetometer	**Type**	**Model/Description**
	Proton Precession	Geometrics G-856

Table 1. Equipment Specifications

527435

Magnetometer		
Sample Rate Logging Rate Operation Sensitivity 50 Hz Filter		100 Hz 5 Hz Two-person, hand-carried 0.05 nT On
Survey Positioning		
Navigation Line Spacing Coordinate System Sample Rate Position Recording	 Logging Rate Synchronisation	DGPS 50 m nominal WGS-84 transformed to AGM Zone 55 1 Hz 1 seconds To TM-4 by TTL Strobe and RS-232 GGA String
Base-Station		
	Sample Rate	15 seconds
Logistics		
	Survey Dates Survey Duration Geophysicist	Between 12th to 30th June 1998 5 days B Payne

Table 2. Survey Specification

APPENDIX 8

HONOURS THESES ABSTRACTS

Lithostratigraphy, sedimentology and palaeontology of the Denison Group, Beaconsfield, Tasmania.

Dale Lewis B.Sc.

UNIVERSITY OF TASMANIA

A research thesis submitted in partial fulfillment of the degree Bachelor of Science with Honours.

Department of Geology,
University of Tasmania,
May, 1998.

527438

ABSTRACT

The Denison Group is represented within the Beaconsfield area by a sedimentary sequence of conglomerate, sandstone and limestone, divisible into three major stratigraphical units (in ascending order): the Cabbage Tree Conglomerate, Salisbury Hill Formation, and Eaglehawk Gully Formation.

The Cabbage Tree Conglomerate consists of grey-light brown oligomictic pebble paraconglomerate interbedded with conglomeratic quartz arenite and fine quartz arenite. The conglomerate of the unit is very poorly sorted, and has a composition dominated by sub-angular to sub-rounded quartz, with minor chert and coarse siltstone.

The Salisbury Hill Formation is a sequence of dark grey-black quartz arenite interbedded with oligomictic granule-pebble (para- and ortho-) conglomerate and granule conglomeratic quartz arenite. It is divisible into five members based upon the abundance of conglomerate: the 2SC, 2CG, 1SC, WET, and PEB. Conglomerate of the Salisbury Hill Formation is poorly sorted and consists of sub-rounded to rounded quartz and minor chert, coarse siltstone, "rip-up" mudstone and Fe oxidised mudstone/chert clasts.

The Eaglehawk Gully Formation is a sequence of grey/grey-green quartz arenite interbedded with light grey, stylolitised bioclastic grainstone. It has been divided into six members mainly by variations in limestone abundance: the 2SL, 3LS, 1SL, 2LS, HLS, and 1LS. The quartz arenite decreases in grainsize with decreasing depth, and is calcareous in the upper two and lower two members. The limestone contains bioclasts of *Nuia*, echinoderms and brachiopods, and minor grapestone within sparry calcite cement.

Within the Beaconsfield area, the Denison Group represents an overall transition from a terrestrial environment to the open marine conditions of the overlying Gordon Group. The Cabbage Tree Conglomerate and the members of the Salisbury Hill Formation represent a repetitive alternation between alluvial fan and broad braided fluvial depositional systems. These systems were derived from an eastward directed river(s) originating on the Badger Head Block to the west of Beaconsfield, which passed over a thin Cambrian slice, and the Andersons Creek Ultramafic Complex collecting sediments along the way. The Eaglehawk Gully Formation was deposited within a transgressive

527439

tidal flat-carbonate barrier system, with a palaeoshoreline striking approximately north-south.

A conodont biostratigraphy constructed for the Eaglehawk Gully Formation determined a stratigraphic range for the formation from Middle Tremadoc to Upper Arenig. The upper contact of the formation with the Gordon Group is Middle to Upper Arenig.

STRUCTURAL AND GEOCHEMICAL CONTROLS ON GOLD MINERALISATION AT BEACONSFIELD, NORTHERN TASMANIA.

Hayden William Parry BSc.

UNIVERSITY OF TASMANIA

A thesis submitted in partial fulfilment of the requirements of the degree of Bachelor of Science with Honours.

Geology Department, University of Tasmania.

Centre for Ore Deposit and Exploration Studies
University of Tasmania

June 1997

527441

Abstract.

The Beaconsfield goldfield, northern Tasmania, consists of auriferous quartz-carbonate-sulphide veins, hosted within the Ordovician Cabbage Tree Formation and the Flowery Gully Limestone. These host rocks consist of a shallow marine sequence of siliciclastic conglomerates, sandstones and fossiliferous siltstones conformably overlain by massive stylolitic limestone. Regional silicification dominates alteration within the siliciclastics, and is also recognisable within the limestone.

The Beaconsfield Block is situated in between the Precambrian Badger Head Block and the Tamar Valley. West-directed thrusting emplaced the Ordovician rocks and the underlying Cambrian sediments and ultramafics against the Badger Head Block; stratigraphic repetition occurs across the region. Five deformational events are recorded within the Ordovician rocks. Early east-west faulting, now host to the mineralisation, was reactivated during two generations of Devonian thrusting related to the Tabberabberan Orogeny. Both southwest directed and northwest directed thrusting are recorded, but relative ages were not determinable. Devonian thrusting resulted in the gold mineralising event. North-south faulting displaced mineralised veins, with the Tasmania Reef having undergone dextral displacement of approximately 70m. Later faulting, possibly a result of the emplacement of Jurassic dolerites and Tertiary basalt, is evident within the Beaconsfield area but does not affect the mineralisation.

The Tasmania Reef is a single vein with a strike length of approximately 395 m; it has been mined to a depth of 450 m with resources indicating ore extensions to at least 1000 m. Grades vary throughout the reef but the average is 23 g/t Au. The overall mineralogy of the Tasmania Reef consists of five paragenetic stages that are comprised of quartz, ankerite, calcite, gold, pyrite, arsenopyrite, chalcopyrite, sphalerite, galena, tetrahedrite and bismuthinite. Gold is intimately associated with quartz, ankerite and pyrite. in stages two to four with minor amounts of base metal sulphide also being present in the fourth stage.

Stable isotope studies of sulfur have determined a mixture of sources for the origin of the sulfur, probably leaching from metasedimentary host rocks and

volcanics or ultramafics, in or adjacent to the fluid path, prior to deposition in the trap-site. *Studies of carbon/oxygen isotopes of carbonates have determined that the* mineralising fluids originated from a mixture of possibly metamorphic fluids, seawater and meteoric water, and appear to exclude a magmatic source for carbon.

Regional structural controls are repeated at the Salisbury Hill and North Tasmania Mine and widespread silicification is the dominant alteration throughout the region. Recognition of lithological repetition, structural repetitions related to thrusting and the isotopic characterisation of vein carbonates may be useful tools in further exploration in the region. Analysis of alteration suggests that the PIMA II technique of characterising clay-mineral alteration is not useful in identifying mineralised veins.