NEWNHAM EXPLORATION & MINING SERVICES

PACIFIC-NEVADA MINING PTY LIMITED

EL 10/97 - CAPE SORELL

REPORT ON EXPLORATION PROGRAMS

SEPTEMBER 1999-FEBRUARY 2000

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15 April 2000

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1. SUMMARY

Previous exploration by Pacific-Nevada in the Cape Sorell area defined IP anomalies and several gold anomalies in stream sediment, soil and rock samples taken over magnetically active Cambrian formations adjacent to a major regional fault structure in the North Butler Creek area.

Detailed follow-up programs highlighted the geochemical anomalism and geophysical responsiveness of a sequence of Cambrian volcanics and sediments which were mapped as structurally deformed and strongly altered in places.

A program of six (6) cored drill holes totalling 1955 m was completed between December 1999 and January 2000 to test the main anomalous zones.

These drill holes intersected a Cambrian volcanic and intrusive sequence overlying a sequence of carbonaceous black shales and siltstones grading down into sandstone, quartzite and debris flow units.

The volcanic and intrusive units are interpreted as having produced the anomalous magnetic responses defined by ground and airborne surveys.

The highly pyritic and graphitic carbonaceous shales were responsible both for the IP and airborne EM responses of earlier surveys, and for the majority of the geochemical anomalies.

Carbonate-silica-pyrite-sericite alteration was pervasive, especially in the folded(?) Cambrian sedimentary units in the eastern section of the drill tested area.

Only minor gold and base metal mineralisation was identified in the drill holes, principally in semi-massive pyritic intervals in the black shale-siltstone section.

Best intersections were:

NB 001:	4 m	0.13 g/t Au, 14.3% S
NB 002:	3 m	0.10 g/t Au, >10% S
NB 003:	6 m	0.14 g/t Au, 13.8% S

Gold values in drill holes were not as high as corresponding surface rock-chip samples. One explanation of this is possible near surface growth enhancement of gold in an acid ground water environment.

> Whilst assay results were disappointing, the program did succeed in defining a major sulfide rich alteration system within a deformed zone of Cambrian volcanics and sediments adjacent to a regional structure. In the context of Tasmanian economic geology, this is viewed as substantially encouraging, being broadly analagous to the setting of the Henty gold deposit to the north.

Exploration methodologies developed in the North Butler area are regarded as effective and efficient for both the target sought and the exploration environments. They could justifiably be extended along the 15 km structural zone extending south-west of North Butler.

2. INTRODUCTION

Pacific-Nevada Mining Pty Limited is the holder of EL 10/97 covering the northern section of the Cape Sorell Peninsula (Fig 2).

The principal exploration target is primary gold deposits which have the potential to be substantial, low cost producers.

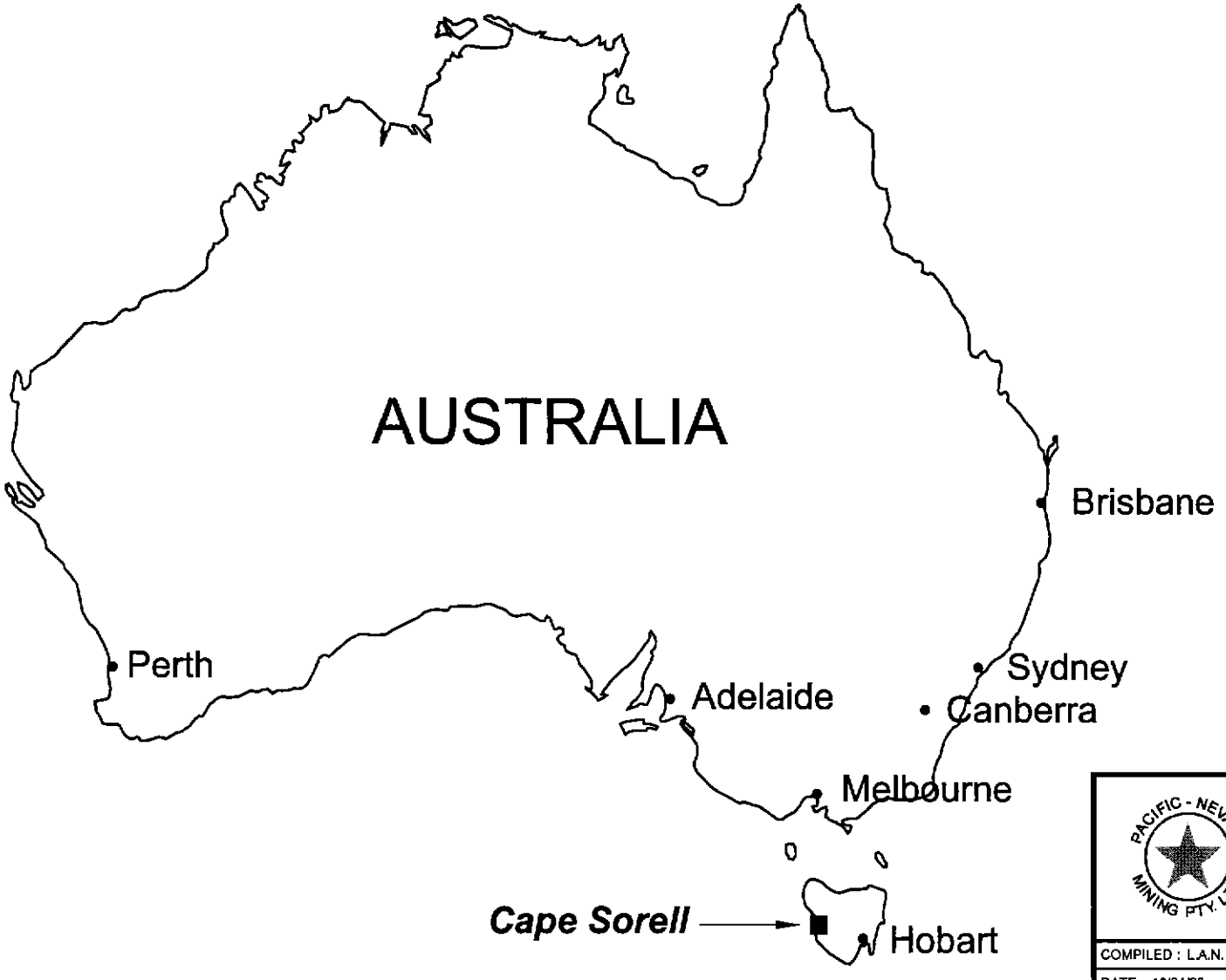
The licence area is underlain by a sequence of Cambrian or Eocambrian sediments and minor volcanics overthrust by Proterozoic quartzites to the north and faulted against Proterozoic sediments to the south (Figs 3, 4).

This southern faulted contact has been the focus of most exploration to date. District mapping suggests the contact zone actually consists of several major north-east trending structures which cut right across the Cape Sorell Peninsula. Several large hematite-magnetite-pyrite bodies have been identified within this structural package.

The North Butler area lies adjacent to a 'splay' structure close to the northern end of this north-east structural package. Pacific-Nevada was attracted to this area by the combination of:

- stream, soil and rock gold geochemical anomalism defined by Pacific-Nevada surveys
- aeromagnetic anomalism
- airborne EM anomalies previously defined by other explorers
- geological setting based on government district mapping

In mid-1999 it was decided to complete a series of further geological, geochemical and geophysical surveys in the North Butler area. Results of these surveys would be used to design a drilling program to be completed in the 1999-2000 summer field season.



PACIFIC-NEVADA MINING PTY. LTD

CAPE SORELL PROJECT
EL 10/97 and EL 9/98

LOCATION PLAN

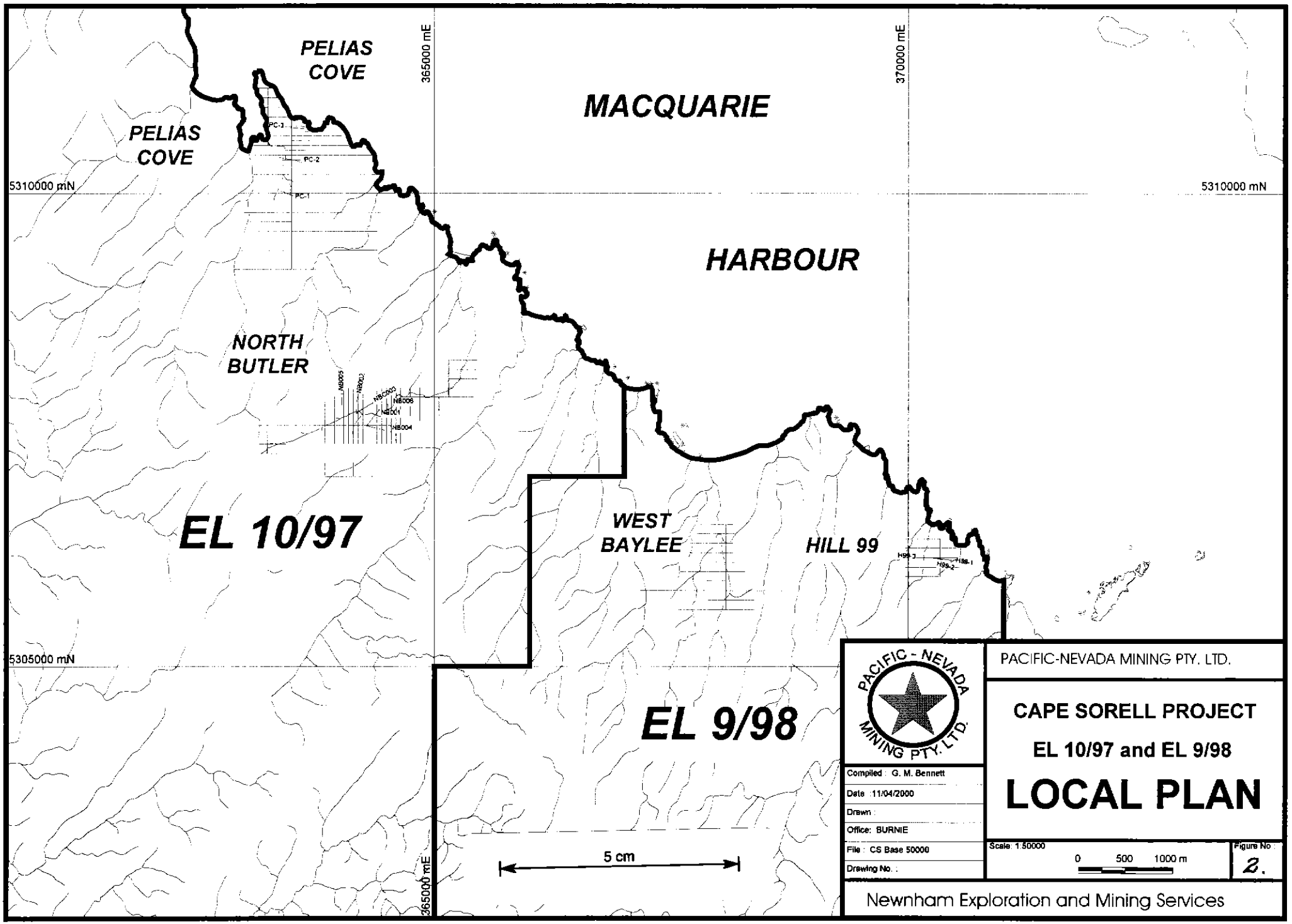
COMPILED : L.A.N.	
DATE : 10/04/00	
DRAWN : G.M.Bennett	
OFFICE :	
FILE : PN Australia	
DWG No. :	

SCALE : 0 5000 10000 km

Figure No. 1.

Newnham Exploration and Mining Services

67006


PELIAS COVE
PELIAS COVE
MACQUARIE
HARBOUR
NORTH BUTLER
WEST BAYLEE
HILL 99
EL 10/97
EL 9/98
365000 mE
370000 mE
5310000 mN
5310000 mN
5305000 mN
365000 mE
PC-3
PC-2
PC-1
NB005
NB002
NB006
NB001
NB004
H99-3
H99-2
H99-1
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
CAPE SORELL PROJECT
EL 10/97 and EL 9/98
LOCAL PLAN
Compiled : G. M. Bennett
Date : 11/04/2000
Drawn :
Office: BURNIE
File : CS Base 50000
Drawing No. :
Scale: 1:50000
0 500 1000 m
Figure No : 2.
Newnham Exploration and Mining Services

3. EXPLORATION COMPLETED SEPTEMBER 1999-FEBRUARY 2000

3.1 Summary:

The following work programs were completed in the six-month period September 1999-February 2000:

- development of an in-fill detailed grid
- mapping and rock-chip sampling of the gridded area
- soil sampling of the in-fill grid lines
- ground magnetic survey of the gridded area
- six-hole core drilling program

3.2 Access Development:

Encouraged by results of district exploration, Pacific-Nevada had previously established a system of 100 m spaced cut grid lines over the North Butler area. On this grid they completed programs of soil and limited rock sampling and IP surveying (gradient array).

Results from this work were encouraging. It was decided to conduct some more detailed surveys on which to base a summer drilling program. To facilitate this work a series of intermediate grid lines were cut, so that the resultant coverage was a grid with 50 m spaced lines.

Cutting was undertaken in September by a two-person crew led by Gordon Galbraith, working out of a tent camp adjacent to a helipad on the western end of the grid.

Lines were marked at 50 m intervals and slope corrected.

3.3 Mapping and Rock-chip sampling:

Geologist Nic Turner was engaged to both map the gridded area in detail and to sample as many outcrops as available for assay.

He and one assistant completed this project in a three-week period in September, working from the same camp as the line cutters.

3.3.1 Mapping:

Turner's geological map is presented as Fig 4.

It is important to recognise the limitations to surface geological mapping in areas such as North Butler. The region is covered by cool temperate rain forest developed on thick soils. Weathering and leaching processes are often deep.

The result is generally very sparse outcrops which, in turn, can be difficult to interpret because of weathering. In this context surface maps can contain a high degree of interpretation based on widespread data. Soft, deeply weathered units can at times present no outcrop; eg, the debris flow units in the drill holes probably have little or no outcrop.

Thus, in Fig 4, the geological boundaries as interpreted from the drilling have been superimposed on Nick Turner's mapping. The differences between the two data sets are not regarded as major and reflect the high standard of surface mapping in a difficult environment.

In summary, surface mapping suggests the North Butler area is underlain by a sequence of mafic volcanics and sediments, tightly folded around a WSW axis, plunging west. Faulting possibly accompanies this folding event and a zone of strong silica-sericite-pyrite alteration appears to be developed around the keel(?) of the syncline.

Of special note was a unit of dark gray carbonaceous fissile mudstone and siltstone with common pyrite, developed within the sedimentary package beneath the doleritic and gabbroic volcanic/intrusive formations.

3.3.2 Rock-chip sampling:

During the mapping program, Turner collected samples from outcrops for assay.

Samples were assayed by Analabs for Au, Cu, Pb, Zn, As, Ag and Ni. Results from these samples are presented in Appendix 1 and on Figs 7 (a), (b), (c), (d) at 1:5,000 scale as contoured anomalies. Sample location points and actual assay values are available at 1:2,000 scale.

Because the distribution of rock-chip samples is not uniform over the whole area, contouring of values can only be of use in the broadest sense, and gives only a basic indication of rock geochemistry.

Of the four plans presented in this report, two significant features are evident:

(a) Rocks from the mafic volcanic/intrusive sequence are relatively elevated in base metals (Cu, Zn) when compared with the sediments.

(b) Au and As anomalism is restricted to the sedimentary package, in particular largely to the basal carbonaceous mudstone.

The most prominent anomaly is a Au-As anomaly in rocks north of the baseline from 7,800 N-7,900 N between lines 4,150 E-4,250 E.

3.4 Soil Sampling:

Following cutting of the in-fill grid lines, all lines were soil sampled with hand augers at 25 m intervals, and assayed by Analabs for Au, Cu, Pb, Zn, As, Ag.

A register of samples and their descriptions is presented as Appendix 2, and the assay results as Appendix 3.

The objective of the sampling was to take samples as close to bedrock in C-horizon soils as possible. Unfortunately, some sections of the gridded area were covered by scree or talus and the hand augers had difficulty penetrating this material. In general, however, the coverage is considered very good.

Results are presented in Figs 8 (a), (b), (c), (d) at 1:5,000 scale as contoured anomalies. Sample location points and actual assay values are available at 1:2,000 scale.

Two significant features are evident from this data:

(a) As with the rock samples, the base metal anomalies (Cu, Zn) closely reflect the mapped distribution of mafic volcanics and intrusives.

(b) Au anomalies (and to a lesser extent a few scattered As anomalies) reflect both the mapped distribution of the sedimentary formation, in particular, the basal mudstone, and the basal section of the mapped mafic volcanics.

3.5 Magnetic Survey:

Marker Exploration Pty Limited was engaged to complete a detailed ground magnetic survey on all cut lines. This data was interpreted by Nigel Hungerford of Flagstaff GeoConsultants. His report is presented as Appendix 4, and illustrated along with previously defined IP anomalies as Fig 5.

As with the geochemistry, the magnetics (and the IP) closely reflect the underlying geology as mapped.

Two features to note are:

(a) the mafic volcanics are the magnetically most responsive units

(b) the strongest IP anomaly lies towards the central-north of the gridded area over magnetically 'bland' formations

3.6 Drilling Program:

3.6.1 Program Design:

Guided by the above described geological, geochemical and geophysical surveys, it was decided to drill six (6) cored drill holes to test various anomalous zones.

The work was undertaken by Diamond Drilling (Tas) Pty Ltd, using two rigs (LF 70 and P 4), each drilling two 12-hour shifts/day, seven days/week.

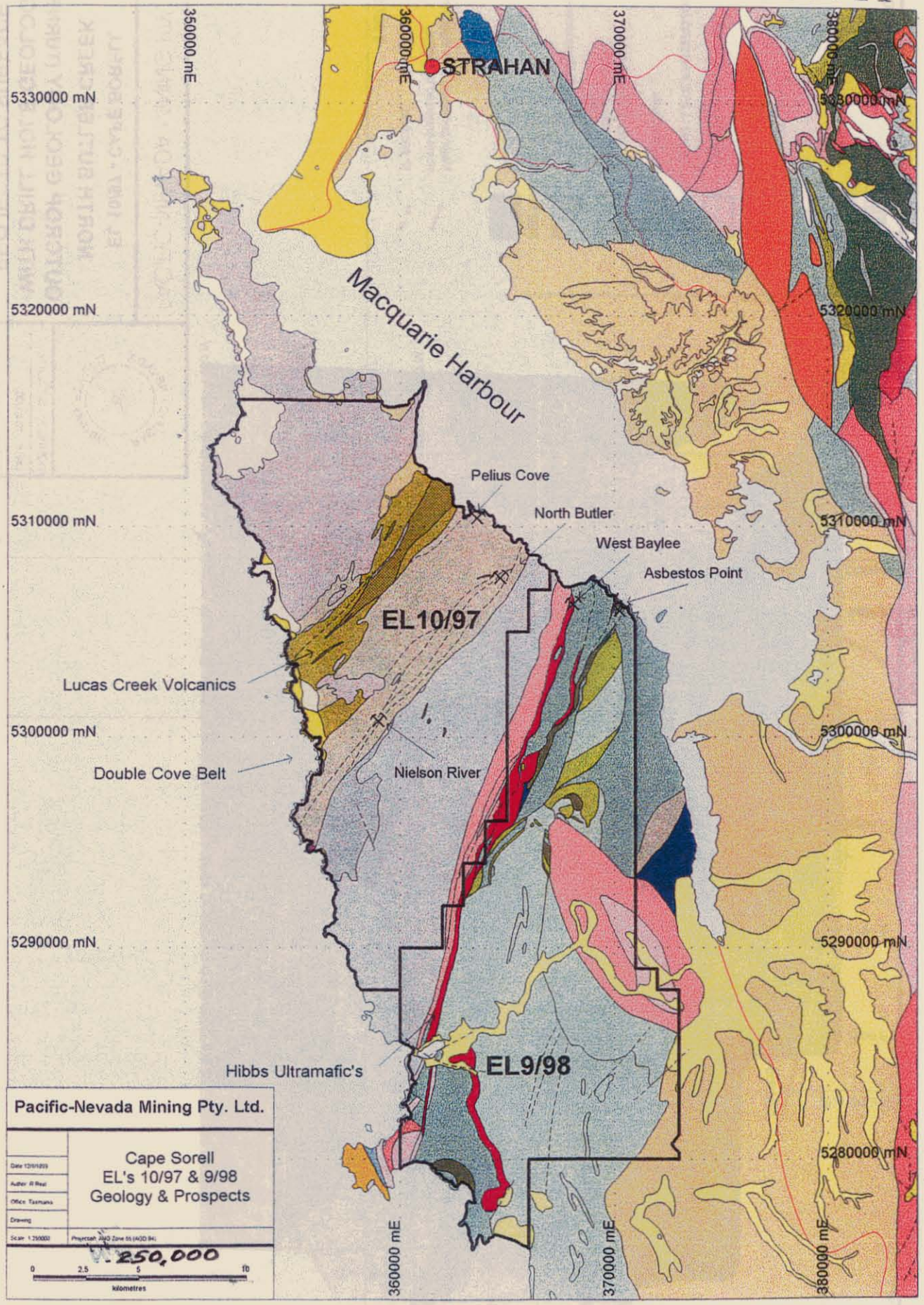
A helicopter (Ecuriel 350 B) supplied by Helicopter Resources was engaged on a sole-hire charter basis to move the rigs and provide all logistical support. Crews were flown to and from Strahan on a daily shift basis.

Core was transferred to the Zeehan office of Newnham Exploration & Mining Services where it was logged, photographed, halved by core saw for assay and stored. Drilling commenced on 01 December 1999 and completed on 24 January 2000, and included a two-week break for Christmas-New Year.

Total metreage was 1955 m.

Drill logs are attached as Appendix 5, assay registers as Appendices 6 and 7, and assay results as Appendix 8.

The drill hole locations are shown on all plans in this report and individual drill sections are presented as Figs 9 (a)-(f).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370000 mE
380000 mE
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5310000 mN
5300000 mN
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STRAHAN
Macquarie Harbour
Pelius Cove
North Butler
West Baylee
Asbestos Point
EL10/97
Lucas Creek Volcanics
Double Cove Belt
Nielson River
EL9/98
Hibbs Ultramafic's
Pacific-Nevada Mining Pty. Ltd.
Cape Sorell
EL's 10/97 & 9/98
Geology & Prospects
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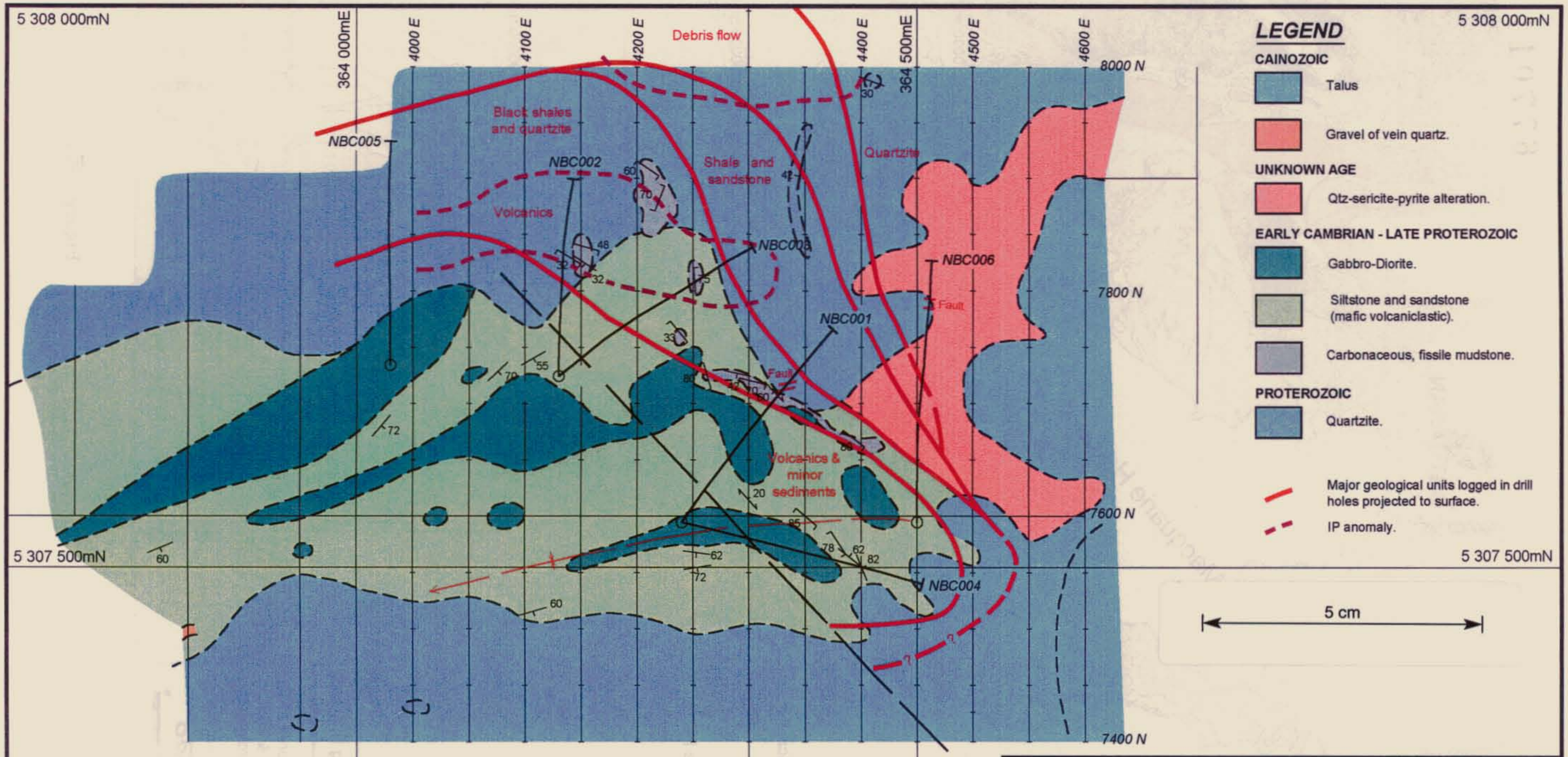
0
2.5
5
10
kilometres

5 cm

Figure 3.



PACIFIC-NEVADA MINING PTY. LTD

COMPILED : N.T./L.A.N.
DATE : 10/01/00
DRAWN : G. M. Bennett
OFFICE :
FILE : NB Geol DDH 5000
DWG No. :

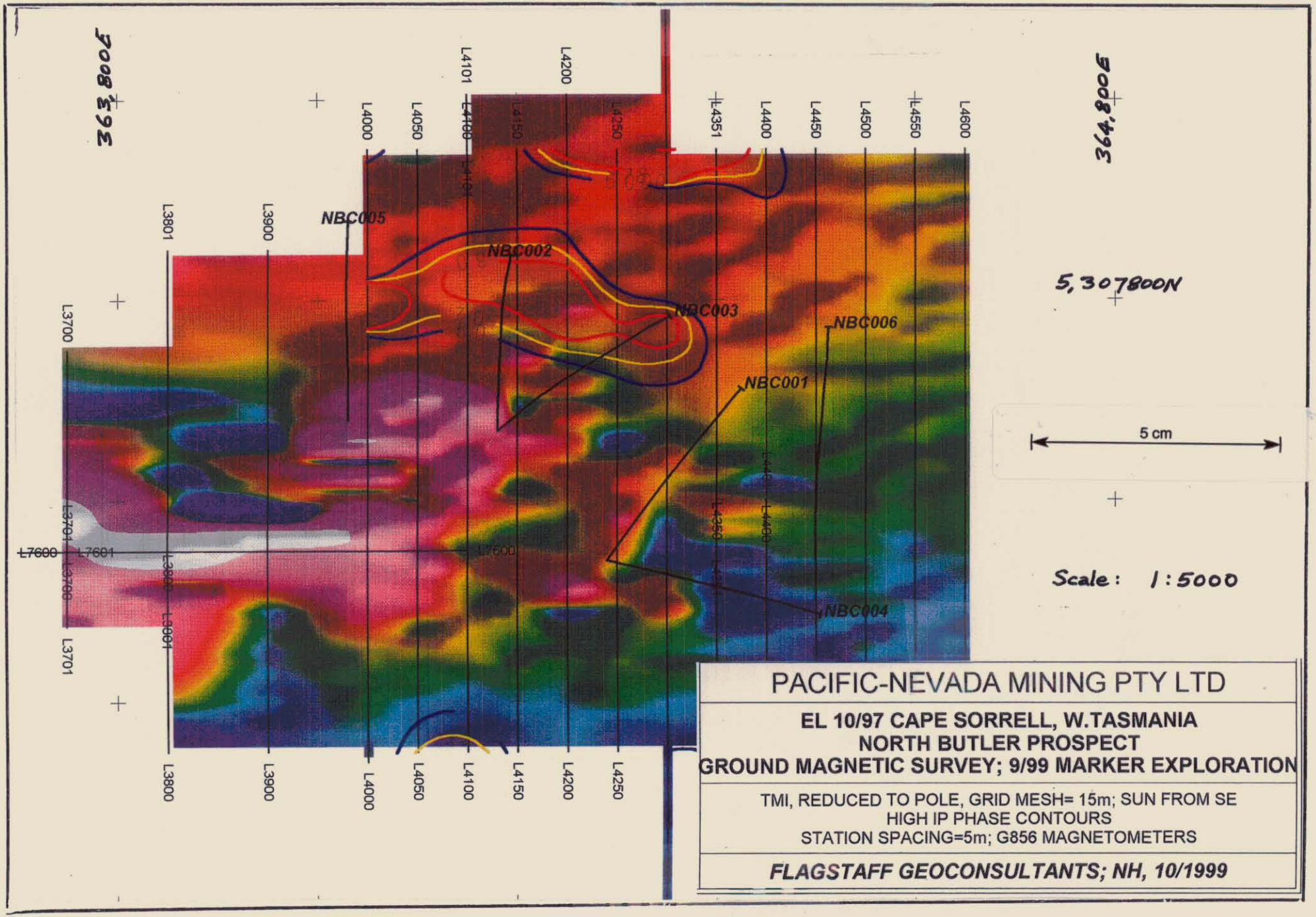
EL 10/97 - CAPE SORELL

NORTH BUTLER CREEK

OUTCROP GEOLOGY (TURNER) WITH DRILL HOLE GEOLOGY PROJECTD TO SURFACE (NEWNHAM)

SCALE : 1:5000 — 50 0 100 m

Figure No. 4.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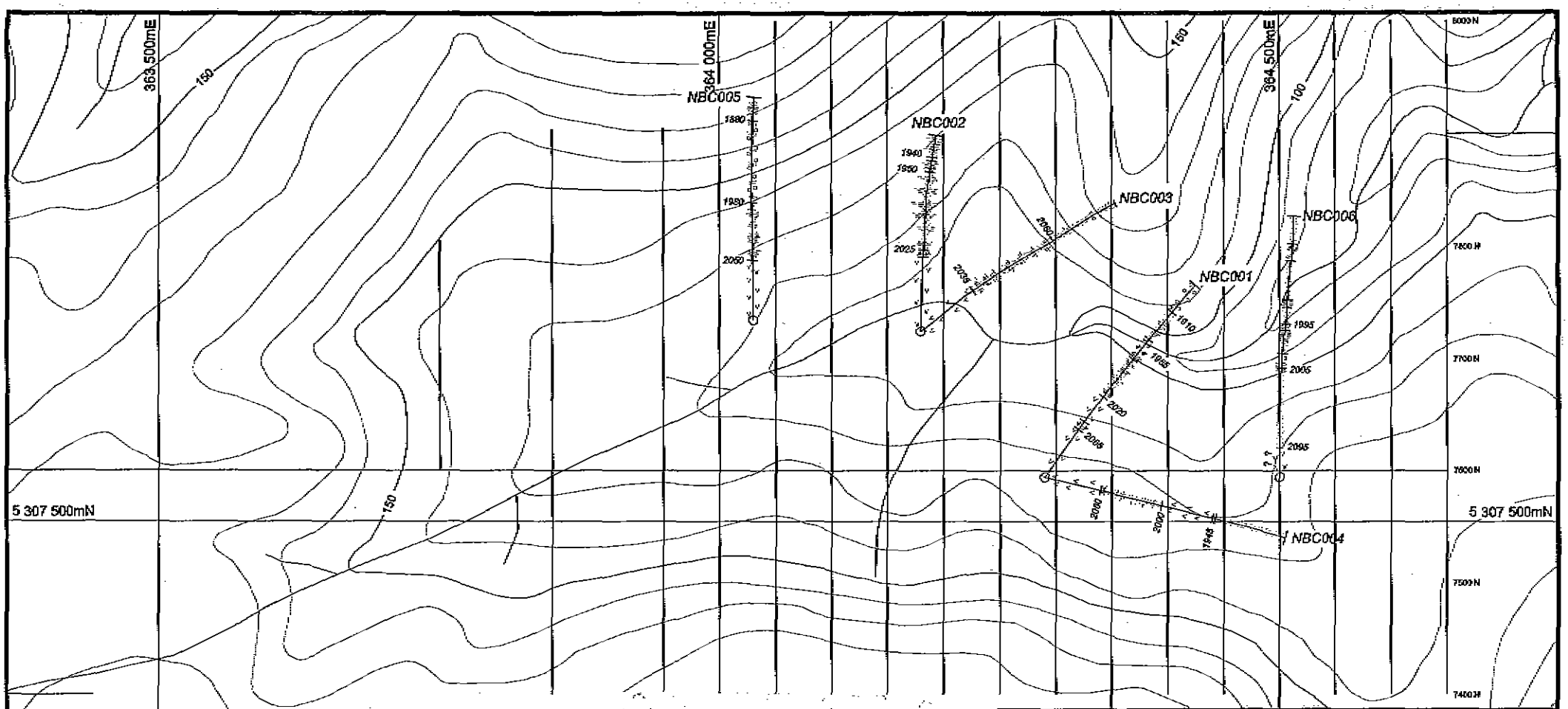
L3701
L3800
L7600
L7601
NBC005
NBC002
NBC003
NBC006
NBC001
NBC004
5 cm
Scale: 1:5000
PACIFIC-NEVADA MINING PTY LTD
EL 10/97 CAPE SORRELL, W.TASMANIA
NORTH BUTLER PROSPECT
GROUND MAGNETIC SURVEY; 9/99 MARKER EXPLORATION
TMI, REDUCED TO POLE, GRID MESH= 15m; SUN FROM SE
HIGH IP PHASE CONTOURS
STATION SPACING=5m; G856 MAGNETOMETERS
FLAGSTAFF GEOCONSULTANTS; NH, 10/1999

Fig. 5



KEY

- Cored drill hole completed 1999-2000 summer.
- Mafic volcanics (dolerite, gabbro, breccias).
- Black shales, typically graphitic and pyritic.
- Siltstone-sandstone generally calcareous ± pyrite.
- Coarse debris flow, usually pyritic.
- ? Fault Zones ?

PACIFIC-NEVADA MINING PTY. LTD

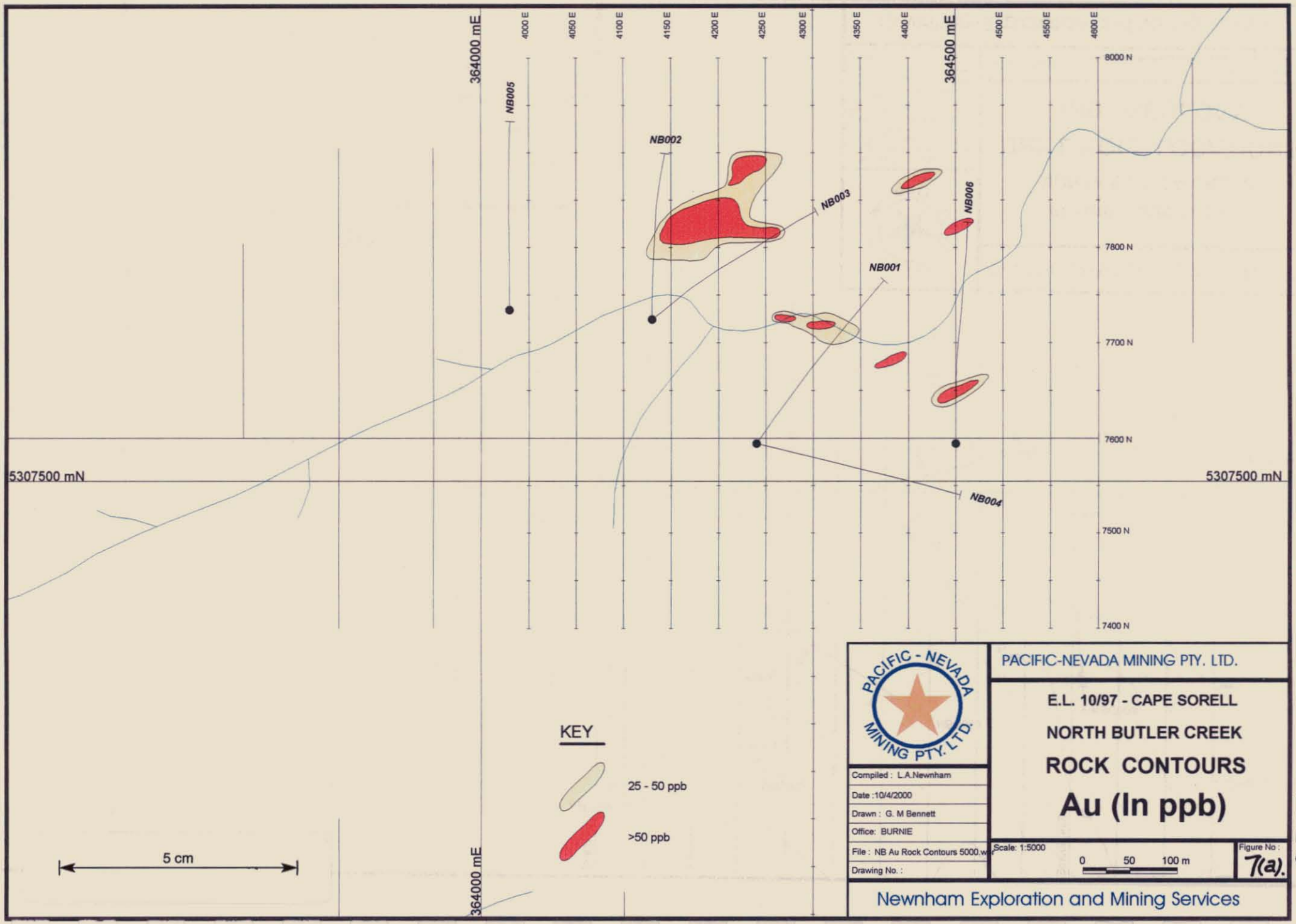
EL 10/97 - CAPE SORELL

NORTH BUTLER CREEK

DRILL HOLE LOCATIONS AND GEOLOGY

COMPILED : L.A.N.	
DATE : 07/04/00	
DRAWN : G. M. Bennett	
OFFICE :	
FILE : NB DDH Location 5000	
DWG No. :	SCALE : 1:5000 (0 50 150 m) Figure No. 6.

Newnham Exploration and Mining Services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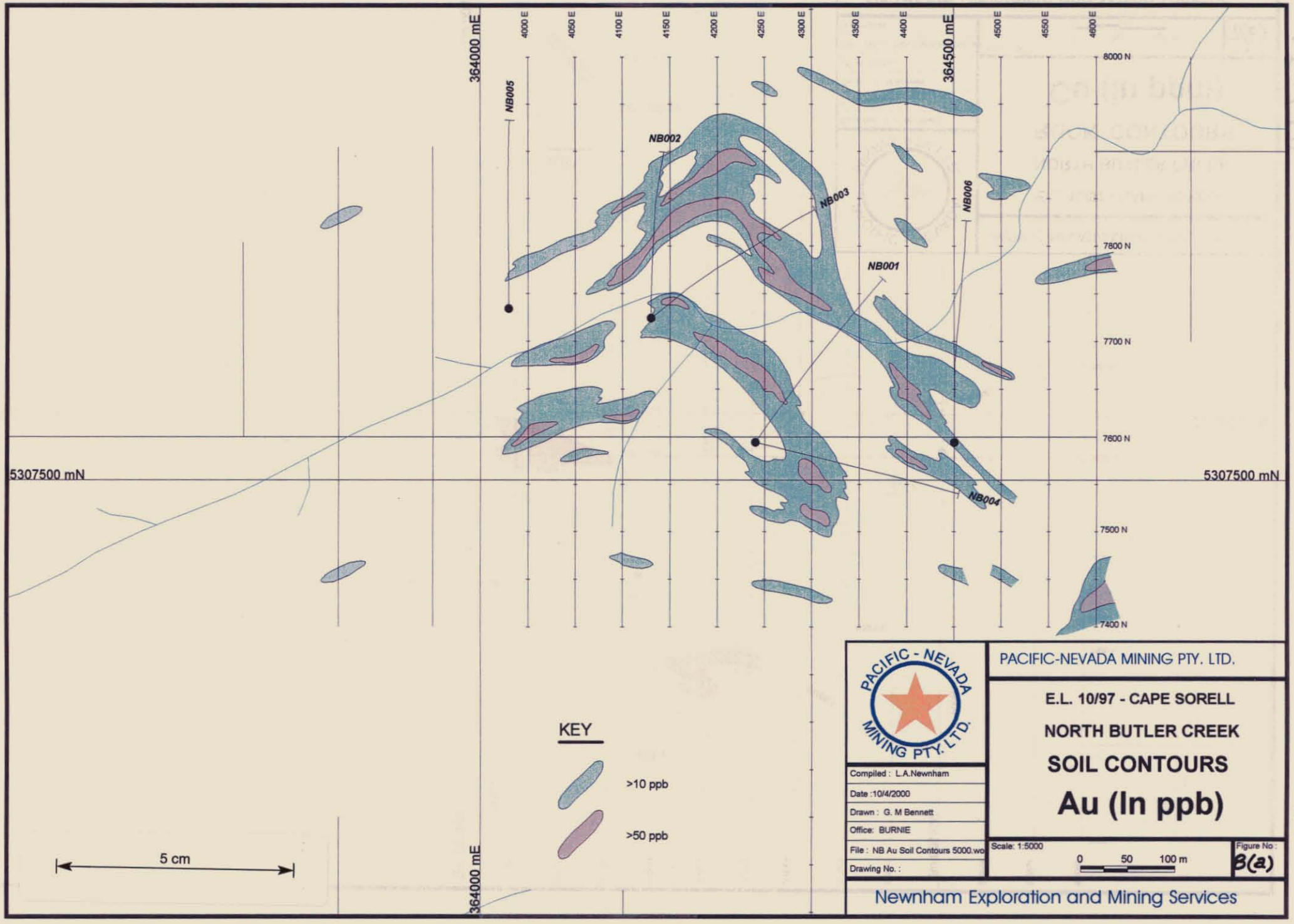
4600 E
8000 N
7800 N
7700 N
7600 N
7500 N
7400 N
5307500 mN
NB005
NB002
NB003
NB001
NB006
NB004
KEY
25 - 50 ppb
>50 ppb
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
ROCK CONTOURS
Au (ln ppb)
Compiled : L.A.Newnham
Date :10/4/2000
Drawn : G. M Bennett
Office: BURNIE
File : NB Au Rock Contours 5000.wor
Drawing No. :
Scale: 1:5000
0 50 100 m
Figure No : 7(a).
Newnham Exploration and Mining Services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7400 N
NB005
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NB001
NB006
NB004
5307500 mN
5307500 mN
364000 mE
KEY
>10 ppb
>50 ppb
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
SOIL CONTOURS
Au (ln ppb)
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Date :10/4/2000
Drawn : G. M Bennett
Office: BURNIE
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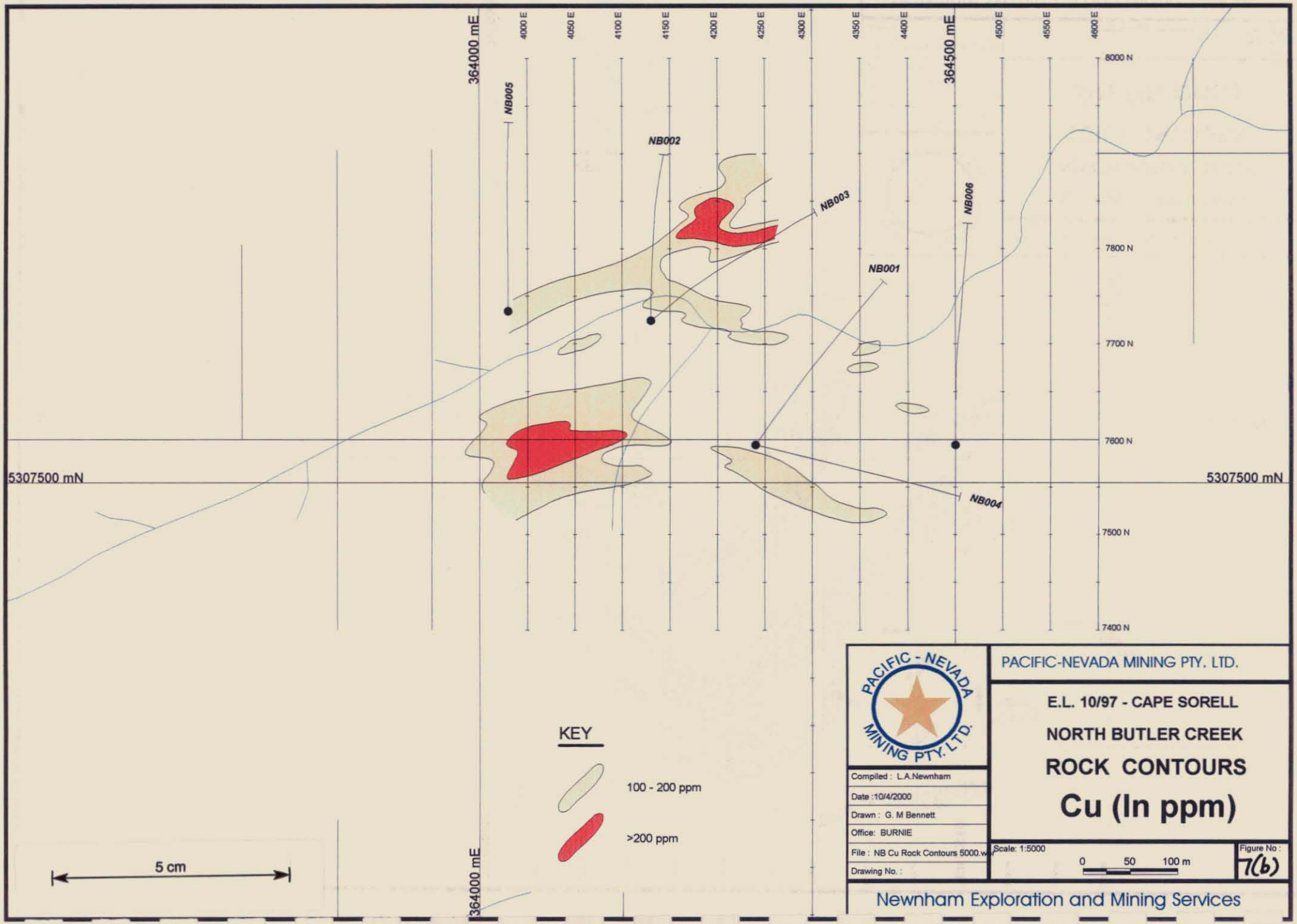
Newnham Exploration and Mining Services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4550 E
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7600 N
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7400 N
5307500 mN
NB005
NB002
NB003
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KEY
100 - 200 ppm
>200 ppm
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
ROCK CONTOURS
Cu (In ppm)
Compiled : L.A.Newnham
Date :10/4/2000
Drawn : G. M Bennett
Office: BURNIE
File : NB Cu Rock Contours 5000.wor
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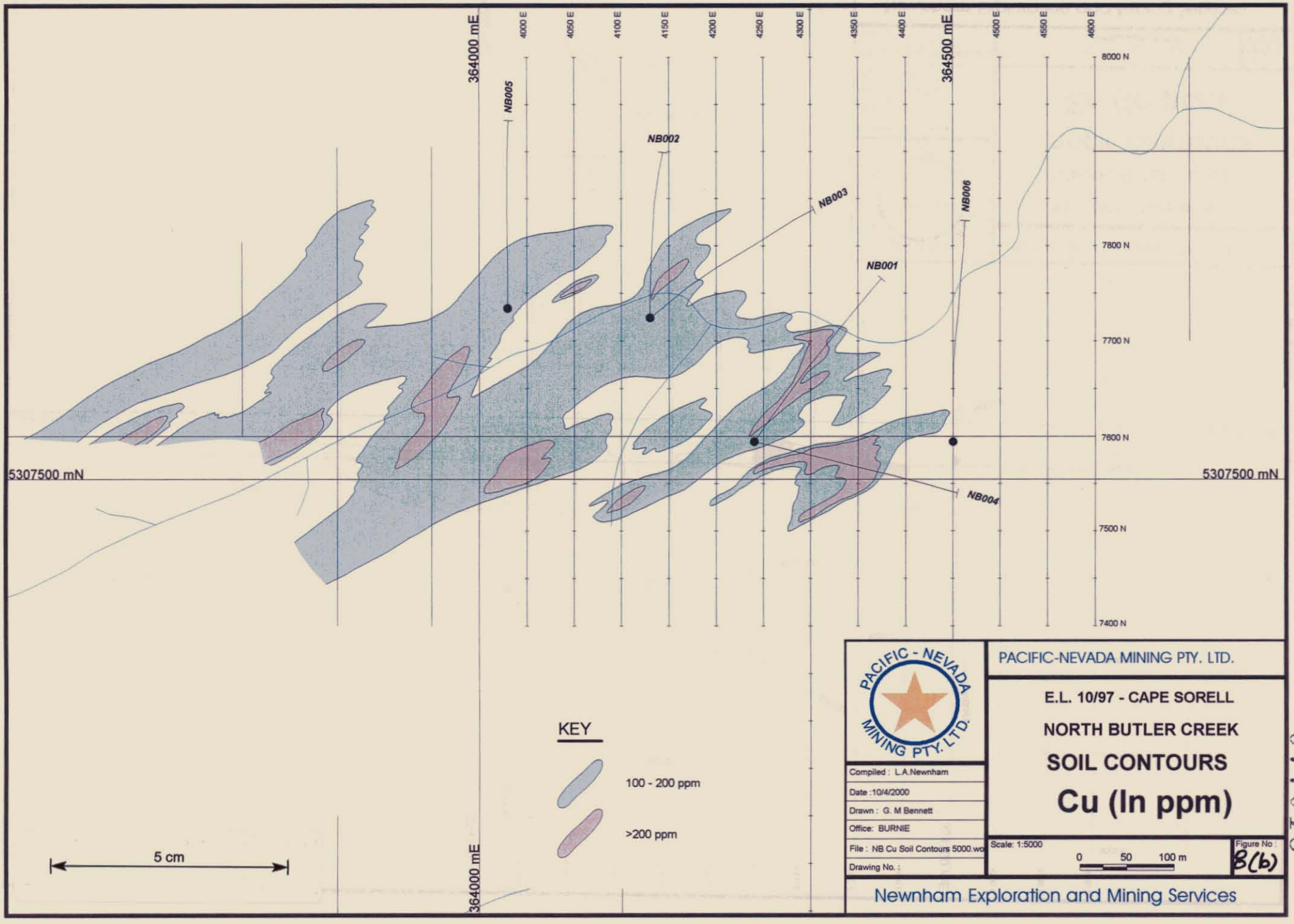
Newnham Exploration and Mining Services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5307500 mN
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KEY
100 - 200 ppm
>200 ppm
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
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E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
SOIL CONTOURS
Cu (ln ppm)
Compiled : L.A.Newnham
Date :10/4/2000
Drawn : G. M Bennett
Office: BURNIE
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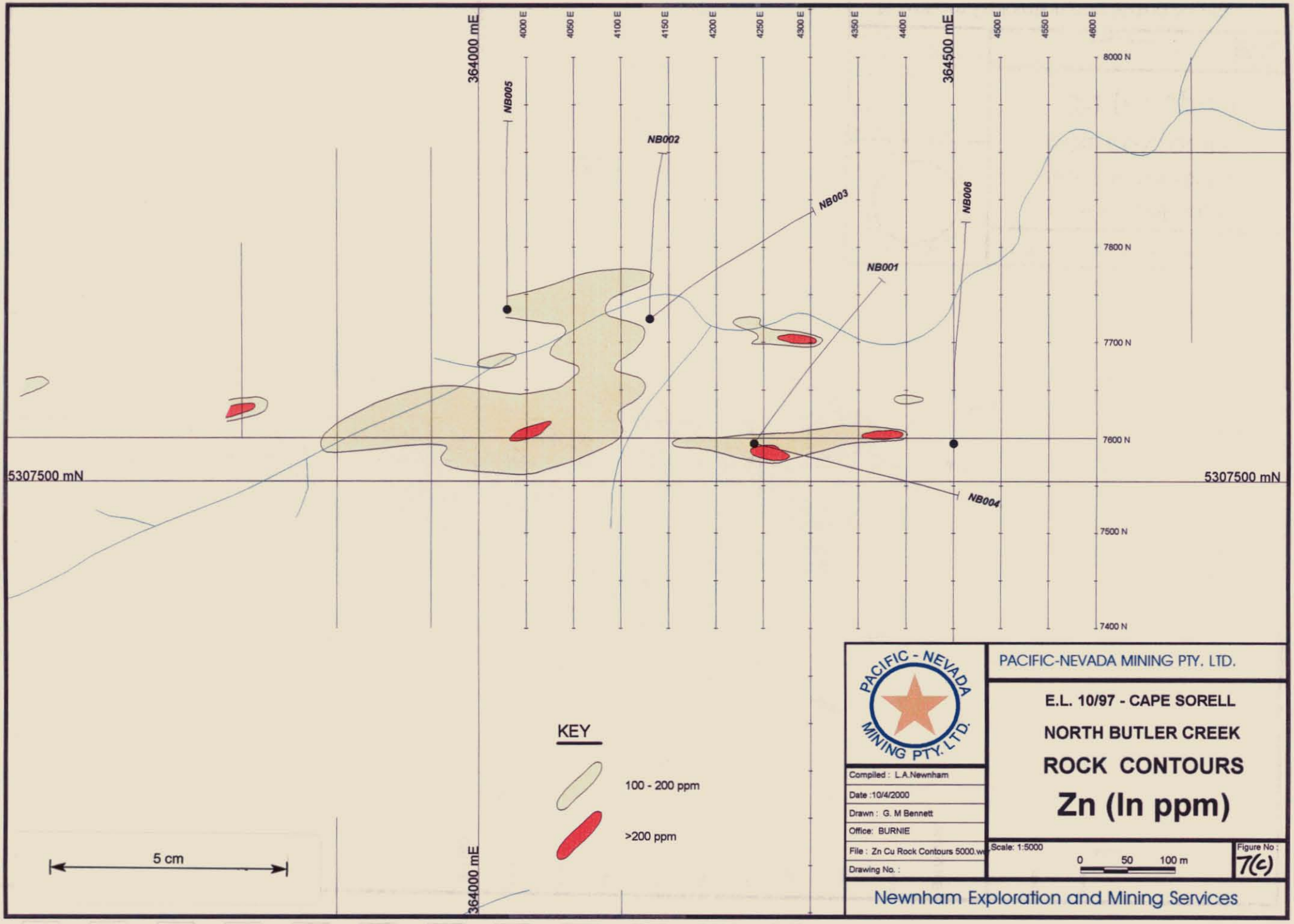
Newnham Exploration and Mining Services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NB004
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KEY
100 - 200 ppm
>200 ppm
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
ROCK CONTOURS
Zn (In ppm)
Compiled : L.A.Newnham
Date :10/4/2000
Drawn : G. M Bennett
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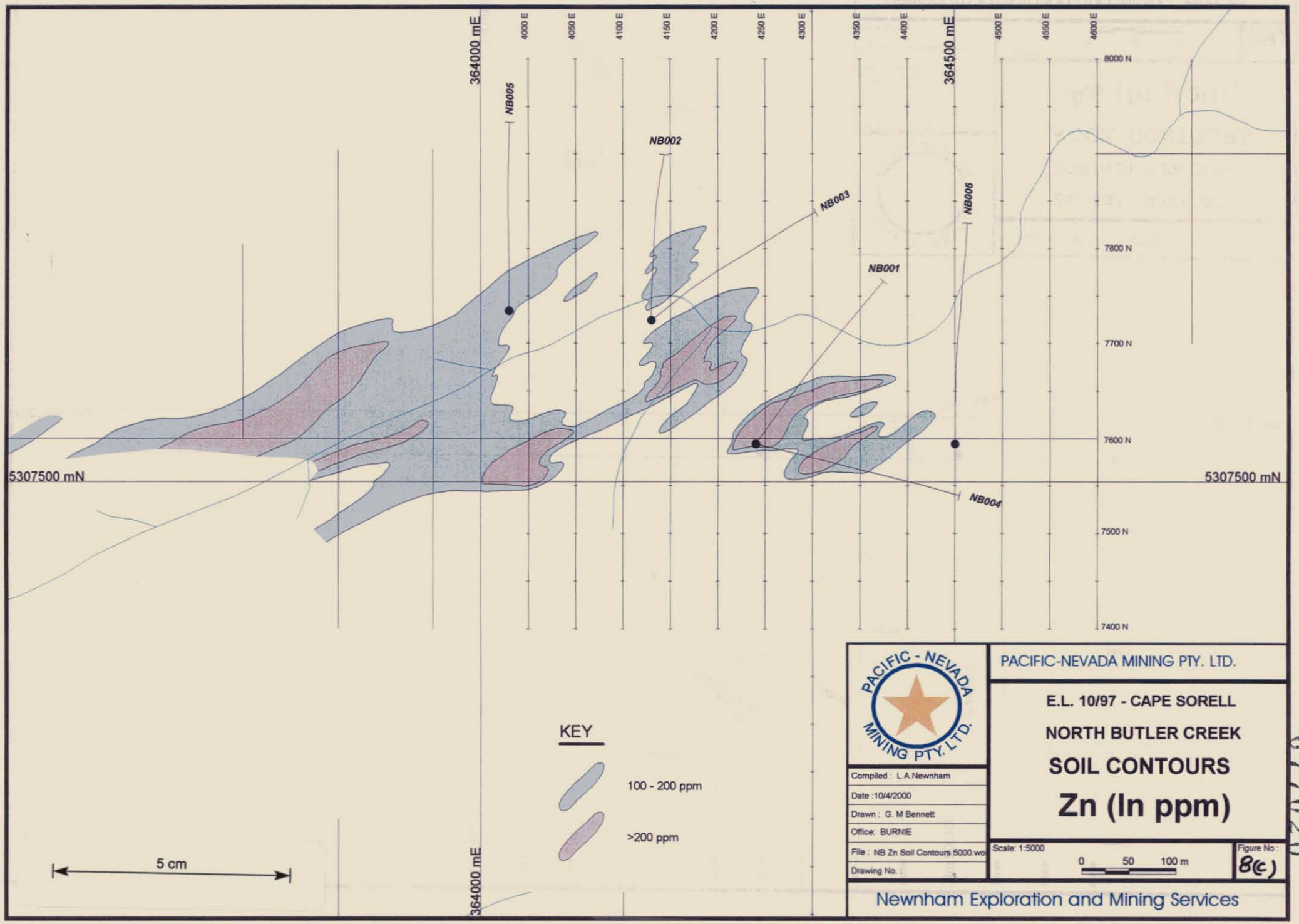
Newnham Exploration and Mining Services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NB005
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NB003
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NB004
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KEY
100 - 200 ppm
>200 ppm
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
SOIL CONTOURS
Zn (ln ppm)
Compiled : L.A.Newnham
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Drawn : G. M Bennett
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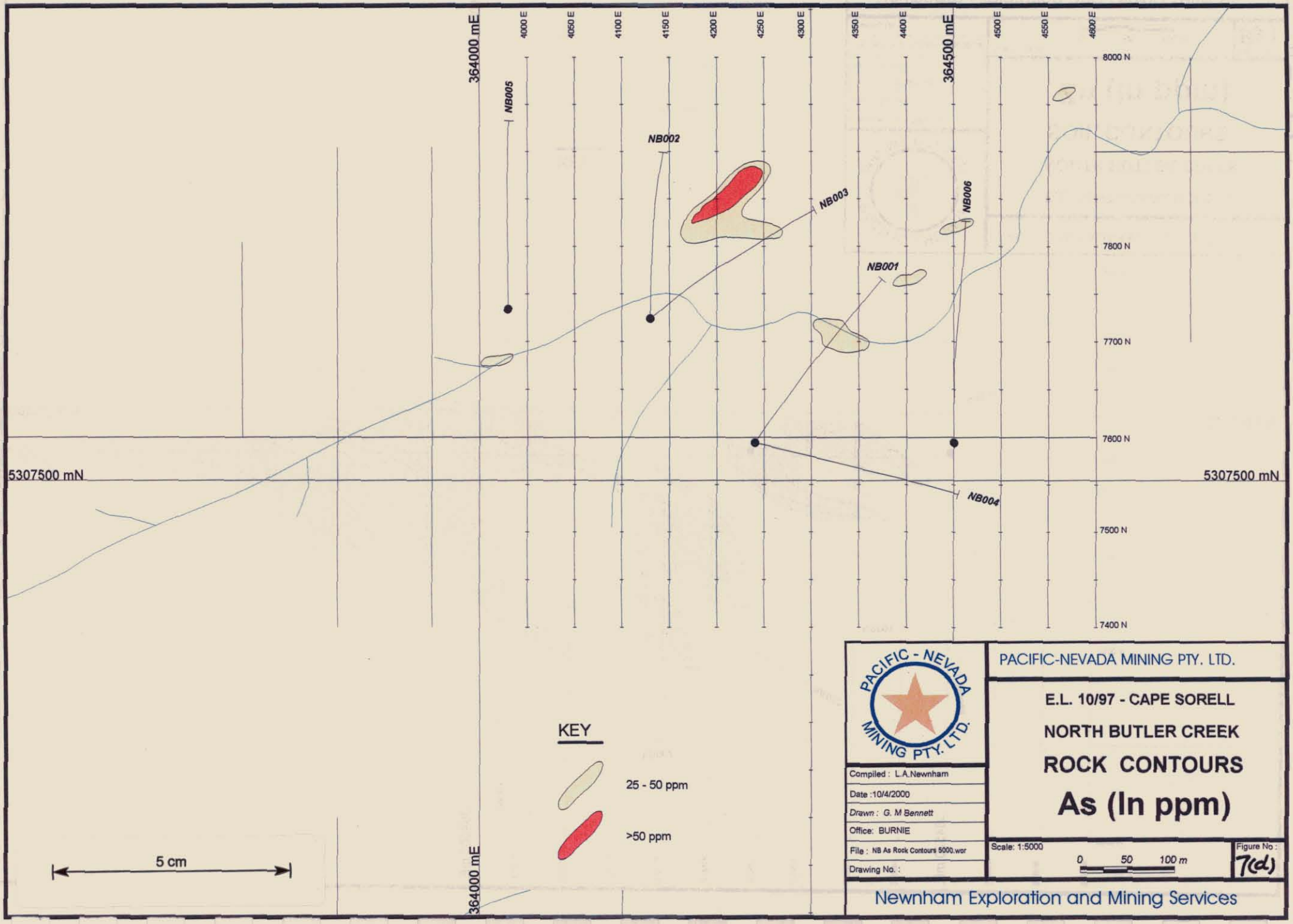
Newnham Exploration and Mining Services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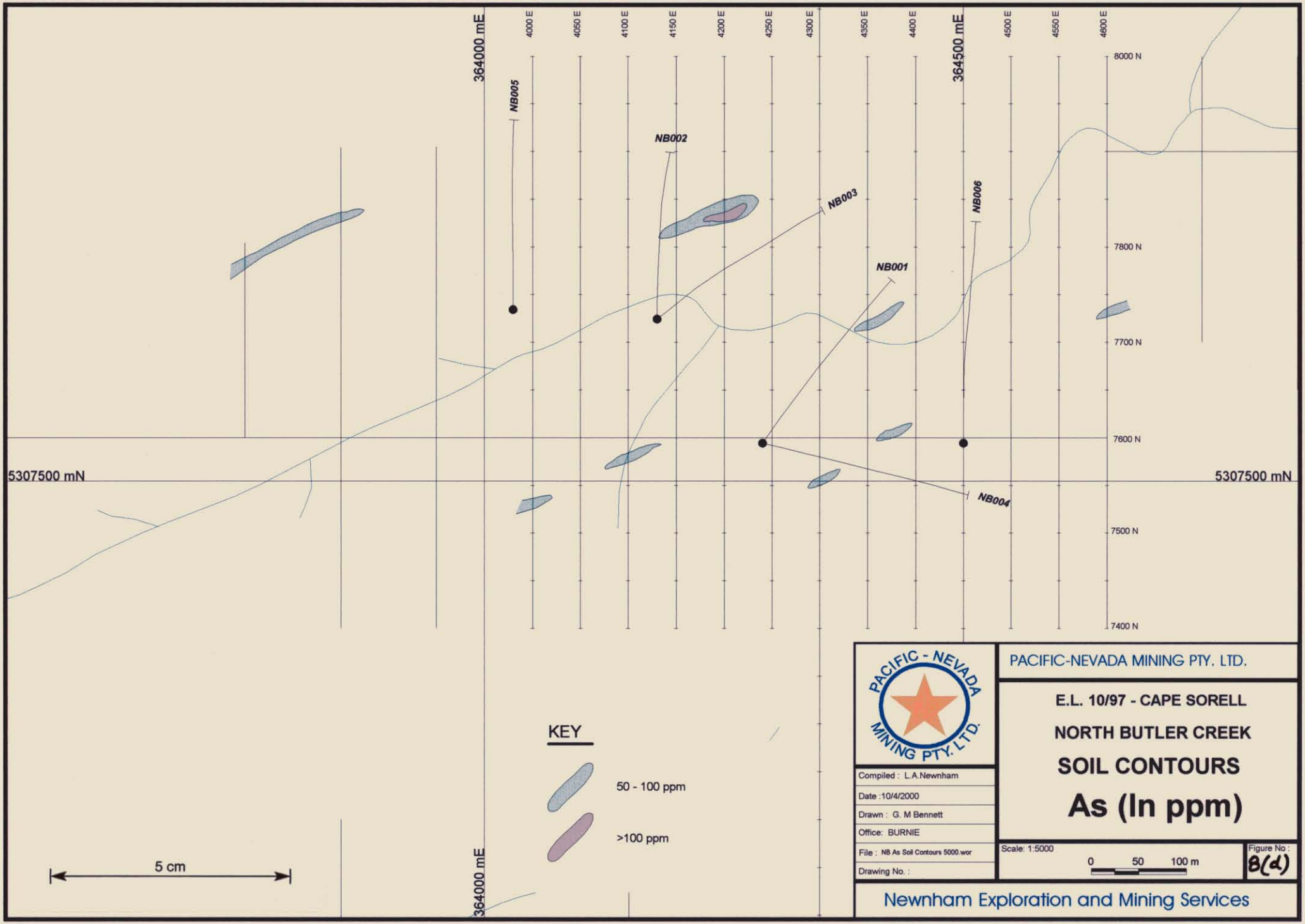
7800 N
7700 N
7600 N
7500 N
7400 N
5307500 mN
NB005
NB002
NB003
NB006
NB001
NB004
KEY
25 - 50 ppm
>50 ppm
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
ROCK CONTOURS
As (In ppm)
Compiled : L.A.Newnham
Date :10/4/2000
Drawn : G. M Bennett
Office: BURNIE
File : NB As Rock Contours 5000.wor
Drawing No. :
Scale: 1:5000
0 50 100 m
Figure No : 7(d)
Newnham Exploration and Mining Services

67702


364000 mE
4000 E
4050 E
4100 E
4150 E
4200 E
4250 E
4300 E
364500 mE
4350 E
4400 E
4500 E
4550 E
4600 E
8000 N
7800 N
7700 N
7600 N
7500 N
7400 N
NB005
NB002
NB003
NB001
NB006
NB004
5307500 mN
5307500 mN
364000 mE
KEY
50 - 100 ppm
>100 ppm
5 cm
PACIFIC - NEVADA MINING PTY. LTD.
PACIFIC-NEVADA MINING PTY. LTD.
E.L. 10/97 - CAPE SORELL
NORTH BUTLER CREEK
SOIL CONTOURS
As (ln ppm)
Compiled : L.A.Newnham
Date :10/4/2000
Drawn : G. M Bennett
Office: BURNIE
File : NB As Soil Contours 5000.wor
Drawing No. :
Scale: 1:5000
0 50 100 m
Figure No : B(d)
Newnham Exploration and Mining Services

3.6.2 Drill Hole Descriptions:

DDH NB 001:

The hole was designed to test a Au-Cu soil and lesser rock-chip geochemical anomaly associated with the south-east extension of the basal mudstone unit. Only a weak IP trend was inferred extending into this area.

It intersected a sequence of mafic volcanics and gabbroic rocks overlying interbedded black shales, calcareous siltstones and sandstones which, in turn, overlay a soft calcareous and pyritic debris flow unit.

Two substantial fault zones were logged in this hole, one in the volcanics and one in the sedimentary unit. It is possible that this deeper 'fault' zone is, in fact, not a fault but rather a severely degraded section of black shales. Experience elsewhere in Tasmania in black shale environments suggests that, when they are subjected to severe acid ground water leaching, they totally decompose and disaggregate into wide pug-rubble zones which can be mistaken for faults.

Silica-carbonate-pyrite alteration, particularly in the sedimentary units, was pervasive. Carbonate is present as both a matrix component in the clastic sediment and debris flow units, and as common thin carbonate and quartz-carbonate vein networks.

The hole intersected two strongly pyritic zones.

The first of these was in the upper part of the sedimentary sequence where interbedded black shales and silicified siltstones between 159.0-176.0 m averaged approximately 10% pyrite as semi-massive bedding parallel seams and fine disseminations, and coarser grains and aggregates associated with carbonate and quartz-carbonate veins.

The interval 164.0-168.0 m averaged 35% pyrite and contained 0.13 g/t Au.

The second pyritic zone occurred in the fault(?) zone between 215.0-238.0 m which averaged 15-20% pyrite. Core recoveries were poor through this interval and the pyrite commonly was present as large remnant blocks and veins. Gold values were <50 ppb.

In general, pyrite was pervasive throughout the sedimentary and debris flow units, both as disseminated grains in the rock or closely associated with late stage quartz-carbonate veining events. Apart from the minor gold interval mentioned above, gold and base metal values were very low throughout.

The surface geochemical responses above NB 001 could be explained by exposure and weathering of the two pyritic intervals in the shale-siltstone sequence.

The absence of a strong IP response in this area may be explained by deep leaching and removal of pyrite during weathering.

DDH NB 002:

This hole was drilled to test a strong co-incident IP, soil and rock geochemical anomaly associated with the mapped basal mudstone unit.

It intersected a sequence of mafic volcanics overlying a sequence of black shales and minor siltstones. The top of the sedimentary section was marked by a broken and degraded unit logged as a fault. This zone could alternatively be interpreted as a severely degraded and weathered shale unit.

Silica-carbonate-pyrite alteration of the sedimentary section is strong, with pervasive pyrite and common quartz-carbonate-pyrite veining.

The sedimentary section was generally pyritic (5-10% pyrite). The black carbonaceous shale interval from 151.1-187.3 m averaged 10-15% pyrite as disseminated grains, contorted bedding parallel seams and aggregates and veinlets associated with late stage carbonate veining. Gold values were <0.1 g/t.

The shales from 210.0-221.0 m averaged approximately 30% pyrite but the maximum gold value was only 1 m of 0.13 g/t. Base metal values were very low throughout.

The strong surface IP and geochemical responses were undoubtedly due to the thick sequence of pyritic and weakly Au anomalous black graphitic shale-siltstone sequence.

DDH NB 003:

This hole was drilled between holes NB 001 and NB 002 to further test the co-incident strong IP-geochemical anomaly associated with the mapped basal mudstone unit.

The results were very similar to DDH 002 - a basic volcanic sequence overlying silica-carbonate-pyrite altered black carbonaceous shales, siltstone and sandstones.

The shales were strongly pyritic from 166.0-185.0 m, averaging overall 10-15%. The interval 166.0-172.0 m contained massive banded pyrite

and averaged approximately 25% pyrite and 0.14 g/t Au, with 1 m of 0.24 g/t Au, 30% pyrite. No other base metal or gold mineralisation of significance was recorded.

The IP and surface geochemical responses can again be attributed to the gold anomalous pyritic and carbonaceous black shale-siltstone formations.

DDH NB 004:

This hole was drilled to test a Cu-Au soil anomaly possibly associated with structural trends identified by surface mapping and the ground magnetic survey. No IP responses were recorded in this area.

It intersected a thick sequence of basic volcanics and volcaniclastic sediments overlying a siltstone-sandstone sequence, overprinted by strong silica-carbonate-pyrite alteration.

Recorded facings (dubious in places) suggest the hole may have drilled through a tight synclinal(?) fold in the volcanics.

A feature of the sediments in this hole was the intense silica-carbonate alteration, particularly in the form of abundant thin quartz and quartz-carbonate veins.

The sediments typically carried approximately 5% pyrite, locally to 10%, but gold values were <0.05 g/t, apart from 212.0-213.0 m, which assayed 0.24 g/t Au in a very low (<1%) pyrite interval. Base metal values were low throughout.

DDH NB 005:

This hole was drilled to test the IP anomaly west of NB 002.

It intersected a sequence of basic volcanics and gabbros overlying a black shale sequence which, in turn, overlay an interbedded sequence of quartzite and thick debris flows.

The black shale unit was thinner and not as pyritic (3-5%) as in NB 002 to the east. Gold values were <0.05 g/t.

The underlying quartzite-debris flow unit was slightly more pyritic (5-7% pyrite) with the pyrite being disseminated throughout the quartzite as fine-medium euhedral grains and throughout the calcareous debris flow groundmass. Base metal and gold values were low throughout.

Alteration in general was not as intense in this hole as in those to the

east. The IP response can be assigned to the moderately pyritic carbonaceous (graphitic) shale unit.

DDH NB 006:

This hole was drilled to the east of the other five holes and was designed to test a large, intense zone of quartz-pyrite-sericite alteration defined by surface mapping. There were no significant geochemical or geophysical anomalies in this area.

It intersected a thin unit of severely weathered volcanics underlain by a sequence of strongly altered interbedded siltstone-sandstone-minor black shales and debris flow units. An apparent repetition of beds combined with some dubious facing data suggests the sediments may be tightly folded.

Alteration of the sediments is significant in the form of silica and carbonate flooding of coarser clastic sediments and abundant quartz and quartz-carbonate veining. Sericite is widespread and typically associated with fissile fine grained 'phyllitic' sediments.

Pyrite is pervasive, at 2-5% levels but locally to 10%. It is typically disseminated throughout the sediments and associated with the veining events.

A fault zone at 313.8-333.0 m and the disrupted quartzites immediately above the fault average 10-15% S. Some 0.10-0.15 g/t Au values are associated with this interval.

Elsewhere, gold values are <0.1 g/t and base metal values are very low.

The general absence of base metals and only minor gold values adequately account for the lack of surface geochemical anomalism. However, the amount of disseminated pyrite throughout the hole should have produced a substantial IP response, but none was recorded (see discussion below).

3.6.3 Discussion of Results:

The drilling results are interpreted as follows:

A sequence of mafic volcanics (diorites, gabbros, basaltic breccias) overlies a sequence of black graphitic shales and siltstones which grades down into a sequence of siltstones, sandstones (quartzites) and debris flow units.

The carbonaceous shale unit is somewhat lenticular in the area

drilled, thinning to the west through NB 005 and thinning and bifurcating to the east through NB 006.

The above formations generally strike E-W, but may have been tightly folded around an ENE trending synclinal axis. Some major faulting was tentatively recognised in the drill holes, but this could also legitimately be called severe weathering of carbonaceous sediments.

Quartz-carbonate-pyrite alteration is widespread but is most intense in the eastern drill holes, possibly associated with the tight folding/faulting in this area.

The volcanic units were poorly mineralised with only low levels of base metals, gold and pyrite.

The deeper quartzite and debris flow units were moderately pyritic (3-5% pyrite) but were very low in gold and base metals.

The black shale-siltstone sequence was strongly pyritic. Some semi-massive/massive pyrite sections in NB 001, NB 002 and NB 003 carried elevated Au in the 0.1-0.2 g/t range. These zones are shown on the lithological profiles presented as Fig 10. This presentation highlights the close relationship between Au and S.

However, correlation of the main pyritic gold anomalous zones in these three holes has not been adequately demonstrated.

Three features of the drilling program are worth special discussion:

(a) the lack of IP response above units carrying 5-10% disseminated sulfide

(b) high Au values in surface rocks not repeated in drill holes

(c) the generally broken, semi-decomposed nature of the rocks

(a) IP Response:

In several cases drill holes intersected broad units of pyritic rocks carrying 5-10% disseminated pyrite. On the basis of bedding orientations, these units should have extended to surface and should have produced strong IP responses; eg, NB 001, NB 004 and NB 006. However, IP responses in these areas were low. This suggests removal of pyrite from the rocks closer to surface.

(b) Geochemical Data:

Surface sampling above the black shale (basal mudstone) unit in the vicinity of NB 002 and NB 003 returned higher Au values than in drill cores, sometimes >1 g/t Au. One possible explanation for this might be near surface enrichment of gold, especially in pyritic-carbonaceous shale environments.

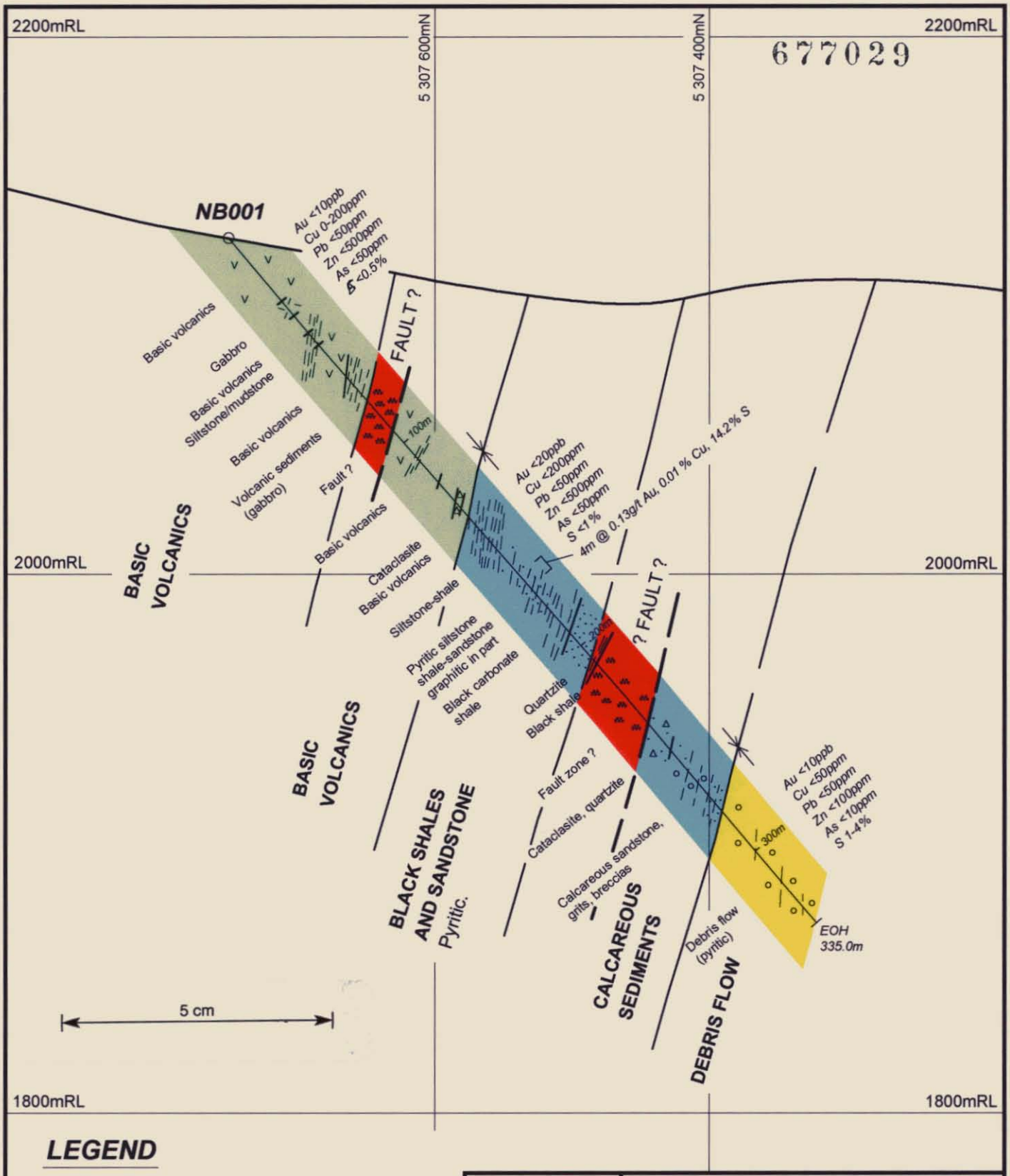
(c) Decomposed Rocks:

The ground conditions in the North Butler drill holes were poor. Most units were very broken, decomposed and often leached.

This is now becoming a common feature of all drilling programs on the Cape Sorell Peninsula.

Near surface processes, such as those described in (a) and (b) above, are unusual in western Tasmanian exploration. One possible explanation is that the Cape Sorell Peninsula, and the North Butler area in particular, is relatively low lying and would have been submersed under shallow sea water during the last interglacial period.

A shallow, perhaps even tidal, seawater environment may have leached the underlying rocks, removing pyrite, leaching carbonate and maybe providing a highly brackish environment over the graphitic shales to enrich gold in rocks in these areas.



LEGEND

- Mafic volcanics with sedimentary interbeds.
- Black graphitic shales with sandy beds; very pyritic.
- Calcareous debris flow with sandy beds; pyritic.
- Siltstone - sandstone; often calcareous silicified and pyritic.

PACIFIC - NEVADA MINING PTY. LTD.

COMPILED :	L.A.N.
DATE :	06/04/00
DRAWN :	G. M. Bennett
OFFICE :	
FILE :	NB001 2000
DWG No. :	

PACIFIC-NEVADA MINING PTY. LTD

EL 10/97 - CAPE SORELL

NORTH BUTLER CREEK DRILL SECTION

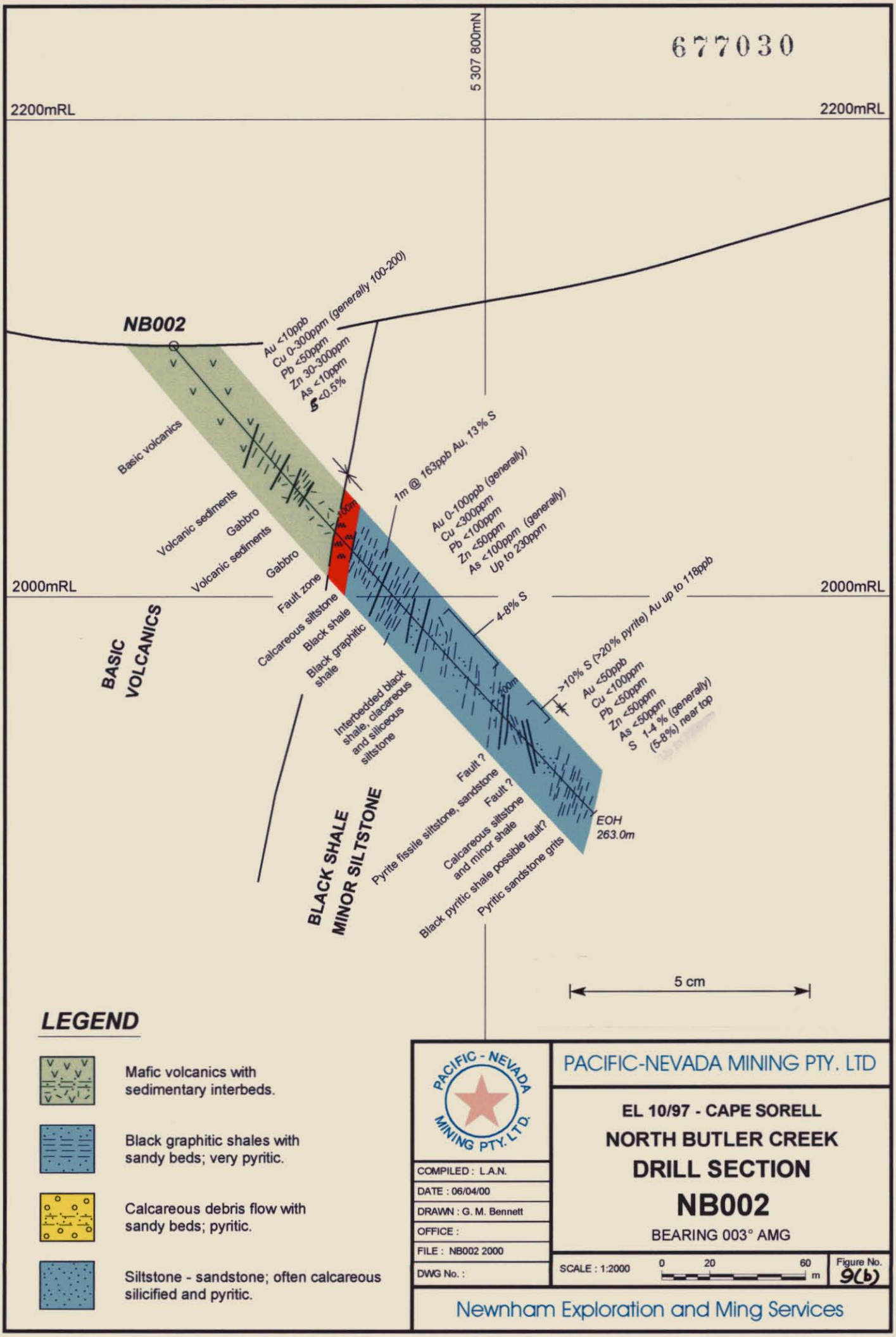
NB001

BEARING 038° AMG

SCALE : 1:2000 0 20 60 m

Figure No. 9 (a)

Newnham Exploration and Mining Services



LEGEND

- Mafic volcanics with sedimentary interbeds.
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EL 10/97 - CAPE SORELL

NORTH BUTLER CREEK

DRILL SECTION

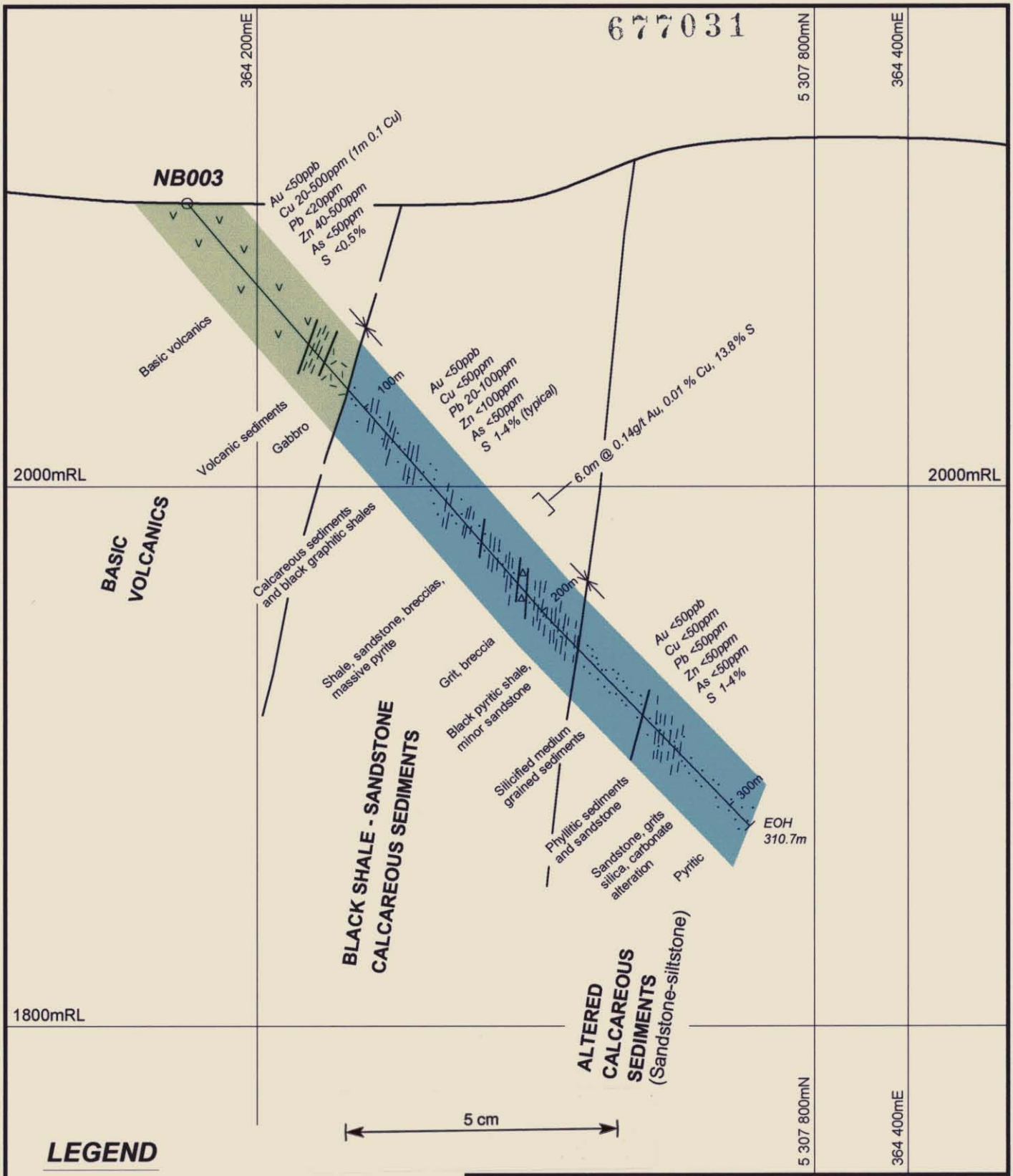
NB002

BEARING 003° AMG

COMPILED : L.A.N.	
DATE : 06/04/00	
DRAWN : G. M. Bennett	
OFFICE :	
FILE : NB002 2000	
DWG No. :	SCALE : 1:2000 0 20 60 m

Figure No. 9(b)

Newnham Exploration and Ming Services



LEGEND

- Mafic volcanics with sedimentary interbeds.
- Black graphitic shales with sandy beds; very pyritic.
- Calcareous debris flow with sandy beds; pyritic.
- Siltstone - sandstone; often calcareous silicified and pyritic.

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EL 10/97 - CAPE SORELL

NORTH BUTLER CREEK

DRILL SECTION

NB003

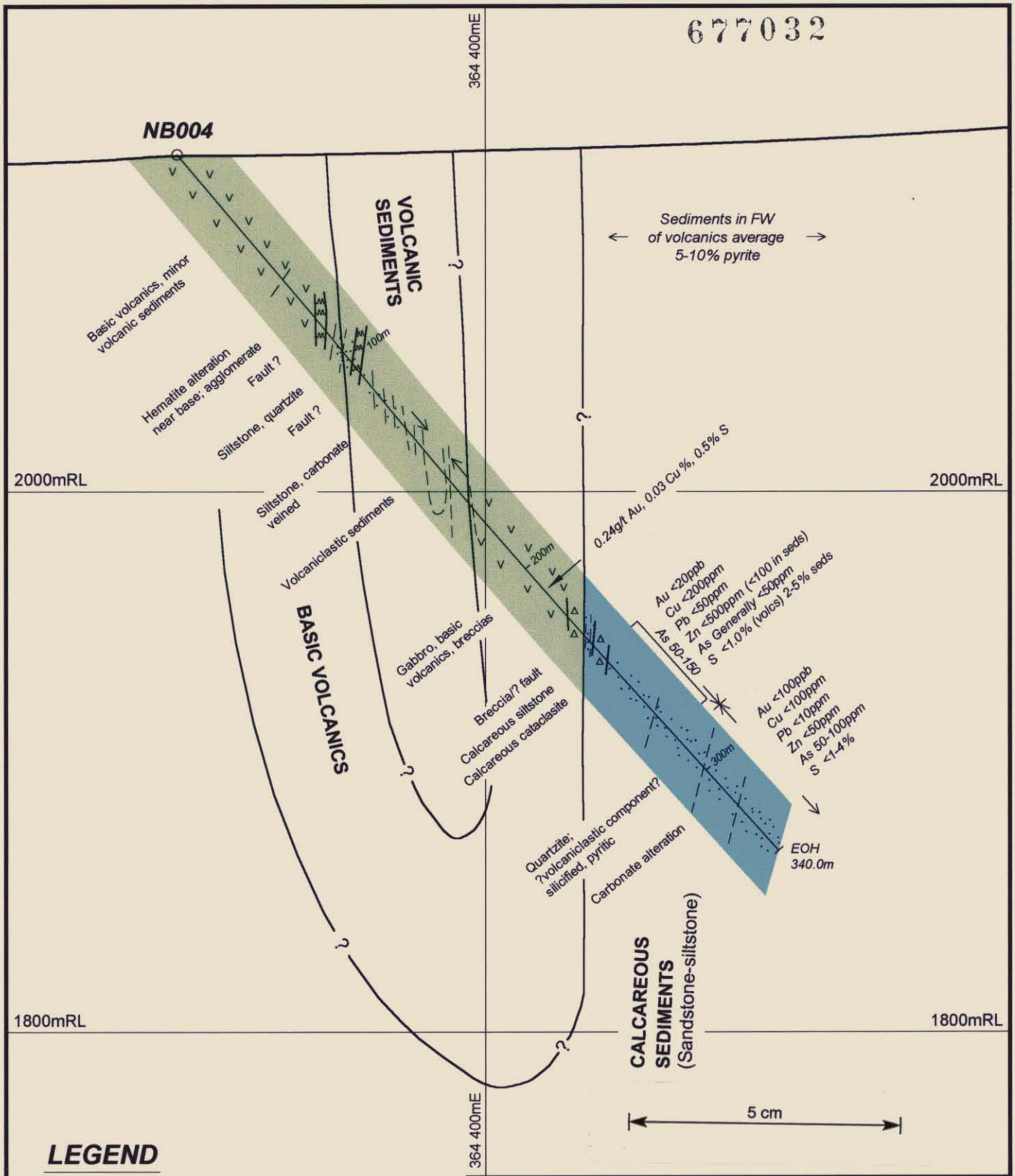
BEARING 56° AMG

COMPILED :	L.A.N.
DATE :	06/04/00
DRAWN :	G. M. Bennett
OFFICE :	
FILE :	NB003 2000
DWG No. :	

SCALE : 1:2000 — 0 20 60 m

Figure No. 9(c)

Newnham Exploration and Ming Services



LEGEND

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- Calcareous debris flow with sandy beds; pyritic.
- Siltstone - sandstone; often calcareous silicified and pyritic.

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NORTH BUTLER CREEK

DRILL SECTION

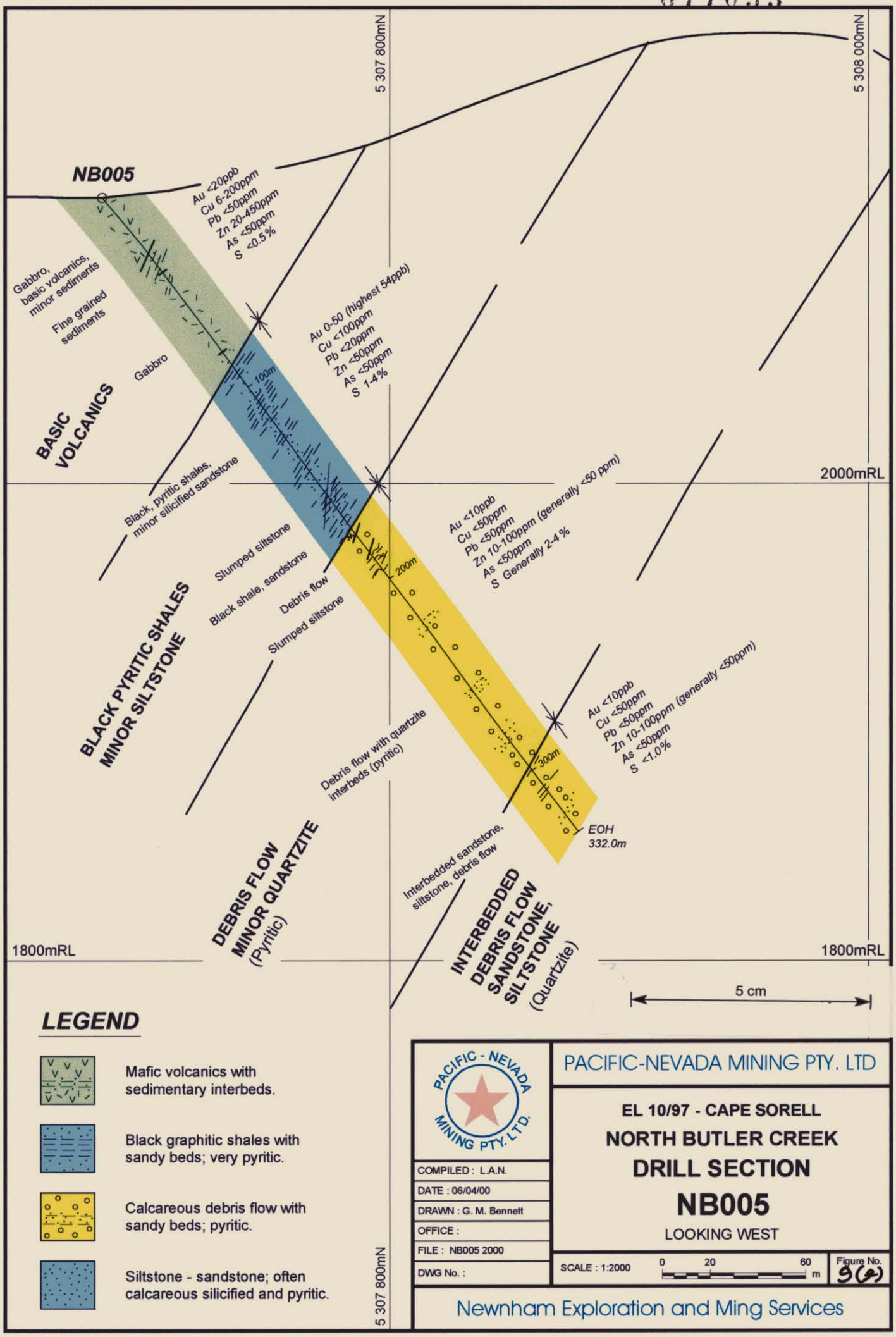
NB004

BEARING 104° AMG

COMPILED : L.A.N.	
DATE : 06/04/00	
DRAWN : G. M. Bennett	
OFFICE :	
FILE : NB004 2000	
DWG No. :	
SCALE : 1:2000	0 20 60 m
Figure No.	9(d)

Newnham Exploration and Ming Services

677033



LEGEND

- Mafic volcanics with sedimentary interbeds.
- Black graphitic shales with sandy beds; very pyritic.
- Calcareous debris flow with sandy beds; pyritic.
- Siltstone - sandstone; often calcareous silicified and pyritic.

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EL 10/97 - CAPE SORELL

NORTH BUTLER CREEK

DRILL SECTION

NB005

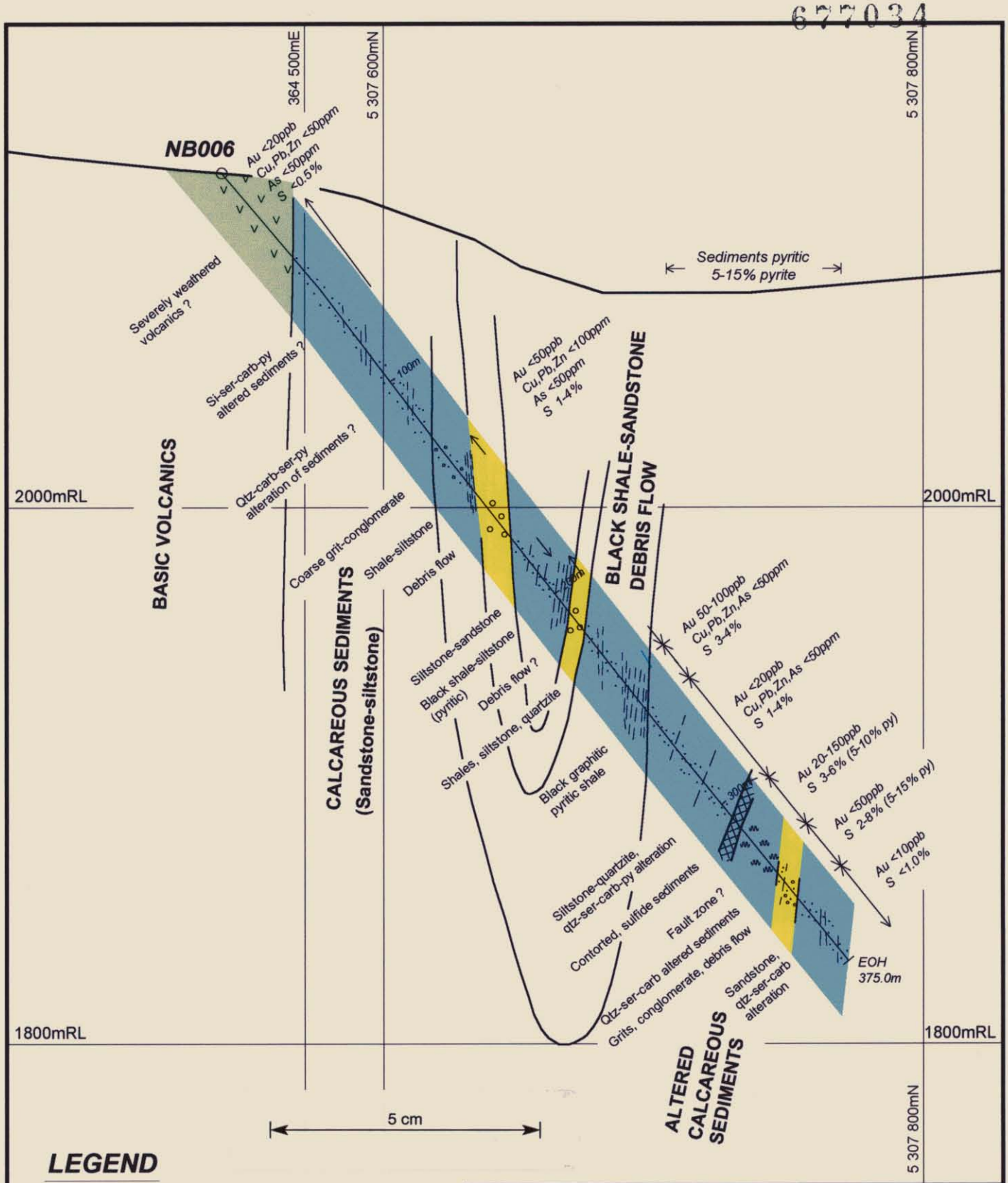
LOOKING WEST

COMPILED : L.A.N.	
DATE : 06/04/00	
DRAWN : G. M. Bennett	
OFFICE :	
FILE : NB005 2000	
DWG No. :	SCALE : 1:2000 0 20 60 m

Figure No. 9(a)

Newnham Exploration and Ming Services

677034



LEGEND

- Mafic volcanics with sedimentary interbeds.
- Black graphitic shales with sandy beds; very pyritic.
- Calcareous debris flow with sandy beds; pyritic.
- Siltstone - sandstone; often calcareous silicified and pyritic.

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PACIFIC-NEVADA MINING PTY. LTD

EL 10/97 - CAPE SORELL

NORTH BUTLER CREEK

DRILL SECTION

NB006

BEARING 104° AMG

COMPILED : L.A.N.	
DATE : 06/04/00	
DRAWN : G. M. Bennett	
OFFICE :	
FILE : NB006 2000	
DWG No. :	

SCALE : 1:2000 0 20 60 m

Figure No. 9(f)

Newnham Exploration and Ming Services

677035

NB005

SULPHUR 20% 10% 0 — GOLD 0 200 400ppm

NB002

SULPHUR 20% 10% 0 — GOLD 0 200 400 ppb

NB003

SULPHUR 20% 10% 0 — GOLD 0 200 400 ppb

NB001

SULPHUR 20% 10% 0 — GOLD 0 200 400 ppb

Fault ??

0
100m
200m
300m
400m

332.0m
263.0m
310.7m
335.0m

LEGEND

- Mafic volcanics with sedimentary interbeds.
- Black graphitic shales with sandy beds; very pyritic.
- Calcareous debris flow with sandy beds; pyritic.
- Siltstone - sandstone; often calcareous silicified and pyritic.
- Pyritic units (20 - 30% pyrite)

5 cm

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PACIFIC-NEVADA MINING PTY. LTD

EL 10/97 - CAPE SORELL
NORTH BUTLER CREEK
DRILL HOLE LITHOLOGICAL PROFILES GOLD AND SULPHIDE DISTRIBUTION

COMPILED : L.A.N.	
DATE : 10/04/00	
DRAWN : G.M.Bennett	
OFFICE :	
FILE : NB DDH Litho Profiles	
DWG No. :	SCALE : 1:2000 0 20 60 m

Figure No. 10.

Newnham Exploration and Mining Services

4. PROJECT REVIEW and RECOMMENDATIONS

The drilling program at North Butler has identified a major silica-carbonate-pyrite alteration zone in a folded(?) sequence of clastic sediments and volcanics adjacent to a major structural system cutting through the Cape Sorell Peninsula.

Pyrite is pervasive through this system but is particularly concentrated in a lenticular carbonaceous shale member. Low level gold (0.1-0.2 g/t) is associated with these intervals of semi-massive to massive pyrite.

Whilst some of the pyrite in the shales **may** be syngenetic, it is considered that most is probably epigenetic and related to the more widespread alteration event.

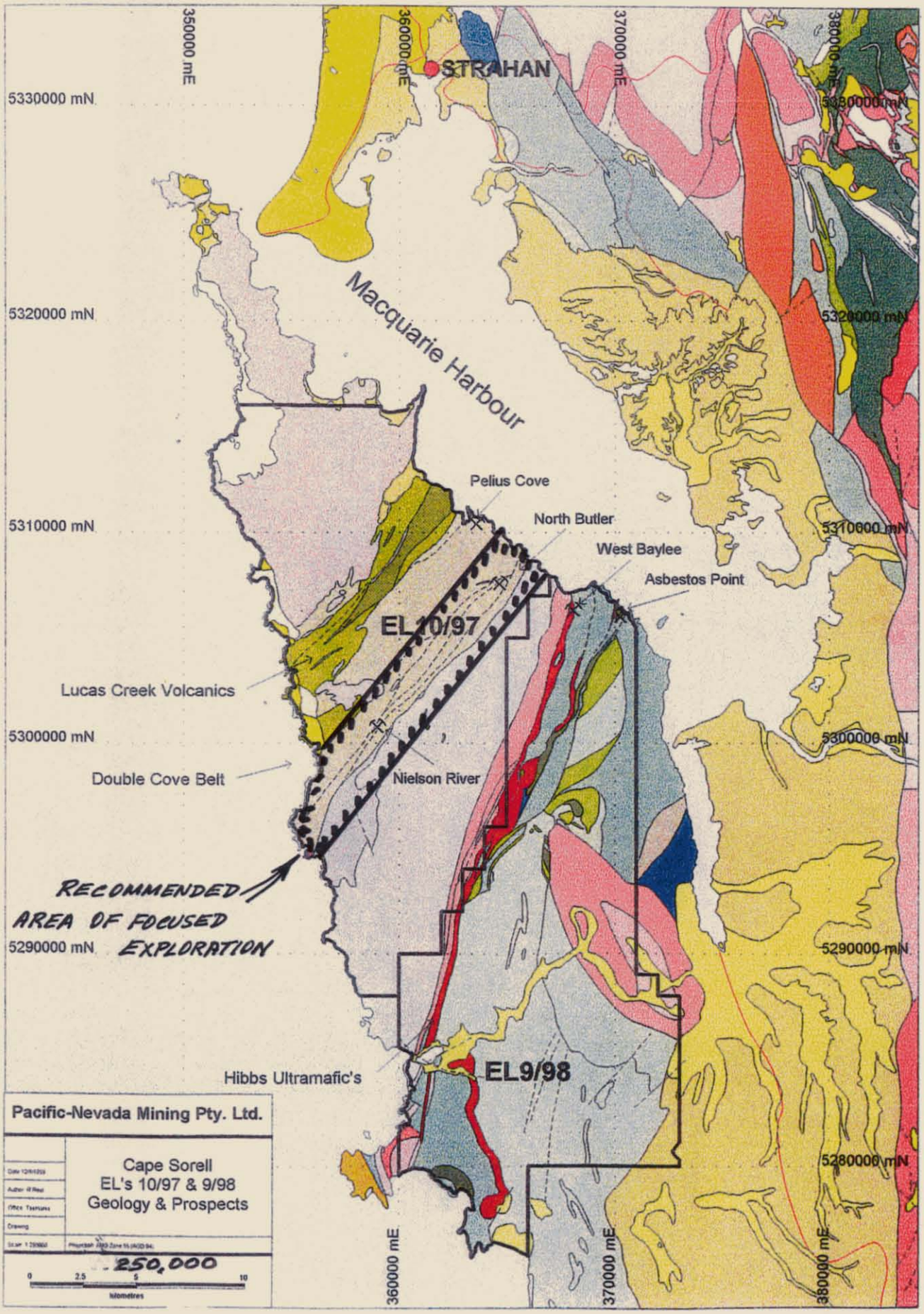
Intense alteration systems adjacent to major structures are of interest in Tasmania because they can be associated with gold deposits; eg, Henty and Lakeside and some situations in the Mt Lyell field.

The major structure adjacent to the North Butler alteration system extends for 15 km right through the Cape Sorell Peninsula. Substantial hematite-magnetite outcrops along the structure south-west of North Butler are evidence of additional alteration processes operating along the structure. Clearly it is a major structural zone along which there was significant hydrothermal activity. As such, it represents an attractive exploration target for gold deposits.

However, the country is tough and expensive to explore. These difficulties are compounded by the problems (highlighted at North Butler) of certain exploration methods.

High quality mapping, rock-chip sampling and stream sediment sampling **focused** along this north-east structural system is recommended. The whole system could be covered in one summer field season and would provide a basis for further more focused exploration.

The greatest danger in a tough expensive area like this is to be diverted onto disparate areas, whereupon field effort is spread so thinly it becomes ineffective. The key to success is to focus - and the area recommended for such focused work is shown on Fig 11.



5 cm

Figure 11.

APPENDIX 1

Rock-chip Sample Assay Results

ROCK CHIP ANALYSIS REPORT

Expioration Licence: EL10/97

Rock Chip	Easting	Northing	Au	Au 1	Au 2	Cu	Pb	Zn	Ag	As	As 1	Ba	Co	Fe	Ca	K	Mg	Mn	Na	P	Ti	Ti 1	Zr	Ni	Bi	Cd	Mo	Sb	Sn	W	U	V
		Units	ppb	ppb		ppm	ppm	ppm	ppm	ppm														ppm								
		Detection Limit	1	1		5	10	5	0.5	5														10								
		Method	F614	F614		I104	I104	I104	I104	I104														I104								
16901	364050	5307380	-1	-1		-5	-10	8	-0.05	-5														-10								
16902	364050	5307447	-1	-		7	-10	8	-0.05	-5														-10								
16903	364050	5307475	-1	-		167	13	68	-0.05	34														99								
16904	364050	5307515	4	5		249	37	189	-0.05	-5														260								
16905	364050	5307550	6	6		201	31	230	-0.05	-5														185								
16906	364050	5307584	-1	-		179	21	118	-0.05	-5														115								
16907	364050	5307598	-1	-		50	17	33	-0.05	-5														49								
16908	364050	5307642	-1	-		10	18	62	-0.05	-5														115								
16909	364050	5307675	-1	-		147	25	143	-0.05	-5														90								
16910	364050	5307693	3	3		188	26	104	-0.05	13														58								
16911	364050	5307709	3	5		54	31	99	-0.05	-5														30								
16912	364042	5307736	-1	-		56	21	64	-0.05	-5														53								
16913	364050	5307754	-1	-		6	-10	24	-0.05	-5														-10								
16914	363850	5307550	-1	-		55	22	145	-0.05	-5														65								
16915	363950	5307550	-1	-		34	16	155	-0.05	-5														330								
16916	363904	5307550	-1	-1		42	25	106	-0.05	-5														61								
16917	363885	5307550	-1	-		16	15	103	-0.05	-5														97								
16918	363825	5307550	-1	-1		44	27	81	-0.05	-5														195								
16919	363750	5307575	-1	-		74	44	347	-0.05	-5														350								
16920	363750	5307684	-1	-		8	-10	10	-0.05	-5														-10								
16921	363750	5307728	8	-		-5	11	17	-0.05	-5														-10								
16922	363850	5307500	-1	-		98	12	88	1	-5														110								
16923	363530	5307600	-1	-		86	25	118	-0.05	-5														64								
16924	363950	5307369	-1	-		8	-10	13	-0.05	-5														14								
16925	363950	5307435	-1	-		30	17	31	-0.05	-5														31								
16926	363950	5307500	-1	-		89	16	62	-0.05	-5														-10								
16927	363950	5307500	-1	-		97	42	72	-0.05	-5														140								

6170139

Rock Code	Easting	Northing	Au	Au 1	Au 2	Cu	Pb	Zn	Ag	As	As 1	Ba	Co	Fe	Ca	K	Mg	Mn	Na	P	Ti	Ti 1	Zr	Ni	Bi	Cd	Mo	Sb	Sn	W	U	V
		Units	ppb	ppb		ppm	ppm	ppm	ppm	ppm														ppm								
		Detection Limit	1	1		5	10	5	0.5	5														10								
		Method	F614	F614		I104	I104	I104	I104	I104														I104								
16928	363950	5307590	3	-		-5	15	68	-0.05	-5														105								
16929	363950	5307590	-1	-		-5	17	123	-0.05	-5														110								
16930	363950	5307590	-1	-		-5	16	96	-0.05	-5														96								
16931	364650	5307625	-1	-		6	-10	7	-0.05	-5														-10								
16932	364650	5307662	-1	-		-5	-10	10	-0.05	-5														-10								
16933	364650	5307662	-1	-		12	14	99	-0.05	-5														84								
16934	364550	5307725	3	3		-5	-10	26	-0.05	-5														-10								
16935	364550	5307710	5	3		87	12	40	-0.05	-5														59								
16936	364450	5307625	-1	-		-5	-10	7	-0.05	-5														-10								
16937	364450	5307500	-1	-		10	11	60	0.6	-5														96								
16938	364450	5307505	-1	-		26	12	39	-0.05	-5														85								
16939	364450	5307517	-1	-		-5	29	59	-0.05	-5														97								
16940	364450	5307580	-1	-		104	20	76	-0.05	-5														165								
16941	364450	5307685	-1	-		97	18	122	-0.05	-5														195								
16942	364460	5307815	95	92		74	17	17	-0.05	11														270								
16943	364460	5307815	44	32		8	-10	9	-0.05	-5														61								
16944	364450	5307690	7	6		-5	-10	12	-0.05	-5														-10								
16945	364450	5307770	-1	-		11	16	11	-0.05	-5														23								
16946	364450	5307785	-1	-		-5	-10	9	0.6	-5														-10								
16947	364332	5307648	-1	-		86	14	310	1.2	-5														88								
16948	364400	5307550	-1	-		75	11	108	0.5	-5														135								
16949	364400	5307550	-1	-		34	-10	50	-0.05	-5														83								
16950	364400	5307550	-1	-		-5	-10	68	-0.05	-5														110								
16951	364400	5307550	-1	-		-5	20	59	-0.05	-5														145								
16952	364500	5307475	-1	-		9	-10	9	-0.05	-5														-10								
16953	364150	5307510	-1	-		203	22	27	-0.05	16														48								
16954	364150	5307527	-1	-1		87	12	50	-0.05	6														47								
16955	364150	5307536	7	5		20	17	36	-0.05	-5														69								
16956	364150	5307595	-1	-		140	25	147	-0.05	-5														270								
16957	364150	5307654	-1	-		82	15	108	-0.05	-5														115								

Rock Chip	Easting	Northing	Au	Au 1	Au 2	Cu	Pb	Zn	Ag	As	As 1	Ba	Co	Fe	Ca	K	Mg	Mn	Na	P	Ti	Ti 1	Zr	Ni	Bi	Cd	Mo	Sb	Sn	W	U	V
		Units	ppb	ppb		ppm	ppm	ppm	ppm	ppm														ppm								
		Detection Limit	1	1		5	10	5	0.5	5														10								
		Method	F614	F614		I104	I104	I104	I104	I104														I104								
16956	364148	5307683	-1	-		59	16	31	-0.05	-5														180								
16959	364150	5307710	-1	-		137	16	132	-0.05	-5														85								
16960	364150	5307890	-1	-		7	-10	11	-0.05	-5														-10								
16961	364250	5307745	21	20		162	18	79	-0.05	14														255								
16962	364250	5307675	-1	-		121	12	80	-0.05	9														97								
16963	364250	5307636	-1	-		45	15	72	0.6	-5														71								
16964	364250	5307468	4	-		52	14	63	-0.05	-5														140								
16965	364350	5307553	-1	-		6	18	20	-0.05	-5														35								
16966	364350	5307557	-1	-		95	11	149	-0.05	-5														485								
16967	364350	5307558	-1	-		65	12	79	-0.05	-5														79								
16968	364350	5307564	-1	-		40	12	19	-0.05	-5														71								
16969	364350	5307667	25	25		51	19	12	-0.05	21														24								
16970	364400	5307640	-1	-1		130	16	73	-0.05	-5														80								
16971	364400	5307630	-1	-1		55	19	67	-0.05	-5														82								
16972	364400	5307620	-1	-		179	20	77	-0.05	-5														125								
16973	364400	5307515	-1	-		84	33	311	-0.05	-5														190								
16974	364400	5307465	4	-		165	19	70	-0.05	-5														82								
16975	364510	5307590	32	26		27	16	15	-0.05	-5														-10								
16976	364510	5307594	28	34		20	32	63	0.5	45														-10								
16977	364500	5307610	23	21		33	-10	7	-0.05	27														-10								
16978	364500	5307642	-1	-		17	16	46	-0.05	-5														50								
16979	364495	5307698	-1	-		13	18	32	-0.05	10														31								
16980	364495	5307696	-1	-		8	14	55	0.9	15														25								
16981	364500	5307593	94	86		42	19	69	-0.5	-5														135								
16982	364500	5307765	28	-		34	19	21	-0.5	33														-10								
16983	364425	5307550	12	-		25	14	300	-0.5	16														86								
16984	364370	5307540	6	-		98	21	153	-0.5	-5														155								
16985	364365	5307550	22	18		13	21	97	-0.5	-5														105								
16986	364225	5307540	-1	-		89	19	120	-0.5	-5														100								
16987	364170	5307550	4	-		138	25	73	-0.5	-5														145								

Rock Only	Easting	Northing	Au	Au 1	Au 2	Cu	Pb	Zn	Ag	As	As 1	Ba	Co	Fe	Ca	K	Mg	Mn	Na	P	Ti	Ti 1	Zr	Ni	Bi	Cd	Mo	Sb	Sn	W	U	V
		Units	ppb	ppb		ppm	ppm	ppm	ppm	ppm														ppm								
		Detection Limit	1	1		5	10	5	0.5	5														10								
		Method	F614	F614		I104	I104	I104	I104	I104														I104								
16988	364121	5307542	8	-		250	34	182	-0.5	-5														245								
16989	364068	5307550	14	-		37	22	143	0.6	-5														315								
16990	364100	5307480	-1	-1		48	16	80	-0.5	-5														115								
16991	364100	5307643	16	22		104	24	115	-0.5	-5														225								
16992	364100	5307680	-1	-		62	17	154	-0.5	-5														110								
16993	364100	5307899	-1	-		115	22	138	0.9	-5														150								
16994	364100	5307713	-1	-		119	23	118	-0.5	-5														135								
16995	364100	5307717	-1	-		97	17	90	-0.5	-5														82								
16996	364200	5307790	-1	-		-5	-10	7	-0.5	-5														-10								
16997	364200	5307776	88	92		36	37	24	-0.5	-5														16								
16998	364200	5307690	-1	-		128	16	88	-0.5	-5														135								
16999	364190	5307525	-1	-		30	16	26	-0.5	-5														41								
17000	364294	5307490	-1	-1		19	21	62	-0.5	-5														66								
17001	364308	5307525	-1	-		134	34	224	-0.5	-5														105								
17002	364289	5307604	28	34		78	16	70	-0.5	39														180								
17003	364300	5307639	2	7		63	10	75	-0.5	-5														190								
17004	364300	5307650	-1	-1		117	19	102	-0.5	-5														64								
17005	364289	5307711	66	70		37	44	16	-0.5	10														15								
17006	364303	5307760	108	120		215	37	14	1	37														125								
17007	364300	5307793	-1	-		14	-10	13	0.7	-5														30								
17008	364600	5307716	28	32		70	25	35	-0.5	28														43								
17009	364600	5307875	-1	-		22	15	14	-0.5	-5														-10								
17010	364600	5307900	-1	-		13	15	26	-0.5	-5														22								
17011	364345	5307543	-1	-		67	14	59	-0.5	-5														100								
17012	364338	5307541	-1	-		39	21	333	-0.5	-5														93								
17013	364323	5307534	-1	-		72	35	168	-0.5	-5														240								
17014	364312	5307530	-1	-		54	28	247	-0.5	-5														160								
17015	364304	5307509	-1	-1		169	16	45	-0.5	-5														100								
17016	364303	5307497	-1	-		113	18	78	-0.5	15														105								
17017	364252	5307640	-1	-		32	15	87	-0.5	-5														95								

Rock Chip	Easting	Northing	Au	Au 1	Au 2	Cu	Pb	Zn	Ag	As	As 1	Ba	Co	Fe	Ca	K	Mg	Mn	Na	P	Ti	Ti 1	Zr	Ni	Bi	Cd	Mo	Sb	Sn	W	U	V
		Units	ppb	ppb		ppm	ppm	ppm	ppm	ppm														ppm								
		Detection Limit	1	1		5	10	5	0.5	5														10								
		Method	F614	F614		I104	I104	I104	I104	I104														I104								
17018	364263	5307642	-1	-		28	34	69	-0.5	-5														40								
17019	364279	5307653	-1	-		118	20	83	0.8	-5														52								
17020	364290	5307663	2	-		51	14	140	0.7	-5														97								
17021	364303	5307665	10	-		7	-10	7	1.3	8														-10								
17022	364312	5307670	116	118		12	19	22	-0.5	12														54								
17023	364342	5307678	6	-		32	22	23	0.5	-5														23								
17024	364356	5307685	10	-		13	13	11	-0.5	-5														12								
17025	364365	5307660	44	-		34	18	18	-0.5	20														12								
17026	364420	5307630	8	-		74	26	34	-0.5	-5														39								
17027	364432	5307627	66	64		75	39	16	-0.5	27														130								
17028	364465	5307622	4	-		25	18	44	-0.5	-5														24								
17029	364472	5307636	2	-		6	13	21	-0.5	8														-10								
17030	364470	5307632	10	-		54	13	89	-0.5	18														100								
17031	364477	5307644	4	-		-5	14	20	-0.5	-5														23								
17032	364472	5307636	4	-		-5	13	13	-0.5	14														17								
17033	364250	5307812	4	-		8	-10	14	-0.5	-5														-10								
17034	364258	5307859	44	48		73	13	7	2	8														37								
17035	364270	5307833	204	170		173	42	11	1.7	20														160								
17036	364278	5307820	66	-		129	23	7	1.7	43														-10								
17037	364280	5307817	46	-		418	70	7	1.7	136														-10								
17038	364266	5307801	30	-		113	165	17	-0.5	36														150								

Rock Chip Attributes Report

Exploration Licence: EL10/97

Rock Chip	Description	Comments	Magnetic Susceptibility	BMR Rock Code	Area
16901	Quartzite. MS 0.02		0.02		North Butler
16902	Quartzite Talus. MS 0.01		0.01		North Butler
16903	Weathered clay rich sandy rock. MS 0.24, 0.21		0.24,0.21		North Butler
16904	(Campsite) Clay rich sandy rock. Very weathered. MS 0.24-0.3		0.24-0.3		North Butler
16905	Clay rich less weathered light green sandy rock. MS 0.25-0.37		0.25-0.37		North Butler
16906	Iron stained light green clay rich sandy rock. MS 3.3-4.3		3.3-4.3		North Butler
16907	?Carbonate alteration. MS 0.08-0.22		0.08-0.22		North Butler
16908	Creek float. MS 61.0		61		North Butler
16909	Weathered gabbro. MS 0.22-0.27		0.22-0.27		North Butler
16910	Red rock with goethite veins?. MS to 5.17		5.17		North Butler
16911	Gabbro. MS to 0.62		0.62		North Butler
16912	MS to 0.31		0.31		North Butler
16913	Quartzite talus. MS 0.02-0.03		0.02-0.03		North Butler
16914	Gabbro. MS 0.2		0.2		North Butler
16915	Gabbro. MS 0.34		0.34		North Butler
16916	Breccia. MS 14-29 in creek bed.		14-29		North Butler
16917	Sandstone. MS to 22.5		22.5		North Butler
16918	Sandstone + pebble conglomerate consisting largely of basalt. MS to 12		12		North Butler
16919	Weathered basalt with amygdules.				North Butler
16920	White chert.				North Butler
16921	Black shale.				North Butler

Rock Chip	Description	Comments	Magnetic Susceptibility	BMR Rock Code	Area
16922	Volcaniclastic sandstone. MS 0.4-0.68		0.4-0.68		North Butler
16923	Gabbro				North Butler
16924	Quartzite with quartz veins. MS 0.01-0.02		0.01-0.02		North Butler
16925	Dark grey shale.				North Butler
16926	Quartzite with grey veining. Float. MS 0.01		0.01		North Butler
16927	Hard dark grey creek float. MS 0.53		0.53		North Butler
16928	Hard dark grey fine grained sandstone. MS 35.6. Float in creek.		35.6		North Butler
16929	Hard fine grained dark grey siltstone. MS 58-66. Creek float.		58-66		North Butler
16930	Coarse grained lithic sandstone - trace sulphides. MS 8.0. Creek float.		8		North Butler
16931	Quartzite float. MS 00		0		North Butler
16932	Chert.				North Butler
16933	Pyrite rich rock.				North Butler
16934	Float in creek. Veined quartzite.				North Butler
16935	Coarse grained clayey sandstone. MS 0.03		0.03		North Butler
16936	Secondary silica rock. MS 0.01		0.01		North Butler
16937	Shaly mudstone. MS 0.23-0.27. Poor surface.		0.23-0.27		North Butler
16938	Fine grained green sandstone. MS up to 0.79		0.79		North Butler
16939	Possible gossan. MS 0.26		0.26		North Butler
16940	N down slope. Pprobable dolerite.				North Butler
16941	Dolerite. MS 0.39		0.39		North Butler
16942	Bend in creek. Grey shale with disseminated pyrite. MS 0.05		0.05		North Butler
16943	Weathered ?altered clay rich rock.				North Butler

Rock Chip	Description	Comments	Magnetic Susceptibility	BMR Rock Code	Area
16944	Quartzite. MS 00		0		North Butler
16945	Limonite+goethite rich rock. MS to 0.30		0.3		North Butler
16946	Iron rich quartzite. MS to 0.04		0.04		North Butler
16947	Fresh medium grained dolerite. Float.				North Butler
16948	Weathered clay rich siltstone.				North Butler
16949	Weathered clay rich siltstone. MS 0.29		0.29		North Butler
16950	Lithic granule conglomerate with fine quartz veins. MS 0.39		0.39		North Butler
16951	Mottled white + green fine grained sandstone MS 0.18		0.18		North Butler
16952	Schistose quartzite mylonite.				North Butler
16953	Iron rich weathered material. MS 0.2		0.2		North Butler
16954	Weathered clay rich fine grained sandstone. MS 0.18		0.18		North Butler
16955	Fine grained sandstone. MS 0.17		0.17		North Butler
16956	Weathered dolerite. MS 0.39		0.39		North Butler
16957	Weathered coarse grained dolerite.				North Butler
16958	Outcrop in main creek. Weathered medium grained sandstone.				North Butler
16959	In branch creek. Northern bank weathered fine grained dolerite?. MS 0.27		0.27		North Butler
16960	Quartzite outcrop. MS 00		0		North Butler
16961	Weathered clay rich breccia with quartz veining not suitable to MS.				North Butler
16962	Medium grained lithic sandstone. MS to 0.37		0.37		North Butler
16963	Moderately weathered medium grained dolerite. MS .24		0.24		North Butler
16964	Moderately weathered shaly medium grained clay rich sandstone.				North Butler
16965	Clay rich sandy textured mylonite. Float. MS 0.17		0.17		North Butler

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Rock Chip	Description	Comments	Magnetic Susceptibility	BMR Rock Code	Area
16966	Mylonite. MS 0.23		0.23		North Butler
16967	Outcrop in creek. ?Breccia. MS to 0.58		0.58		North Butler
16968	Breccia. MS to 0.17		0.17		North Butler
16969	Dark grey siltstone. MS to 0.15		0.15		North Butler
16970	Dolerite. MS 0.45		0.45		North Butler
16971	Basalt. MS 0.41		0.41		North Butler
16972	Khaki siltstone				North Butler
16973	Dolerite. MS 0.49		0.49		North Butler
16974	Weathered lithic sandstone. MS 0.32		0.32		North Butler
16975	Cream quartz sericite rock. MS 0.08		0.08		North Butler
16976	Sandy secondary quartz rock with iron staining. MS 0.04		0.04		North Butler
16977	Leached limonite, sandy quartz rock. MS to 0.15		0.15		North Butler
16978	Partly weathered quartz sericite pyrite rock. MS to 0.03		0.03		North Butler
16979	Grey secondary silica rock with leached margins. MS to 0.02		0.02		North Butler
16980	Massive pyrite in secondary silica. MS to 0.20		0.2		North Butler
16981	Basalt weathered tuff. MS to 0.43		0.48		North Butler
16982	Float - crumbly secondary silica rock, limonitic. MS to 0.14		0.14		North Butler
16983	Reddish brown siltstone. MS to 0.8		0.8		North Butler
16984	Medium grained dolerite. MS to 0.37		0.37		North Butler
16985	Basalt breccia. MS to 0.57		0.57		North Butler
16986	Coarse grained clay rich sandstone. MS to 0.09		0.09		North Butler
16987	Coarse grained sandstone. MS to 0.27		0.27		North Butler
16988	Buff clay rich massive and possible spheroidal texture. MS to 0.19		0.19		North Butler

Rock Chip	Description	Comments	Magnetic Susceptibility	BMR Rock Code	Area
16989	Dolerite. MS to 0.33		0.33		North Butler
16990	Thinly laminated weathered clay rich fine grained sandstone. MS to 0.12		0.12		North Butler
16991	Weathered clay rich lithic small pebble conglomerate. MS to 0.33		0.33		North Butler
16992	Weathered dolerite? MS to 0.38		0.38		North Butler
16993	Coarse grained lithic sandstone. MS to 3.3+2.92		3.3+2.92		North Butler
16994	Coarse grained lithic granule conglomerate MS to 5		5		North Butler
16995	In creek bed. Lithic granule conglomerate? MS to 0.25		0.25		North Butler
16996	Very fine grained grey+white mudstone. MS to 0.01 Possible creek gold contamination.		0.01		North Butler
16997	Light grey clay rich mudstone - Possible creek gold contamination. MS to 0.04 - ironstained material 0.27.		0.04-0.27		North Butler
16998	Outcrop south side of creek. Fresh coarse grained lithic sandstone. MS to 0.04.		0.04		North Butler
16999	Buff siltstone.				North Butler
17000	Clay rich sandy rock. MS to 0.27		0.27		North Butler
17001	Coarse grained sandstone. MS to 0.24.		0.24		North Butler
17002	Buff clay rich coarse grained sandy textured rock. MS to 0.17.		0.17		North Butler
17003	Sandstone. Pale olive green medium grained. MS to 0.47.		0.47		North Butler
17004	Dolerite. MS to 0.47.		0.47		North Butler
17005	Weathered dark grey shaly mudstone. MS to 0.06.		0.06		North Butler
17006	Black pyritic shale. MS to 0.06.		0.06		North Butler
17007	Dark green clay rich medium grained sandstone. MS to 0.26.		0.26		North Butler
17008	Buff limonitic secondary quartz. Very friable. MS to 0.04.		0.04		North Butler
17009	Secondary quartz float. MS to 0.03.		0.03		North Butler

Rock Chip	Description	Comments	Magnetic Susceptibility	BMR Rock Code	Area
17010	Buff friable limonitic clay secondary quartz rock. MS to 0.05.		0.05		North Butler
17011	Pale coloured dolerite. MS to 0.23.		0.23		North Butler
17012	Dolerite. (Fresh) MS to 0.45.		0.45		North Butler
17013	Dolerite with minor quartz veins + limonite in small fractures. MS to 0.39		0.39		North Butler
17014	Dolerite. MS to 0.35.		0.35		North Butler
17015	Banded fine grained + medium grained lithic sandstone. MS to 0.33		0.33		North Butler
17016	Fine grained sandstone as per 17015. MS to 0.26.		0.26		North Butler
17017	Basalt. MS to 0.21.		0.21		North Butler
17018	Pale dolerite. MS to 0.21.		0.21		North Butler
17019	Dolerite. MS to 0.61.		0.61		North Butler
17020	Dolerite coarse grained. MS to 0.58.		0.58		North Butler
17021	Limestone. MS to 06		6		North Butler
17022	Dark grey mudstone with pyrites. MS to 0.05.		0.05		North Butler
17023	Lithic medium grained sandstone + shale. MS to 0.02.		0.02		North Butler
17024	Cream veined mudstone. MS to 0.03.		0.03		North Butler
17025	Scaly mudstone breccia. MS to 0.10.		0.1		North Butler
17026	Silicified breccia. MS to 0.15.		0.15		North Butler
17027	Dark grey pyritic shale. MS to 0.05		0.05		North Butler
17028	Quartz ?feldspar pyrite rock. MS to 0.03.		0.03		North Butler
17029	Secondary silica buff to grey colour. MS to 0.03.		0.03		North Butler
17030	(But upstream of 17029 by +/- 5m) Pyrite + limonite. MS to 0.04.		0.04		North Butler
17031	Pale green quartz, sericite, pyrite. MS 0.02.		0.02		North Butler

Rock Chip	Description	Comments	Magnetic Susceptibility	BMR Rock Code	Area
17032	Down slope rubble fresh secondary dark grey quartz with pyrite. MS to 0.02.		0.02		North Butler
17033	Crystalline vein quartz and white chert float. MS to 0.02.		0.02		North Butler
17034	+/-50% pyrite in dark grey mudstone.				North Butler
17035	Pyritic dark grey mudstone. MS to 0.04		0.04		North Butler
17036	Mudstone with limonite after pyrite. MS to 0.17		0.17		North Butler
17037	Limonite rock? After pyrite. MS to 0.18.		0.18		North Butler
17038	Grey mudstone + olive sandstone. MS 0.01 poor surface.		0.01		North Butler

APPENDIX 2

Soil Sample Register

(NEMS)

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project	CAPE SCELL (PAC-NEV)	Sampler	GORDON	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 93

NORTH BUTLER GRID

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		Cu	Pb	Zn	As	Au ppb	Ag	
16501	8000	4150	Soil to 200mm, then gravel - gray clay - chips					<1		Sample depth 600mm
16502	7987.5	4150	Humus (150) → Gravel - gray clay - chips					<1		450mm
16503	7975	4150	Humus (150) - Gravel - gray clay - chips					<1		500mm
16504	7962.5	4150	" " "					<1		550mm
16505	7950	4150	Humus (150) - Gravels + rock chips.					<1		600
16506	7937.5	4150	Humus (250) - gravel - white clay + chips					<1		650
16507	7925	4150	Soil (400) - fg. gravel - qtz + chips					<1		700
16508	7912.5	4150	Soil - sandy clay - wh + gy clay + chips					<1		975
16509	7900	4150	Humus (100) - qtz wash - wh clay + chips					<1		550
16510	7887.5	4150	Humus (100) - qtz gravel - gy clay + chips					16		~~450~~
16511	7875	4150	Humus (100) - qtz gravel - wh clay + chips					<1		400
16512	7862.5	4150	Humus (70) - gravel - wh + gy clay + chips					<1		750
16513	7850	4150	Qtz. gravel (700) - brn clay - dk brn + chips					185		950
16514	7837.5	4150	Gravel (350) - brn + blk clay					9		500
16515	7825	4150	Wash (150) - wh + lt brn clay					99		500
16516	7812.5	4150	Humus - mud (550) - orange - lt brn clay					93		750
16517	7800	4150	Red clay/blk blebs (450) - orange/red clay					<1		550
16518	7787.5	4150	Humus - orange/red clay (250) - orange clay					<1		325
16519	7775	4150	lt brn clay (300) - orange/gn blebs					8		400
16520	7762.5	4150	orange clay (350) - orange clay, gn blebs					10		450
16521	7750	4150	orange clay - orange clay c/gn blebs					5		300
16522	7737.5	4150	orange clay					66		450
16523	7725	4150	Humus (50) - orange clay					14		550
16524	7712.5	4150	Humus (75) - orange clay - red frags					30		600
16525	7700	4150	Orange - yellow gritty clay					18		950

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project	CAPE SORELL	Sampler	GALBRAITH.	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 99

NORTH BUTLER GRID (PAC-NEV.)

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16526.	7687.5	4150	Humus(100) – orange clay.	<1	Sample depth 600mm.
16527	7675	4150	Humus(75) – orange clay – gn + brn clay + chips	<1	550
16528.	7662.5	4150.	Orange brn clay – lt brn/orange clay	<1	450.
16529	7650	4150.	Yellow clay – white chips.	<1	1100.
16530.	7637.5	4150.	Humus(75) – orange clay & lt brn blebs	<1	1250
16531	7625	4150	Humus (400) – orange clay	<1	1500.
* 16532	7612.5	4150.	Soil (350) – orange clay, darker c depth.	<1	1500
16533	7587.5	4150.	Soil(100) – orange clay & gn/red blebs + chips	<1	650
16534	7575	4150	Soil(100) – red clay – orange clay & chips	<1	500
16535	7562.5	4150	Soil(150) – orange clay – red/wh/gn mottled clay	<1	850
16536	7550.0	4150.	Soil(200) – orange/red/gn clay & chips.	<1	700.
16537	7537.5	4150.	Soil(200) – orange clay – red clay + gn chips	<1	800
16538	7525	4150.	Soil(200) – orange/red/gn blebs + chips	<1	850
16539	7512.5	4150	Soil(400) – yellow clay – orange/red blebs + chips	3	850
16540.	7500.	4150	Soils(300) – gravel – brn/orange clay	4	900.
16541.	7487.5	4150	Soils(350) – gravel + rock chips	<1	600.
16542	7475	4150	Soils(400) – gravel – rock.	<1	475
16543.	7462.5	4150	Soil(300) – gravel – rock.	<1	500
16544.	7450	4150	Soil(300) – gravel – rock.	<1	500
16545	7437.5	4150	Soil(350) – gravel – rock	<1	900
16546	7425	4150	Soil(300) – gravel – rock.	<1	650.
16547	7412.5	4150.	Soil(300) – gravel – gritty wh clay.	<1	750
16548.	7400	4150.	Soil(400) – gravel – finer clay/gravel (wet)	<1	1000.
16549	? NOT USED				
* 16550	7600?	4150			

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project	CAPE SORELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 95

NORTH BUTLER (PAC-NEV) GRID

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16551	8,000	4050.0	Soil-gravel – wh clay ē chips	<1	Sample depth 450 mm
16552	7987.5	4050	Soil(400)-gravel – wh clay ē chips	<1	900
16553	7975	4050	Soil – gravel – white clay ē chips	<1	475
16554	7962.5	4050	Soil(500) – gravel ē rock chips	<1	900
16555	7950	4050	Soil(250) – gravel(450) – blue pug ē chips	<1	550
16556	7937.5	4050	Soil(300) – gravel(600) – wh clay ē chips	<1	700
16557	7925	4050	Soil(300) – sandy gravel(600) – brn clay ē chips	<1	725
16558	7912.5	4050	Soil(300) – gravel/clay(550) – blue pug + chips	<1	700
16559	7900	4050	Soil(350) – gravel – wh clay ē chips	<1	550
16560	7887.5	4050	Soil(400) – gravel – gy/wh clay ē chips	<1	700
16561	7875	4050	Soil(300) – gravel/brn clay + chips	<1	600
16562	7862.5	4050	Soil(200) – gravel – white clay ē chips	<1	500
16563	7850	4050	Soil(250) – gravel ē chips	<1	625
16564	7837.5	4050	Gravel, chips at base	<1	550
16565	7825	4050	Soil(150) – gravel + some chips	<1	525
16566	7812.5	4050	Soil(200) – gravel – gn/orange clay + chips	<1	550
16567	7800	4050	Soil(100) – orange clay	39	650
16568	7787.5	4050	Soil(150) – orange clay – fawn clay ē chips	2	675
16569	7775	4050	Orange clay – light clay ē chips	<1	750
16570	7762.5	4050	Soil(100) – brn + orange clay + chips	<1	700
16571	7750	4050	Soil(200) – orange clay – lighter clay + chips	<1	800
16572	7737.5	4050	Soil(50) – orange clay – lighter clay + chips	<1	550
16573	7725	4050	Soil(50) – orange clay – green fragments + chips	13	850
16574	7712.5	4050	Soil(50) – orange clay – yellow clay ē chips	8	1250
16575	7700	4050	Soil(50) – orange clay + chips	38	1350

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC-NEVADA

Project	CAPE SORELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	BIRNIE	Sampling Period	SEP 99.

NORTH BUTLER

Sample Number	Co-ordinates N	Co-ordinates E	Description	Assays				Au(ppb)	Comments
16576.	7687.5	4050	Soil(300) - Orange clay - red/gn blebs + chips					36	Sample depth 900 mm
16577.	7675	4050	Soil(200) - brn/org clay - gn/yellow clay c̄ chips					237	700
16578	7662.5	4050	Soil(300) - brn/org clay - green clay c̄ chips					9	925
16579.	7650.	4050	Soil(75) - org clay - yell/org + gn blebs c̄ chips					8	875
16580.	7637.5.	4050	Soil(75) - org clay - wh + gn chips.					22	1000
16581	7625	4050	Soil(75) - org clay + wh rk. chips.					8	1000
16582.	7612.5	4050	Soil(75) - org clay					38	1000
16583	7587.5	4050	Org clay					<1	1500.
16584	7575	4050	Soil(75) org clay + gn blebs + chips					24	1500
16585.	7562.5	4050	Soil(75) - org clay					<1	1500
16586.	7550	4050	Soil(75) - org clay - white chips					<1	1500
16587.	7537.5	4050	Soil(75) - org clay - gn patches + chips					<1	1000
16588.	7525	4050	Soil(250) - gravel - green detrital + chips.					<1	500.
16589.	7512.5	4050	Soil(250) - rocks - gravel c̄ chips.					<1	400.
16590.	7500	4050	Soil - rock. - gravel (5 goes / per sample)					<1	500.
16591.	7487.5	4050.	Soil(300) - gravel - wh clay c̄ chips					<1	600.
16592.	7475	4050	Soil - gravel - wh clay c̄ chips.					<1	475.
16593	7462.5.	4050	Soil(300) - gravel/soil - gy clay c̄ chips.					<1	575
16594.	7450	4050	Soil(300) - gravel - blue clay c̄ chips					<1	750.
16595.	7437.5.	4050	Soil + gravel c̄ chips.					<1	600.
16596	7425	4050	Soil(600) - gravel - minor blue clay c̄ chips					<1	975.
16597	7412.5	4050	Soil(400) - gravel c̄ chips.					<1	900.
16598	7400.	4050	Soil(600) - brn clay/gravel c̄ chips.					<1	600
16599	NOT USED.								
16600									

67055

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC-NEV

Project	CAPE-SURCH	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 94

NORTH BUTLER GRID

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16601	8,000	4250	Soil(250) – gravel	<1	Sample depth 550 mm.
16602	7987.5	4,250	Soil(350) – gravel	<1	550
16603	7975	4,250	Soil(400) – green gravel	<1	750
16604	7962.5	4250	Gravel(400) – gn/gy/reddish clay	16	700
16605	7950	4250	Soil(500) – lt brn clay – white clay	2	950
16606	7937.5	4250	Humus(300) – gritty clay –	<1	1000
16607	7925	4250	Soil(200) – lt gy sandy clay – mottled clay	2	1000
16608	7912.5	4250	Soil(250) – lt gy/wh clay – org/cream clay	12	950
16609	7900	4250	Soil(300) – lt gn clay – dk gn gritty clay	8	900
16610	7887.5	4250	Soil(400) – lt brn clay – blue/gy gritty clay	4	800
16611	7875	4250	Gravel(500) – dk gn gritty clay.	18	800
16612	7862.5	4250	Brn clay – quartz	4	850
16613	7850	4250	Gravel – brn/wh clay.	4	800
16614	7837.5	4250	lt brn clay(450) – gn clay.	2	800
16615	7825	4250	clay – float – mottled gn/org clay.	8	700
16616	7812.5	4250	blk clay/mud – brn clay – creek bank	72	800
16617	7800	4250	lt brn clay – gravel – red clay – creek bank	14	900
16618	7787.5	4250	clay(180) – blk clay – wh scree – blk clay/creek	58	1800
16619	7775	4250	lt brn clay ē chips	42	900
16620	7762.5	4250	bl-blk clays – soak area near ck	56	1100
16621	7750	4250	Yellow clay – sandy gravel –	6	700
16622	7737.5	4250	humus – lt brn clay – lt gn clay	8	1100
16623	7725	4250	yellow clay – brown/red clay	8	1250
16624	7712.5	4250	lt brn soil/clay – gn float – lt brn clay	4	1600
16625	7700	4250	brn soil(400) – lt brn clay – yellow/gn clay	4	850

950139

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC - NEVADA

Project	CAPE SCRELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 99.

NORTH BUTLER GRID

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16626	7687.5	4250	dk brn soil (450) - red/brn clay - gn clay	12	Sample depth 12cm.
16627	7675	4250	dK brn soil - light clay, sandy	22	950
16628	7662.5	4250	lt brn clay (750) - lt clay - red & wh. chips	152	1000
16629	7650	4250	clay (350)	74	450
16630	7637.5	4250	soil (150) - brn/yell clay - yellow/gy chips	18	1200
16631	7625	4250	soil (750) - choc. clay - chips	16	750
16632	7612.5	4250	soil (300) - gn float - choc brn clay + chips	4	950
16633	7587.5	4250	soil (100) - orange clay + gn blebs & chips	2	550
16634	7575	4250	soil (150) - yellow clay - orange clay	<1	1550
16635	7562.5	4250	soil (100) - orange clay - gn clay + chips	14	1000
16636	7550	4250	soil (100) - org/brn clay + ~~red~~ chips	42	400
16637	7537.5	4250	soil (250) - brn clay - org clay + gn chips	8	600
16638	7525	4250	soil (200) - gravel - org clay, gn blebs, gn chips	6	650
16639	7512.5	4250	soil (150) - gravel - lt brn/wh clay + chips	16	350
16640	7500	4250	soil + gravel - chips	2	300
16641	7487.5	4250	soil + gravel - gravel + chips	<1	500
16642	7475	4250	soil + gravel - brn clay - lighter clay	2	450
16643	7462.5	4250	soil (200) + gravel + soil - wh clay + chips	<1	600
16644	7450	4250	soil (300) - gravel + chips (3 Tries)	<1	600
16645	7437.5	4250	soil (200) - gravel - blue clay - wh clay + chips	10	900
16646	7425	4250	soil (250) - gravel - clay + chips	1	625
16647	7412.5	4250	soil (150) - lt brn gravel - white clay + chips	<1	550
16648	7400	4250	soil (200) - lt brn clay + chips	<1	475
16649	NOT TAKEN				
16650					

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC - NEVADA

Project	CAPE SORELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 99

NORTH - BUTLER

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16651	8000	4350	Soil(150) - gravel - gy clay + chips	<1	Sample depth 625 mm
16652	7987.5	4350	soil(150) - gravel - wh/gy clay + chips	<1	600
16653	7975	4350	soil(350) - gravel + blk chips + qz + wh clay	<1	550
16654	7962.5	4350	soil(300) - gravel - lt brn clay + chips	<1	700
16655	7950	4350	soil(300) - gy gravel - blue clay + chips	28	650
16656	7937.5	4350	soil(400) - gravel - wh + gy clay + chips	<1	700
16657	7925	4350	soil(250) - gravel - wh/gy/blue clays	6	550
16658	7912.5	4350	soil(250) - wh clay + chips	<1	500
16659	7900	4350	soil(600) - wh clay - wh/brn clay + chips	<1	800
16660	7887.5	4350	soil(250) - wh clay + chips	2	500
16661	7875	4350	soil(300) - gravel - wh clay + chips	2	650
16662	7862.5	4350	soil(500) - gravel - wh clay + chips	<1	850
16663	7850	4350	soil(400) - rocks/gravel + rock chips	<1	700
16664	7837.5	4350	soil + gravel + chips - near outcrop	<1	600
16665	7825	4350	soil(400) + gravel to rock chips.	<1	600
16666	7812.5	4350	soil(300) - gravel + rocks	<1	600
16667	7800	4350	soil(400) - gravel, rocks.	<1	800
16668	7787.5	4350	soil(300) - gravel & - wh clay + chips.	<1	600
16669	7775	4350	soil(300) - gravel + chips.	<1	500
16670	7762.5	4350	soil(300) - gravel - wh clay + wh/gn chips	<1	900
16671	7750	4350	soil(300) - gravel + clay - blue clay	4	800
16672	7737.5	4350	soil + gravel + rocks, somewh clay, near p/e	<1	550
16673	7725	4350	soil(300) - gravel - wh clay + chips	2	550
16674	7712.5	4350	soil(350) - brn clay - brn/org clay + blk chips	24	650
16675	7700	4350	soil(200) - soil/gravel - org clay + blk chips	14	500

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC - NEVADA

Project	CAPE SOREL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 99.

NORTH BUTLER

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16676	7687.5	4350	humus(100) – orange clay + gn chips.	6	Sample depth 825 mm.
16677	7675	4350	humus(100) – org clay – lt brn/wh clay+chips	4	600
16678	7662.5	4350	orange clay + gn chips.	2	550
16679	7650.	4350.	soil(50) – org clay + gn chips	2	700
16680.	7637.5	4350	soil(50) – org clay + org chips	4	950
16681	7625	4350	soil(75) – org clay + gn chips.	4	750
16682	7612.5	4350	soil(50) – org clay.	2	400
16683.	7587.5	4350	soil(100) – org clay + gn chips	2	800
16684	7575.	4350	soil(250) – org clays + gn chips	4	800
16685.	7562.5	4350	soil(200) – org clay + gn chips.	4	800
16686.	7550	4350	soil(200) – org clay + chips.	2	600
16687	7537.5	4350	soil(350) – org clay + chips.	2	750
16688	7525	4350	soil(300) – org clay –	<1	550
16689	7512.5	4350	soil(500) – org clay + wh. chips	<1	650
16690	7500	4350	brn soil + mud(500) – brn/org clay – org clay.	2	850
16691	7487.5	4350	soil(150) – rks + gravel	<1	350
16692	7475	4350	soil(300) – gravel + rocks – gy clay + chips	<1	450
16693	7462.5	4350	soil(300) – gravel – lt brn – blk clay	<1	450
16694	7450	4350	soil. – gravel – rk chips (4 holes tried)	2	400
16695	7437.5	4350	soil(200) – gravel + chips	<1	450
16696	7425	4350	soil(200) – gravel + rocks.	<1	600.
16697	7412.5	4350	gravels + chips.	<1	700
16698	7400	4350	soil/Humus(500) – rock.	<1	500.
16699	NOT USED.				
16700					

660129

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC NEVADA

Project	CAPE SIRELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	INALABS	Sampling Period	SEP 99.

NORTH BUTLER

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E						Au(ppb)		
16701	8000	4450	Gravel(400)-banded wh/ltbrn clay.					6		Sample depth 650 mm.
16702	7987.5	4450	Gravel – rock + lt clay + chips.					<1		600
16703	7975	4450	Gravel – rock + clay + chips.					<1		550
16704	7962.5	4450.	Gravel – ltbrn clay + gravel + rocks.					<1		500
16705	7950	4450	Gravel - rocks – blue/gy pug + chips.					40		900
16706.	7937.5	4450	Soil(300) - gravel - blue/wh/yellow pug + chips					50		1100
16707	7925	4450	Gravel/rocks – wh/ltgn clay + pug.					4		900
16708	7912.5	4450	Gravel(300) – ltgn clay - wh/gn blebs + chips					2		525
16709	7900	4450	gravel(400) – wh/brn clay - yell/gn clay.					2		1000
16710	7887.5	4450	humus(100) – gravel – & rock chips.					8		600
16711	7875	4450	humus(100) – org/gy/brn clay – org clay.					4		950
16712.	7862.5	4450	brn clay/gravel – brn/gy clay + chips					6		550
16713	7850	4450	gy/brn/org clay + chips.					8		750
16714	7837.5	4450	humus (100) – org/wh clay + chips.					10		650
16715	7825	4450	humus/brn gravel(300) – org/wh/gn clay + chips					6		650
16716	7812.5	4450	soil – org clay + wh & gn chips.					4		600
16717	7800.	4450	gravel – org clay – wh chips.					6		550
16718.	7787.5	4450	soil + gravel(400) – org clay + chips					8		525
16719	7775	4450	gravel(800) – brn clay – wh/yell clay.					6		1000
16720	7762.5	4450	soil(500) – gravel – org clay + wh chips.					4		700
16721.	7750.	4450	soil/gravel(300) – org clay + wh chips.					2		650
16722	7737.5	4450	humus(100) – org/wh clay + chips.					4		800
16723	7725	4450	humus(200) – brn clay – ltbrn clay + wh chips					<1		625
16724	7712.5	4450	brn clay – wh clay + chips.					<1		450
16725	7700	4450	humus(200) – gy clay + rocks.					<1		950

990113

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC-NEVADA

Project	CAPE STRELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEPT 99.

NORTH BUTLER

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16726.	7687.5	4450	humus(200) – brn clay – dk brn clay on rock	12	Sample depth 850 mm.
16727.	7675	4450	humus(150) – lt brn clay – org/gy clay + chips	8	950.
16728	7662.5	4450	brn soil – yellow clay – lt gn/wh clay	18	950
16729	7650	4450	humus(200) – brn/yell clay/ – gn clay + chips	10	850
16730	7637.5	4450	soil – red/yell clay.	14	800
16731	7625	4450	soil(300) – gravel – gy clay + lt brn chips	2	1100
16732	7612.5	4450	soil(300) – gy clay – yellow/wh clay + chips	2	900
16733	7587.5	4450	soil(300) – gravel – org/brn clay – yellow/wh chips	20	1100
16734	7575	4450	humus(300) – gravel – dk brn/org clays.	4	800
16735	7562.5	4450	soil(300) – gravel – org clay/gobbles + chips	40.	750
16736	7550	4450	soil(400) – gravel – wh/gn clay & chips.	26	900
16737	7537.5	4450	gravel – wh clay + chips. [creek bank]	<1	650
16738.	7525	4450	lt brn clay + wh chips. [E Bank of creek]	<1	550
16739	7512.5	4450	soil(350) – gravel – lt brn/org clay/gn + chips	4	900
16740	7500	4450	soil(450) – gravel + clay – wh/lt brn clay + chips	8	950
16741	7487.5	4450	soil(500) – gravel + rocks – gravel + clay.	2	600
16742	7475	4450	soil(300) – gravel – lt brn clay + chips.	2	600
16743	7462.5	4450	soil(400) – gravel – lt brn/wh/org clay + chips.	12	925
16744	7450	4450	soil(500) – rocks + gravel – wh/gn clay + chips	40	900
16745	7437.5	4450	soil(400) – rock + gravel – gravel + clay.	<1	900
16746	7425	4450	soil(400) – gravel (2 holes)	<1	650
16747	7412.5	4450	soil(500) – gravel – gravel + clay	<1	1200
16748	7400	4450	soil(400) – gravel – lt brn/org clay + gravel/chips	2.	900
16749	NOT				
16750	USED.				

619061

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC-NEVADA

Project	CAPE SORELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 99.

NORTH BUTLER GRID.

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16751	8000	4550	brn clay – brn/yellow clay	<1	Sample depth 850 mm.
16752	7988.5	4550	gy soil (150) – lt brn clay – yellow/wh clay	1	650
16753	7975	4550	humus – brn soil – mottled clay	2	300
16754	7962.5	4550	humus – sandy gravel – choc brn/yell clay	1	400 ?
16755	7950	4550	gravel – brn mud – clay [creek bank]	<1	700.
16756	7937.5	4550	humus/gravel – brn clay – wh clay	<1	1000
16757	7925	4550	gravel (350) – lt brn clay	1	400
16758	7912.5	4550	gravel (350) – clay + brn-red chips	<1	400
16759	7900	4550	soil – gravel – mud	<1	450
16760	7887.5	4550	soak – mud – gn clay.	12	1000
16761	7875	4550	gravel (400) – solid rock.	<1	400
16762	7862.5	4550	lt gn – gy clay [creek]	8	700.
16763	7850	4550	humus – gy/gn clay	2	800
16764	7837.5	4550	mud (200) – [creek – swamp]	4	200 ?
16765	782.5	4550	soil – Q gravel – mud – [creek – swamp]	<1	300
16766	7812.5	4550	soil – gravel – lt brn/gy clay + chips	<1	900
16767	7800	4550	soak (50) – Q gravel	<1	?
16768	7787.5	4550	soil – gravel – light gy clay	<1	400
16769	7775	4550	soil (100) – gravel – brn/yellow clay + chips	6	1500
16770	7762.5	4550	soil (100) – gravel – lt clay – soled rock.	29	300
16771	7750	4550	soil (400) – gravel (800) – org clay + lt. chips	<1	950
16772	7737.5	4550	soil (450) – gravel – org clay + white chips	4	1200
16773	7725	4550	soil (500) – gravel – org clay + chips	<1	700
16774	7712.5	4550	soil (850) – gravel + rocks – org clay + chips	6	1300
16775	7700	4550	humus – org clay – lt brn clay + chips	<1	650

29067

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

PACIFIC–NEVADA

Project	CAPE STORELL	Sampler	GALBRAITH	Sample Type	SOIL	Laboratory	ANALABS	Sampling Period	SEP 99.

NORTH BUTLER GRID

Sample Number	Co-ordinates		Description	Assays	Comments
	N	E		Au(ppb)	
16776	7687.2	4550	humus(200) – lt brn clay + chips.	<1	Sample depth 550 mm
16777	7675	4550	humus(200) – lt brn clay + chips	<1	550.
16778	7662.5	4550	humus(250) – wh/lt brn clay + chips.	<1	500.
16779	7650	4550	humus(250) – wh clay + chips	<1	550
16780	7637.5	4550	humus(150) – gravel – lt brn clay	<1	650
16781	7625	4550	gravel – brn clay – [creek gully]	<1	650.
16782	7612.5	4550	humus(150) – gravel – brn clay	<1	600
* 16783	7587.5	4550	gravels – brn/gn clay [soak]	<1	1450
16784	7575	4550	gravel(500) – lt brn clay. [soak]	<1	750
16785	7562.5	4550	gravel(300) – lt brn clay + chips	<1	550
16786	7550	4550	gravel(600) – yellow/org clay + darker blebs + chips	10	900
16787	7537.5	4550	soil(500) – lt brn + wh clay + chips	<1	650
16788	7525	4550	soil(450) – lt brn clay + chips.	<1	650
16789	7512.5	4550	soil(450) – brn clay – lt brn clay.	<1	750
16790	7500	4550	soil(600) – lt/dk brn clay + chips.	<1	850
16791	7487.5	4550	soil(450) – lt brn/gn/gy clay – gravel	<1	650
16792	7475	4550	soil(450) – lt brn clay + chips	<1	700
16793	7462.5	4550	soil/mud(400) – brn clay + wh chips [soak]	<1	650
16794	7450	4550	soil(400) – brn clay – lt brn clay + wh chips	<1	700
16795	7437.5	4550	soil(850) – gravel – lt clay + chips	<1	1100
16796	7425	4550	soil(450) – gravel – lt gy clay + chips.	<1	650
16797	7412.5	4550	soil – gravel – gn clay – brn clay + gravel	<1	950
16798	7400	4550	soil(800) – wh/brn clay + chips.	<1	950
16799	NOT USED				
16800					

APPENDIX 3

Soil Sample Assay Results

677065

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU016867
Your reference : **128502**
Project code : Tasmania - Newnham
Date received : 15/09/99
Date reported : 04/10/99

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results : 16
Number of Samples : 369
First Sample : 16501
Last Sample : 16980

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 04/10/99
Facsimile / /
Disk Report / /

Preliminary Reports :
29/09/99 Report

Results to:

Results to:

Remarks :

Authorised by .....
~~On behalf~~ of:

Rob Chapman
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.

677066

ANALABS

Our reference : BU016867
Your reference : 128502
Project code : Tasmania - Newnham
Report date : 04/10/99
Report status : Final
Page : 1 of 16

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16501	7	13	16	0.6	<5	<10
16502	5	<10	<5	0.7	<5	<10
16503	<5	<10	6	0.6	<5	<10
16504	<5	<10	<5	0.8	<5	<10
16505	<5	<10	<5	1.0	<5	<10
16506	<5	<10	<5	0.7	<5	<10
16507	<5	<10	<5	0.6	<5	<10
16508	<5	14	<5	<0.5	<5	<10
16509	<5	<10	<5	1.3	<5	<10
16510	<5	12	<5	1.2	<5	<10
16511	9	<10	<5	0.7	<5	<10
16512	<5	<10	<5	<0.5	<5	<10
16513	39	11	5	<0.5	<5	<10
16514	71	16	<5	1.5	<5	14
16515	55	37	13	<0.5	<5	39
16516	50	<10	7	<0.5	80	<10
16517	115	26	153	0.8	<5	37
16518	187	25	157	0.7	<5	90
16519	95	16	41	<0.5	<5	65
16520	208	24	190	0.8	<5	82
16521	152	23	147	1.3	<5	67
16522	120	23	88	<0.5	<5	70
16523	160	24	96	0.9	6	105
16524	122	21	108	<0.5	<5	135
16525	181	25	176	<0.5	5	190
16526	51	24	166	1.0	<5	255
16527	114	27	254	0.6	<5	160
16528	128	130	324	0.9	<5	125
16529	99	37	206	0.9	<5	97
16530	111	28	90	0.6	<5	68
16531	56	21	90	1.1	<5	125
16532	106	17	109	<0.5	6	89
16533	137	15	32	0.9	<5	87
16534	49	16	90	<0.5	13	34
16535	88	17	30	<0.5	<5	60
16536	181	14	94	<0.5	<5	78
16537	140	14	52	<0.5	<5	57
16538	38	13	36	0.9	<5	87
16539	75	15	68	<0.5	<5	115
16540	37	<10	23	0.6	<5	50
16541	8	<10	<5	1.0	<5	16
16542	8	<10	7	0.8	<5	<10
16543	6	<10	<5	<0.5	<5	18
16544	6	<10	<5	<0.5	<5	14
16545	5	<10	16	0.7	<5	13
16546	9	<10	<5	<0.5	<5	13
16547	10	<10	5	<0.5	<5	17
16548	22	<10	<5	<0.5	<5	<10
16550	97	19	36	<0.5	5	56
16551	<5	<10	<5	<0.5	<5	<10
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

ANALABS

Our reference : BU016867
Your reference : **128502**
Project code : Tasmania - Newnham
Report date : 04/10/99
Report status : Final
Page : 2 of 16

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16552	<5	11	<5	<0.5	<5	<10
16553	5	<10	<5	<0.5	<5	<10
16554	<5	<10	<5	<0.5	<5	11
16555	7	<10	21	<0.5	<5	<10
16556	<5	10	9	<0.5	<5	<10
16557	6	<10	<5	<0.5	<5	<10
16558	<5	<10	<5	<0.5	<5	<10
16559	<5	<10	<5	<0.5	<5	<10
16560	5	<10	10	<0.5	<5	<10
16561	<5	<10	<5	1.0	<5	<10
16562	5	<10	<5	1.0	<5	<10
16563	6	<10	5	<0.5	<5	<10
16564	<5	<10	<5	1.0	<5	<10
16565	<5	<10	<5	0.6	<5	<10
16566	29	17	31	<0.5	<5	30
16567	109	23	130	0.9	<5	68
16568	124	15	41	1.0	<5	83
16569	134	16	69	<0.5	<5	60
16570	44	21	33	0.5	14	44
16571	315	22	114	1.2	<5	87
16572	77	14	89	0.7	<5	99
16573	44	27	45	0.6	<5	48
16574	106	30	47	<0.5	<5	80
16575	144	31	62	0.9	<5	180
16576	131	27	54	0.6	<5	115
16577	196	28	70	<0.5	<5	175
16578	100	25	44	0.5	6	185
16579	72	23	49	1.0	<5	94
16580	127	24	40	0.7	<5	84
16581	99	36	28	<0.5	6	46
16582	76	32	30	0.6	13	40
16583	93	37	59	<0.5	18	65
16584	102	26	65	1.0	<5	105
16585	121	38	77	<0.5	12	87
16586	63	32	42	1.3	<5	135
16587	88	37	49	0.7	<5	54
16588	83	14	32	<0.5	<5	165
16589	9	<10	8	0.7	<5	<10
16590	8	11	13	1.0	<5	<10
16591	<5	<10	<5	0.8	<5	<10
16592	5	<10	<5	<0.5	<5	<10
16593	5	<10	6	<0.5	<5	<10
16594	7	<10	375	<0.5	<5	<10
16595	10	<10	<5	<0.5	<5	<10
16596	8	<10	<5	<0.5	<5	<10
16597	5	<10	<5	<0.5	<5	11
16598	5	<10	45	<0.5	<5	<10
16601	<5	<10	94	<0.5	<5	<10
16602	<5	<10	11	0.8	<5	<10
16603	<5	<10	7	0.5	<5	<10
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

677068

ANALABS

Our reference : BU016867
Your reference : **128502**
Project code : Tasmania - Newnham
Report date : 04/10/99
Report status : Final
Page : 3 of 16

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16604	16	<10	<5	<0.5	17	<10
16605	<5	<10	<5	0.6	<5	<10
16606	<5	<10	17	<0.5	<5	<10
16607	<5	13	<5	<0.5	<5	11
16608	<5	<10	<5	<0.5	<5	<10
16609	<5	<10	<5	0.5	<5	<10
16610	<5	<10	<5	<0.5	<5	<10
16611	9	13	6	<0.5	<5	22
16612	8	<10	13	0.6	<5	<10
16613	5	<10	<5	0.7	<5	<10
16614	6	<10	<5	0.7	<5	<10
16615	15	19	<5	1.2	<5	24
16616	30	24	9	0.9	24	68
16617	21	18	9	<0.5	25	20
16618	49	17	84	<0.5	19	195
16619	121	85	40	<0.5	22	35
16620	62	14	17	<0.5	14	130
16621	67	21	27	<0.5	<5	47
16622	54	19	17	<0.5	<5	66
16623	49	11	<5	<0.5	<5	89
16624	100	17	79	<0.5	<5	88
16625	104	19	46	<0.5	<5	80
16626	132	16	46	0.6	<5	120
16627	87	18	30	0.5	<5	105
16628	56	29	9	<0.5	<5	88
16629	58	16	32	0.5	20	105
16630	172	32	63	<0.5	<5	205
16631	118	54	207	<0.5	<5	190
16632	202	31	145	0.5	<5	210
16633	122	35	255	<0.5	<5	265
16634	71	33	62	0.9	<5	105
16635	209	14	69	<0.5	8	130
16636	15	16	13	0.6	<5	19
16637	19	23	8	<0.5	<5	26
16638	37	18	31	<0.5	<5	82
16639	7	22	18	<0.5	<5	<10
16640	6	<10	9	<0.5	<5	11
16641	6	<10	34	<0.5	<5	<10
16642	7	<10	13	<0.5	<5	14
16643	6	<10	10	0.6	<5	<10
16644	7	<10	9	<0.5	<5	15
16645	15	20	17	<0.5	<5	37
16646	6	<10	8	0.5	<5	10
16647	6	<10	37	0.6	<5	<10
16648	5	15	18	<0.5	<5	<10
16651	7	<10	8	0.6	<5	12
16652	5	<10	8	0.6	<5	<10
16653	7	12	19	<0.5	<5	<10
16654	5	<10	17	0.6	<5	<10
16655	7	<10	21	<0.5	<5	<10
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

ANALABS

Our reference : BU016867
Your reference : **128502**
Project code : Tasmania - Newnham
Report date : 04/10/99
Report status : Final
Page : 4 of 16

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16656	<5	<10	10	<0.5	<5	<10
16657	<5	12	7	<0.5	<5	<10
16658	7	<10	15	<0.5	<5	<10
16659	<5	12	11	<0.5	13	<10
16660	7	<10	13	<0.5	<5	<10
16661	<5	<10	6	0.6	<5	<10
16662	6	<10	12	<0.5	<5	27
16663	9	10	19	<0.5	<5	11
16664	15	11	18	<0.5	<5	15
16665	5	<10	11	<0.5	<5	<10
16666	8	<10	8	<0.5	<5	22
16667	8	<10	11	<0.5	<5	78
16668	9	<10	14	0.5	<5	10
16669	9	<10	12	<0.5	<5	<10
16670	8	<10	9	<0.5	<5	<10
16671	<5	<10	7	<0.5	<5	<10
16672	9	<10	17	0.7	<5	12
16673	6	<10	12	<0.5	6	<10
16674	11	20	11	<0.5	58	25
16675	91	21	63	<0.5	18	94
16676	99	18	66	<0.5	6	120
16677	116	22	54	<0.5	<5	110
16678	85	27	98	<0.5	<5	120
16679	150	31	201	<0.5	<5	195
16680	89	35	64	0.6	<5	83
16681	131	34	120	<0.5	<5	165
16682	85	28	55	0.8	<5	87
16683	213	32	170	<0.5	<5	100
16684	235	24	156	<0.5	<5	140
16685	211	25	129	<0.5	<5	170
16686	212	30	57	<0.5	<5	160
16687	210	20	37	<0.5	<5	77
16688	89	22	144	<0.5	5	21
16689	87	25	21	<0.5	<5	45
16690	58	25	27	<0.5	<5	46
16691	8	<10	11	<0.5	<5	<10
16692	8	<10	10	<0.5	<5	<10
16693	7	<10	41	<0.5	<5	25
16694	13	<10	13	<0.5	<5	15
16695	11	<10	11	<0.5	<5	<10
16696	8	<10	8	<0.5	<5	12
16697	<5	<10	6	0.6	<5	<10
16698	13	11	21	<0.5	<5	11
16701	12	<10	12	<0.5	<5	15
16702	5	<10	6	<0.5	<5	<10
16703	8	<10	9	<0.5	<5	<10
16704	<5	<10	6	<0.5	<5	<10
16705	7	17	15	<0.5	<5	16
16706	7	13	9	<0.5	<5	<10
16707	6	<10	8	<0.5	<5	<10
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

677070

ANALABS

Our reference : BU016867
Your reference : **128502**
Project code : Tasmania - Newnham
Report date : 04/10/99
Report status : Final
Page : 5 of 16

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16708	<5	<10	6	<0.5	<5	<10
16709	11	12	35	<0.5	<5	22
16710	9	<10	14	<0.5	<5	<10
16711	12	11	55	<0.5	<5	41
16712	47	11	31	<0.5	<5	40
16713	12	<10	18	<0.5	9	13
16714	22	12	8	<0.5	<5	<10
16715	35	<10	16	<0.5	<5	<10
16716	25	<10	14	<0.5	<5	<10
16717	14	11	13	<0.5	<5	<10
16718	20	12	15	<0.5	<5	18
16719	12	11	14	<0.5	<5	24
16720	<5	<10	10	<0.5	<5	10
16721	23	<10	48	<0.5	<5	34
16722	13	<10	22	0.5	19	25
16723	9	<10	10	<0.5	<5	<10
16724	7	<10	16	<0.5	<5	<10
16725	6	<10	15	<0.5	<5	24
16726	44	16	37	<0.5	<5	26
16727	16	<10	12	<0.5	<5	11
16728	<5	10	<5	<0.5	<5	<10
16729	14	14	8	<0.5	8	13
16730	18	17	12	<0.5	11	20
16731	<5	<10	11	<0.5	<5	<10
16732	<5	<10	11	<0.5	<5	13
16733	7	12	11	<0.5	<5	48
16734	<5	11	9	<0.5	<5	29
16735	53	<10	21	<0.5	22	18
16736	5	16	9	<0.5	<5	<10
16737	9	<10	8	<0.5	<5	<10
16738	6	<10	9	<0.5	<5	16
16739	<5	13	26	<0.5	<5	82
16740	8	<10	23	<0.5	<5	16
16741	6	<10	10	<0.5	<5	14
16742	6	<10	8	<0.5	<5	<10
16743	12	<10	8	0.5	<5	37
16744	<5	17	10	<0.5	<5	<10
16745	19	<10	13	<0.5	<5	11
16746	<5	<10	15	0.6	<5	12
16747	8	<10	12	<0.5	<5	11
16748	<5	<10	8	<0.5	<5	14
16751	<5	<10	7	<0.5	<5	<10
16752	6	13	26	<0.5	10	16
16753	7	12	15	<0.5	13	13
16754	11	13	22	<0.5	<5	15
16755	7	<10	9	0.5	<5	<10
16756	12	<10	12	<0.5	<5	16
16757	11	<10	21	<0.5	<5	12
16758	7	<10	17	<0.5	<5	<10
16759	10	<10	11	<0.5	<5	<10
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16760	19	12	32	<0.5	<5	36
16761	6	<10	9	<0.5	<5	23
16762	16	11	25	<0.5	<5	19
16763	9	11	14	<0.5	<5	11
16764	15	19	31	<0.5	<5	22
16765	6	<10	8	0.5	<5	<10
16766	<5	<10	9	<0.5	<5	17
16767	16	17	53	<0.5	<5	41
16768	<5	<10	14	<0.5	<5	<10
16769	7	11	16	<0.5	12	<10
16770	11	43	10	<0.5	30	<10
16771	<5	10	11	<0.5	<5	<10
16772	<5	14	18	<0.5	<5	<10
16773	7	14	11	<0.5	<5	<10
16774	7	15	13	0.8	<5	<10
16775	8	<10	11	0.5	<5	13
16776	5	<10	11	<0.5	<5	11
16777	<5	<10	12	<0.5	<5	<10
16778	6	<10	12	0.5	<5	12
16779	9	<10	8	0.5	<5	<10
16780	<5	<10	9	<0.5	<5	<10
16781	7	<10	7	<0.5	<5	<10
16782	7	<10	9	<0.5	<5	14
16783	10	<10	10	<0.5	<5	<10
16784	<5	<10	8	0.8	<5	<10
16785	13	<10	10	0.7	<5	<10
16786	31	11	15	0.7	<5	13
16787	<5	<10	8	<0.5	<5	10
16788	<5	<10	8	<0.5	<5	<10
16789	<5	<10	8	<0.5	<5	<10
16790	5	<10	6	<0.5	<5	14
16791	<5	<10	7	<0.5	<5	<10
16792	<5	<10	13	<0.5	<5	10
16793	<5	<10	11	<0.5	<5	<10
16794	<5	<10	12	<0.5	<5	<10
16795	11	<10	17	<0.5	<5	<10
16796	<5	<10	6	<0.5	<5	<10
16797	10	<10	9	<0.5	<5	<10
16798	<5	<10	14	<0.5	<5	10
16901	<5	<10	8	<0.5	<5	<10
16902	7	<10	8	<0.5	<5	<10
16903	167	13	68	<0.5	34	99
16904	249	37	189	<0.5	<5	260
16905	201	31	230	<0.5	<5	185
16906	179	21	118	<0.5	<5	115
16907	50	17	33	<0.5	<5	49
16908	10	18	62	<0.5	<5	115
16909	147	25	143	<0.5	<5	90
16910	188	26	104	<0.5	13	58
16911	54	31	89	<0.5	<5	30
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

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Our reference : BU016867
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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16912	56	21	64	<0.5	<5	53
16913	6	<10	24	<0.5	<5	<10
16914	55	22	145	<0.5	<5	65
16915	34	16	155	<0.5	<5	330
16916	42	25	108	<0.5	<5	61
16917	16	15	103	<0.5	<5	97
16918	44	27	81	<0.5	<5	195
16919	74	44	347	<0.5	<5	350
16920	8	<10	10	<0.5	<5	<10
16921	<5	11	17	<0.5	<5	<10
16922	98	12	88	1.0	<5	110
16923	86	25	118	<0.5	<5	64
16924	8	<10	13	<0.5	<5	14
16925	30	17	31	<0.5	<5	31
16926	89	16	62	<0.5	<5	<10
16927	97	42	72	<0.5	<5	140
16928	<5	15	68	<0.5	<5	105
16929	<5	17	123	<0.5	<5	110
16930	<5	16	96	<0.5	<5	96
16931	6	<10	7	<0.5	<5	<10
16932	<5	<10	10	<0.5	<5	<10
16933	12	14	99	<0.5	<5	84
16934	<5	<10	26	<0.5	<5	<10
16935	67	12	40	<0.5	<5	59
16936	<5	<10	7	<0.5	<5	<10
16937	10	11	60	0.6	<5	96
16938	26	12	39	<0.5	<5	85
16939	<5	29	59	<0.5	<5	97
16940	104	20	76	<0.5	<5	165
16941	97	18	122	<0.5	<5	195
16942	74	17	17	<0.5	11	270
16943	8	<10	9	<0.5	<5	61
16944	<5	<10	12	<0.5	<5	<10
16945	11	16	11	<0.5	<5	23
16946	<5	<10	9	0.6	<5	<10
16947	88	14	310	1.2	<5	88
16948	75	11	106	0.5	<5	135
16949	34	<10	50	<0.5	<5	83
16950	<5	<10	68	<0.5	<5	110
16951	<5	20	59	<0.5	<5	145
16952	9	<10	9	<0.5	<5	<10
16953	203	22	27	<0.5	16	48
16954	87	12	50	<0.5	6	47
16955	20	17	36	<0.5	<5	69
16956	140	25	147	<0.5	<5	270
16957	82	15	108	<0.5	<5	115
16958	59	16	31	<0.5	<5	160
16959	137	16	132	<0.5	<5	85
16960	7	<10	11	<0.5	<5	<10
16961	162	18	79	<0.5	14	255
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	Ni
16962	121	12	90	<0.5	9	97
16963	45	15	72	0.6	<5	71
16964	52	14	63	<0.5	<5	140
16965	6	18	20	<0.5	<5	35
16966	95	11	149	<0.5	<5	485
16967	65	12	79	<0.5	<5	79
16968	40	12	19	<0.5	<5	71
16969	51	19	12	<0.5	21	24
16970	130	16	73	<0.5	<5	80
16971	55	19	67	<0.5	<5	82
16972	179	20	77	<0.5	<5	125
16973	84	33	311	<0.5	<5	190
16974	165	19	70	<0.5	<5	82
16975	27	16	15	<0.5	<5	<10
16976	20	32	63	0.5	45	<10
16977	33	<10	7	<0.5	27	<10
16978	17	16	46	<0.5	<5	50
16979	13	18	32	<0.5	10	31
16980	8	14	55	0.9	15	25
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	10

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

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Our reference : BU016867
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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16501	<1	--				
16502	<1	--				
16503	<1	--				
16504	<1	--				
16505	<1	--				
16506	<1	--				
16507	<1	--				
16508	<1	--				
16509	<1	--				
16510	16	15				
16511	<1	<1				
16512	<1	--				
16513	185	210				
16514	9	16				
16515	99	117				
16516	93	92				
16517	<1	--				
16518	<1	--				
16519	8	--				
16520	10	--				
16521	5	--				
16522	66	I.S.				
16523	14	13				
16524	30	20				
16525	18	13				
16526	<1	--				
16527	<1	--				
16528	<1	--				
16529	<1	--				
16530	<1	--				
16531	<1	--				
16532	<1	--				
16533	<1	--				
16534	<1	--				
16535	<1	<1				
16536	<1	<1				
16537	<1	<1				
16538	<1	--				
16539	3	--				
16540	4	--				
16541	<1	<1				
16542	<1	--				
16543	<1	--				
16544	<1	--				
16545	<1	--				
16546	<1	--				
16547	<1	--				
16548	<1	--				
16550	<1	--				
16551	<1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16552	<1	--				
16553	<1	--				
16554	<1	--				
16555	<1	<1				
16556	<1	--				
16557	<1	--				
16558	<1	--				
16559	<1	--				
16560	<1	--				
16561	<1	<1				
16562	<1	--				
16563	<1	--				
16564	<1	--				
16565	<1	--				
16566	<1	--				
16567	39	34				
16568	2	--				
16569	<1	--				
16570	<1	<1				
16571	<1	--				
16572	<1	--				
16573	13	--				
16574	8	--				
16575	38	46				
16576	36	34				
16577	237	203				
16578	9	--				
16579	8	--				
16580	22	24				
16581	8	14				
16582	38	50				
16583	<1	--				
16584	24	30				
16585	<1	--				
16586	<1	<1				
16587	<1	<1				
16588	<1	--				
16589	<1	--				
16590	<1	--				
16591	<1	<1				
16592	<1	--				
16593	<1	--				
16594	<1	--				
16595	<1	--				
16596	<1	--				
16597	<1	--				
16598	<1	--				
16601	<1	--				
16602	<1	--				
16603	<1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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ANALABS

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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16604	16	--				
16605	2	--				
16606	<1	--				
16607	2	--				
16608	12	--				
16609	8	--				
16610	4	--				
16611	18	--				
16612	4	7				
16613	4	--				
16614	2	--				
16615	8	--				
16616	72	76				
16617	14	20				
16618	58	58				
16619	42	--				
16620	56	54				
16621	6	--				
16622	8	--				
16623	8	--				
16624	4	--				
16625	4	--				
16626	12	--				
16627	22	--				
16628	152	146				
16629	74	72				
16630	18	--				
16631	16	--				
16632	4	--				
16633	2	--				
16634	<1	--				
16635	14	--				
16636	42	62				
16637	8	--				
16638	6	6				
16639	16	23				
16640	2	--				
16641	<1	--				
16642	2	--				
16643	<1	--				
16644	<1	--				
16645	10	12				
16646	1	2				
16647	<1	--				
16648	<1	--				
16651	<1	--				
16652	<1	--				
16653	<1	--				
16654	<1	--				
16655	28	26				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16656	<1	--				
16657	6	--				
16658	<1	<1				
16659	<1	--				
16660	2	--				
16661	2	--				
16662	<1	--				
16663	<1	--				
16664	<1	--				
16665	<1	<1				
16666	<1	--				
16667	<1	<1				
16668	<1	--				
16669	<1	--				
16670	<1	--				
16671	4	4				
16672	<1	--				
16673	2	--				
16674	24	24				
16675	14	--				
16676	6	--				
16677	4	--				
16678	2	--				
16679	2	--				
16680	4	--				
16681	4	2				
16682	2	--				
16683	2	--				
16684	4	--				
16685	4	--				
16686	2	--				
16687	2	--				
16688	<1	--				
16689	<1	--				
16690	2	2				
16691	<1	--				
16692	<1	<1				
16693	<1	--				
16694	2	--				
16695	<1	--				
16696	<1	--				
16697	<1	--				
16698	<1	--				
16701	6	--				
16702	<1	--				
16703	<1	--				
16704	<1	--				
16705	40	42				
16706	50	54				
16707	4	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16708	2	--				
16709	2	--				
16710	8	--				
16711	4	--				
16712	6	6				
16713	8	--				
16714	10	--				
16715	6	--				
16716	4	--				
16717	6	6				
16718	8	--				
16719	6	--				
16720	4	--				
16721	2	--				
16722	4	--				
16723	<1	--				
16724	<1	--				
16725	<1	2				
16726	12	--				
16727	8	--				
16728	18	14				
16729	10	--				
16730	14	--				
16731	2	--				
16732	2	--				
16733	20	20				
16734	4	--				
16735	40	38				
16736	26	24				
16737	<1	--				
16738	<1	--				
16739	4	--				
16740	8	--				
16741	2	--				
16742	2	<1				
16743	12	12				
16744	40	44				
16745	<1	--				
16746	<1	--				
16747	<1	--				
16748	2	--				
16751	<1	--				
16752	1	--				
16753	2	--				
16754	1	--				
16755	<1	1				
16756	<1	--				
16757	1	--				
16758	<1	--				
16759	<1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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Our reference : BU016867
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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16760	12	--				
16761	<1	--				
16762	8	--				
16763	2	--				
16764	4	2				
16765	<1	--				
16766	<1	--				
16767	<1	--				
16768	<1	--				
16769	6	6				
16770	29	32				
16771	<1	--				
16772	4	4				
16773	<1	--				
16774	6	--				
16775	<1	--				
16776	<1	--				
16777	<1	1				
16778	<1	--				
16779	<1	--				
16780	<1	--				
16781	<1	<1				
16782	<1	--				
16783	<1	--				
16784	<1	--				
16785	<1	--				
16786	10	12				
16787	<1	--				
16788	<1	<1				
16789	<1	--				
16790	<1	--				
16791	<1	--				
16792	<1	--				
16793	<1	--				
16794	<1	<1				
16795	<1	--				
16796	<1	--				
16797	<1	--				
16798	<1	--				
16901	<1	<1				
16902	<1	--				
16903	<1	--				
16904	4	5				
16905	6	6				
16906	<1	--				
16907	<1	--				
16908	<1	--				
16909	<1	--				
16910	3	3				
16911	3	5				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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Our reference : BU016867
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ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16912	<1	--				
16913	<1	--				
16914	<1	--				
16915	<1	--				
16916	<1	<1				
16917	<1	--				
16918	<1	<1				
16919	<1	--				
16920	<1	--				
16921	6	--				
16922	<1	--				
16923	<1	--				
16924	<1	--				
16925	<1	--				
16926	<1	--				
16927	<1	--				
16928	3	--				
16929	<1	--				
16930	<1	--				
16931	<1	--				
16932	<1	--				
16933	<1	--				
16934	3	3				
16935	5	3				
16936	<1	--				
16937	<1	--				
16938	<1	--				
16939	<1	--				
16940	<1	--				
16941	<1	--				
16942	95	92				
16943	44	32				
16944	7	6				
16945	<1	--				
16946	<1	--				
16947	<1	--				
16948	<1	--				
16949	<1	--				
16950	<1	--				
16951	<1	--				
16952	<1	--				
16953	<1	--				
16954	<1	<1				
16955	7	5				
16956	<1	--				
16957	<1	--				
16958	<1	--				
16959	<1	--				
16960	<1	--				
16961	21	20				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

677081

ANALABS

Our reference : BU016867
Your reference : **128502**
Project code : Tasmania - Newnham
Report date : 04/10/99
Report status : Final
Page : 16 of 16

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
16962	<1	--				
16963	<1	--				
16964	4	--				
16965	<1	--				
16966	<1	--				
16967	<1	--				
16968	<1	--				
16969	25	25				
16970	<1	<1				
16971	<1	<1				
16972	<1	--				
16973	<1	--				
16974	4	--				
16975	32	26				
16976	28	34				
16977	23	21				
16978	<1	--				
16979	<1	--				
16980	<1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

APPENDIX 4

Magnetic Survey Report Note

(Flagstaff)

677083

Flagstaff Geo-Consultants

Suite 2
337A Lennox Street
PO Box 2236
Richmond South
Victoria
Australia 3121

Tel: (03) 9421 1000
Fax: (03) 9421 1099
Email: nigelhungerford
@compuserve.com

Hugh Rutter	Geophysicist
Geof Fethers	Geologist
Nigel Hungerford	Geophysicist
Paul Hamlyn	Geologist
Michael Asten	Geophysicist
Ross Caughey	Geologist

6th October 1999

Mr. L. Newnham
Newnham Exploration & Mining Services
PO Box 132
Riverside Tas 7250

Dear Lindsay,

Re: Ground magnetics: West Bailey, North Butler

As requested by you, and on behalf of Pacific Nevada, I have processed and plotted the ground magnetic data recently acquired by Marker Exploration over the West Bailey and North Butler Grids.

The Marker crew took two GeoInstruments G856 proton precission magnometers to Tasmania in order to use one as a roving magnometer, and one as a base station magnometer. The intention was to record the earth's magnetic field frequently (every minute), so that accurate diurnal corrections could be made each day to the roving magnometer data. Unfortunately the base station magnometer failed to work on one day at each grid (possibly due to a faulty sesor, or sensor cable), and base station repeats with the single roving instrument were too infrequent and inconsistent to be used on those 2 days.

Rather than totally ignore the data on those days, the roving values were diurnally corrected using the previous day's base staton values. This is a reasonable procedure if the diurnal variations remain much the same from day to day. The diurnal variations for 3 of the 4 days surveying at North Butler are shown on the attached figure. It is evident that the variations are rather different between each day, so that the use of a previous day's base sation to correct roving data will clearly give some errors in the final grid. Nonetheless this procedure was followed in order not to waste data, and the final results are acceptable.

Images at 1:5000 and 1:2000 scales have been plotted. For each scale and for each prospect the following paremeters have been plotted:

1. Total Magnetic Intensity (TMI), with contours and profiles

2. TMI, Reduced to Pole, with IP (3 Point Phase) comtours. Assuming no magnetic remanence in the underlying rocks, the RTP process places the magnetic peak directly over the source so this is the preferable image to use.

At West Baylee, there is somewhat more detail evident than in the aeromag since the line spacing for the ground mag was 100 metres, whilst that for the (1984) aeromag was 250 metres. The strongly magnetic unit in the west of the grid is adjacent to a much less magnetic region composed of probable sediments or felsics over which the distinct IP anomaly occurs. The flat magnetics may indicate the presence of alteration (magnetite destruction). The IP has been has been commented on in a previous report.

At North Butler, the ground magnetic survey lines are north-south and more perpendicular to strike than those of the helimag survey (1998) which were flown WNW-ESE and are thus sub-parallel to strike in this area.

The strongly magnetic unit in the west of the grid clearly terminates at about 364100 E, although this is somewhat obscured by the noisy data that may be caused by surficial float derived from magnetic bedrock.

Two distinct SW-NE faults are evident on the RTP image. These faults are probably predominantly dip-slip (down to the SE) since there appears to be little evidence of lateral movement. The strong IP source is likely to be a lithological unit, such as a carbonaceous black shale, as discussed in the previous geophysical report on North Butler.

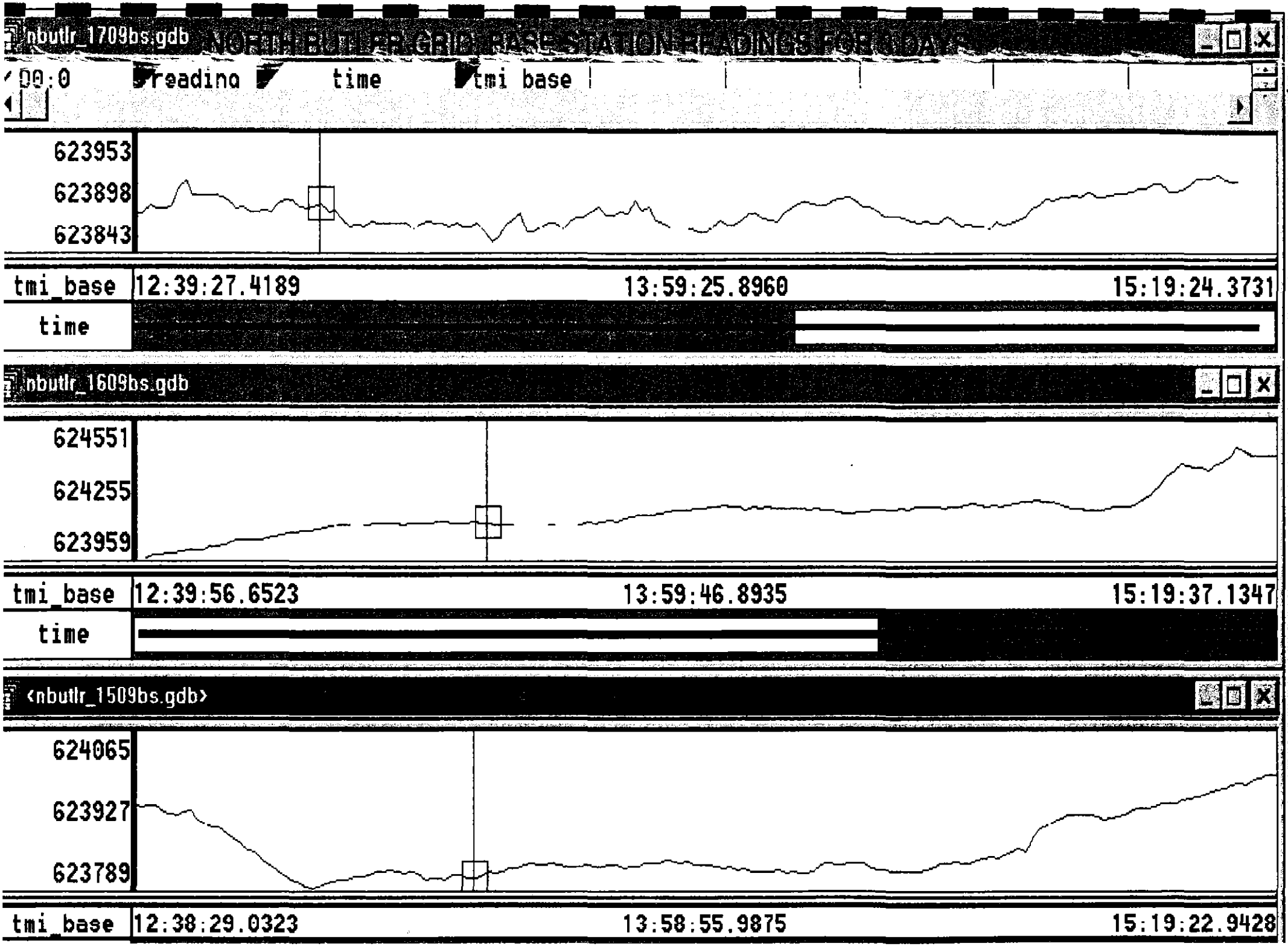
The anamolous gold from soil geochemistry has a vague spatial relationship to the faults, which may have been provided coduits for mineralisation, and are thus worthy of further investigation.

My invoice for this work is attatched. Please call me if you wish to discuss any of the results.

Best regards

Nigel

Nigel Hungerford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NORTH BUTLER GRID BASE STATION READINGS FOR 3 DAYS
00:0
reading
time
tmi base
623953
623898
623843
tmi_base
12:39:27.4189
13:59:25.8960
15:19:24.3731
time
nbutlr_1609bs.gdb
624551
624255
623959
tmi_base
12:39:56.6523
13:59:46.8935
15:19:37.1347
time
<nbutlr_1509bs.gdb>
624065
623927
623789
tmi_base
12:38:29.0323
13:58:55.9875
15:19:22.9428

APPENDIX 5

Drill Hole Logs

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 001

Commenced:	01 December 99
Completed:	12 December 99
Logged By:	L.A.Newnham
Drilled By:	DDT

Purpose of Hole

To test Au anomalous soil and rock chip sampling anomaly associated with a modest IP anomaly in a *sequence of shaley sediments and mafic volcanics* adjacent to a major NE trending structure.

Comments on Completion

the zone of most interest in this hole was a sequence of interbedded pyritic shales, siltstones and sandstones between 156.4-181.7 m;
the 4 m. interval between 164.0-168.0 m. averaged 0.13 g/t Au and approx. 35% pyrite;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5,307,540N	364290	2125	-50	35

Length (m)
335

Hole Size	
To (m)	Size
3	HW
71.2	HQ
335	NQ

Significant Core Loss Zones		
From	To	%Rec.
87.0	90.2	20
123.8	128.1	40
212.9	238.3	see log

Hole Condition on Completion

all casing removed; PVC placed in hole, but top slipped beneath collar;

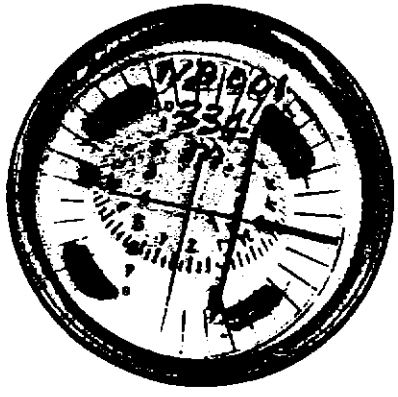
Summary of Results:

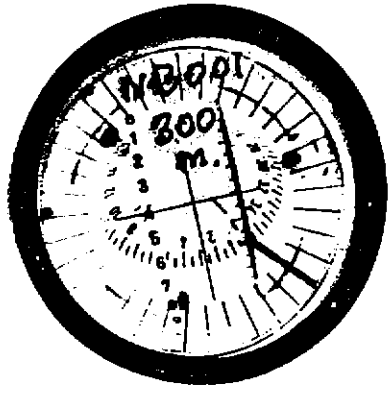
Depth		Recovery	Description	Assays							
From	To	%		Length	ppm Au	Cu	Pb	Zn	%S		
164.0	168.0	96	dark gray pyritic siltstones and shales	4.0	0.13	115	26	28	14.3		

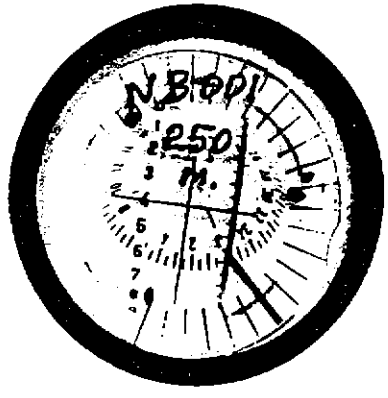
DOWN HOLE SURVEY DATA

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 001

Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-50	35					2125.00		0.00		5,307,540.0		364,290.0
0	-50	35	0	50	50	38.30	2086.70	32.14	32.14	26.33	5,307,566.3	18.43	364,308.4
100	-49	37	50	150	100	75.47	2011.23	65.61	97.75	52.40	5,307,618.7	39.48	364,347.9
200	-49	39	150	225	75	56.60	1954.62	49.20	146.95	38.24	5,307,657.0	30.97	364,378.9
250	-50	40	225	275	50	38.30	1916.32	32.14	179.09	24.62	5,307,681.6	20.66	364,399.5
300	-50	40	275	317.5	42.5	32.56	1883.76	27.32	206.41	20.93	5,307,702.5	17.56	364,417.1
335	-49	41	317.5	335	17.5	13.21	1870.56	11.48	217.89	8.66	5,307,711.2	7.53	364,424.6
335													







6772088

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	%S
.0.0	3.0	HW trione - no core;	3.0	3.7	60											
			3.7	7.2	55											
3.0	30.1	**DIORITE/minor ANDESITE:**	7.2	8.9	90				4.0	7.0	4	163	44	485	<5	<0.1
		severely weathered light green chloritic diorite	8.9	10.8	95											
		with minor units of darker gray volcanic (?)	10.8	13.9	100				10.0	11.0	<1	93	29	262	<5	<0.1
		andesite, with abundant dark mafic	13.9	15.1	70											
		phenocrysts;	15.1	15.9	90				14.0	15.0	2	89	52	207	<5	<0.1
		numerous thin <5 mm. irregular fractures or	15.9	17.0	100											
		veins filled with soft white clay (after	17.0	17.7	7				20.0	21.0	2	71	22	105	<5	<0.1
		carbonate); commonly also orange colored	17.7	18.4	50											
		suggesting pyritic carbonate veining;	18.4	19.5	95				24.0	25.0	<1	45	24	206	<5	<0.1
		several soft white clay sections;	19.5	20.9	100											
		only minor specs of pyrite;	20.9	22.0	80											
		core very broken along several joint sets;	22.0	22.7	65											
		fractures coated with orange clay and	22.7	27.0	100											
		manganese;	27.0	27.3	60											
30.1	37.0	**GABBRO:**	27.3	28.7	55				30.0	31.0	10	181	51	640	<5	<0.1
		coarser grained mafic intrusive; abundant	28.7	29.9	90											
		radiating and fibrous amphibole set in felsic	29.9	37.5	100				34.0	35.0	2	116	21	365	<5	<0.1
		groundmass;														
		green chloritic alteration common;														
		only minor pyrite;														
		core becoming more competent but still														
		strongly weathered along fractures and														
		jointing- often limonitic and clay filled;														
		principal joint directions 30 and 60 CA;														
37.0	48.4	**DIORITE - ANDESITE:**														
		darker gray fine grained mafic intrusive/	37.5	38.0	80				38.0	39.0	2	97	18	219	<5	<0.1
		volcanic less weathered than units above but	38.0	48.4	100											
		still fractured to 40.3 m;							41.0	42.0	3	<5	11	44	<5	<0.1
		below 40.3 m: increase in white carbonate							42.0	43.0	<1	11	14	65	<5	<0.1
		veining and pervasive alteration of mafic							43.0	44.0	<1	130	16	61	<5	<0.1
		intrusive;							44.0	45.0	<1	46	16	52	<5	0.4
		from 41.0 m., core is strongly speckeled with							45.0	46.0	<1	42	16	61	<5	0.7
		pervasive green alteration of felspars to light							46.0	47.0	<1	36	18	95	<5	0.2
		green clay;							47.0	48.5	<1	39	18	68	<5	0.2
		1-5 mm calcite common as irregular														
		anastomosing veins;														
		pyrite common in carbonate veins as small														
		crystalls and aggregats;														
		below 43 m: fine grained mafic intrusive, ...														

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	%S
37.0 continued.....	48.4	possibly andesitic, with abundant anastomosing network fine carbonate veins and large carbonate masses making up 50% of unit; **44.7-45.0 m:** 300 mm zone mafic rock brecciated by carbonate veining; 1-2% pyrite as coarse crystals and clusters; hematite common as large ascicular clusters in carbonate veins at 45.7 m; carbonate veins often leached and vuggy; core moderately competent; principal joint set 30 CA and usually coated with soft gray-white clay and carbonate;														
48.4	54.2	**SILTSTONE-MUDSTONE:** buff colored well bedded mudstone, interbedded with dark gray medium grained siltstone; network of abundant anastomosing white 1-5 mm carbonate veins; minor but coarse patches dark fibrous hematite in carbonate veins in places; BCA 50; 3-5% pyrite in carbonate veins and ocassionally as disseminated grains in the host rock; possible minor small spec of chalcopyrite; core moderately competent but commonly fractured along joint sets at low angle to core axis; carbonate and pyrite usually smeared along joints; sharp HW contact parallel to bedding;	48.4	55.6	100				48.5	50.0	13	41	<10	21	22	1.5
									50.0	52.0	7	16	10	48	23	1.9
									52.0	54.2	6	14	<10	27	<5	0.9
									54.2	56.0	<1	57	11	26	<5	0.1
54.2	67.5	**DOLERITE - ANDESITE:** light-dark gray fine-medium grained intrusive (dolerite) with pervasive soft dark spotting (chlorite); intermixed with darker fine grained volcanics, with common white carbonate spotting and widespread green chloritic alteration; 1-2 mm., ocassionally to 20 mm., white carbonate veins common; core moderately competent but several broken	55.6	58.8	100				57.0	58.0	1	169	<10	35	<5	0.1
			58.8	61.2	85				59.0	60.0	4	12	<10	22	<5	0.2
			61.2	67.5	100				61.0	62.0	3	11	<10	25	<5	0.3
									64.0	65.0	6	130	<10	22	<5	0.5
									65.0	66.0	5	13	<10	20	<5	0.3
									67.0	68.0	19	<5	<10	35	<5	0.1

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	%S
54.2	67.5	and clayey zones (eg) 61-62.6 m; **below 64.8 m:** brecciated /fragmental, more siliceous and gradational with nit below; 1% fine-medium grained pyrite often as grains rimming fragmental blocks, in fractures, and associated with carbonate veining; 64.3-65.0 m: 2-3% pyrite as aggregates and thin seams in fragmental rock;															
67.5	75.5	**VOLCANICLASTIC SEDIMENTS, minor GABBRO:** fine-medium grained, well bedded, light brown -medium gray sediments possibly with volcaniclastic component; weakly calcareous in places; BCA 60; thin carbonate veins either parallel to bedding or infilling fractures; 73.0-74.6 m: fine grained gabbro/dolerite with carbonate veining; 1% pervasive pyrite as disseminate euhedral grains, small clots and associated with carbonate veins; core competent; most fractures parallel bedding;	67.5	73.6	100				69.0	70.0	7	5	<10	42	<5	0.3
			73.6	75.6	90				72.0	73.0	2	37	<10	58	<5	0.2
75.5	77.3	**GRAPHITIC SHALE - SILTSTONE:** 75.5-76.9 m: black graphitic shale with 3-5% pyrite as pervasive fine grains and 1-2 mm veins parallel to bedding; BCA 60; 76.9-77.3 m: buff brown siltstone with abundant thin quartz-carbonate veining ; 1-2% pyrite as disseminations and thin veinlets; BCA 70; sharp, steep contact with fault below;	75.6	77.3	100				77.3	79.0	11	9	<10	23	<5	1.37
									79.0	80.0	18	15	<10	21	<5	2.5
									80.0	81.0	3	<5	<10	35	<5	0.3
77.3	90.8	**MAJOR FAULT:** **77.3-87.0 m:** irregular clasts of volcanic, dolerite and shale set in matrix of mixed white carbonate and dark gray black hematite(?);	77.3	79.2	90				81.0	82.0	4	7	<10	25	<5	1.36
			79.2	82.3	100				82.0	83.0	5	6	<10	28	<5	1.38
			82.3	84.8	80				83.0	84.0	13	7	<10	18	<5	1.31
			84.8	85.3	80				84.0	85.0	28	15	<10	29	11	1.88
			85.3	86.1	85				85.0	86.0	69	43	<10	41	20	5.5

F60129

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
77.3	90.8	2-3% pyrite, largely confined to the clasts as discrete euhedral grains, fractured and disrupted seams and blebs; minor pyrite in the matrix suggests mineralisation both pre and post dates faulting: **87.0-90.8 m:** clay, pug grit and sand and zones of very broken rock; poor recoveries;	86.1	87.0	90											
			87.0	87.8	45											
			87.8	89.0	10											
			89.0	90.2	10											
			90.2	90.8	100											
90.8	128.1	**GABBRO-DOLERITE-FRAGMENTAL VOLCANICS: strong carbonate-pyrite alteration:** **90.8-100.7 m:** light gray spotted volcanic, generally fractured and brecciated with resultant cataclastic texture; large lumps and fragments volcanic and dolerite set in dark gray-black calcareous matrix; late stage carbonate veins; minor diseminated pyrite and trace chalcopyrite associated with veins and as stringers in matrix; core competent; **100.7-108.0 m:** similar to unit above but appears more gabbroic and less brecciated; <1% pyrite as disseminated grains in gabbro; **108.0-114.8 m:** similar to 90.8 m....., but increase in dark patches (fibrous amphibole(?) very high carbonate component and late stage carbonate veining; disseminated pyrite and trace chalcopyrite associated with carbonate veins and to a lesser extent disseminated throughout the volcanic/dolerite; ground conditions good; **114.8-114.9 m:** thin bed of volcanoclastic sediment: BCA 70; **114.9-128.1:** strongly altered and brecciated volcanic (?); mottled light gray calcareous remnants and clasts set in dark green-black calcareous groundmass which is asicular in patches and has a very high carbonate component;	90.8	91.6	70				92.0	93.0	5	68	<10	141	<5	0.1
			91.6	115.8	100											
									94.0	95.0	3	115	22	108	<5	0.1
									96.0	97.0	2	75	28	215	<5	<0.1
									98.0	99.0	6	110	26	149	<5	<0.1
									100.0	101.0	4	13	28	300	<5	<0.1
									103.0	104.0	3	79	24	301	<5	<0.1
									106.0	107.0	1	12	<10	226	<5	<0.1
									108.0	109.0	2	350	<10	185	<5	0.5
									109.0	110.0	<1	269	20	268	<5	0.2
									110.0	111.0	2	51	<10	185	<5	<0.1
									111.0	112.0	1	103	22	122	<5	<0.1
									113.0	114.0	3	103	28	144	<5	0.3
									115.0	116.0	4	413	20	120	<5	0.3
									116.0	117.0	3	112	<10	86	<5	0.1
			115.8	118.2	90				117.0	118.0	5	149	<10	97	<5	0.2
			118.2	119.4	100				118.0	119.0	2	59	22	90	<5	0.2
			119.4	120.5	90				119.0	120.0	<1	162	<10	89	<5	0.2
			120.5	123.8	100				120.0	121.0	3	122	<10	95	<5	0.1
			123.8	124.4	65				121.0	122.0	4	129	<10	135	<5	<0.1
			124.4	126.5	25				122.0	123.0	<1	61	<10	119	<5	0.1
			126.5	128.1	20				123.0	124.0	5	103	<10	94	<5	0.2

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	ppb Au	ppm Cu	Pb	Zn	As	% S
90.8 continued.....	128.1	1-10 mm. random carbonate veins common; pyrite patches, blebs and stringers, associated with minor blebs of chalcopyrite, usually in carbonate veins; **note:** new HQ hole commenced at 123 m., because of problems with NQ hole further down; 124.0-128.0 m., high core losses due to lipping operation with new hole;														
128.1	130.2	**CATACLASITE/ BRECCIA:** pink-brown clasts to 20 mm. set in dark green-gray chloritic and calcareous sheared groundmass; minor thin carbonate veining with associated pyrite; minor pyrite disseminated in groundmass; core moderately competent;	128.1	130.2	100				128.1	129.0	1	120	<10	91	<5	0.1
									129.0	130.0	<1	145	<10	75	<5	0.1
130.2	133.0	**VOLCANICLASTIC (?) SEDIMENT:** dark gray well bedded siltstone, possibly with a volcaniclastic component; BCA 50; 1-10 mm. white carbonate veins common; pyrite abundant in carbonate veins but only minor in siltstone; conformable and gradational with units above and below;	130.2	133.0	100				131.0	132.0	4	83	<10	64	<5	0.5
133.0	141.0	**ALTERED VOLCANICS and CATACLASTIC VOLCANICS:** massive dark gray calcareous volcanics with overall cataclastic appearance; similar to 108 m.....; large irregular and rounded clasts set in very dark gray groundmass of hematite ? or amphibole? carbonate and quartz-carbonate common as veins and irregular masses up to 20 mm. 0.5-1% pyrite disseminated in clasts and within carbonate veins and masses; core competent; principal fracture direction 50 CA; grades into.....	133.0	141.0	100				134.0	135.0	6	174	<10	67	<5	0.6
									137.0	138.0	2	131	<10	76	<5	0.4
									139.0	140.0	<1	100	<10	50	<5	0.5

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	%S
141.0	145.1	**VOLCANICLASTIC (?) SEDIMENTS:** well bedded gray-dark gray volcaniclastic sediments; abundant volcanic and sedimentary clasts set in generally medium-coarse grained groundmass; BCA 50; white carbonate common as irregular 1-20 mm veins and masses; graded bedding suggests unit right way up; 0.5-1% pyrite in clasts and thin discontinuous seams parallel to bedding; also disseminate within carbonate veins and masses; core competent with most fractures parallel to bedding;grades into unit below;	141.0	145.1	100				141.0	142.0	3	32	<10	60	<5	<0.1
									143.0	144.0	1	78	<10	82	<5	<0.1
145.1	156.3	**SILTSTONE-SHALE, minor volcaniclastic component, pyritic in parts:** dark-dark gray, fine-medium grained siltstone with dark gray shale bands and buff colored tuffaceous (?) units; often brecciated and extensively carbonate veined; pyrite common throughout, being abundant in some intervals; **145.1-146.3 m:** well bedded siltstone; BCA 45-50; minor pyrite; **146.3-147.3 m:** brecciated unit with calcareous matrix and abundant carbonate veining; graphitic broken shale bands at base; abundant pyrite in matrix; **147.3-148.7 m:** light brown- buff colored fine grained volcaniclastic (?) sediment; disrupted and brecciated in places by large quartz-carbonate masses and veins; pyrite common along thin fractures and in quartz-carbonate; **148.7-154.7 m:** dark gray-black fine grained siltstone and shale; brecciated and disrupted by carbonate and quartz-carbonate veining; BCA 50; 3-5% pyrite abundant as large clots and	145.1	146.0	100				145.0	146.0	13	32	<10	18	<5	0.1
			146.0	148.4	90				146.0	147.0	6	<5	<10	18	<5	1
			148.4	150.2	100				147.0	148.0	25	11	<10	18	<5	2.8
			150.2	152.0	95				148.0	149.0	4	<5	<10	22	<5	1
			152.0	156.3	100				149.0	150.0	18	31	<10	32	17	3.3
									150.0	151.0	16	21	<10	26	<5	2.5
									151.0	152.0	14	16	<10	18	<5	2
									152.0	153.0	7	13	<10	19	17	2.2
									153.0	154.0	6	7	<10	13	22	0.9
									154.0	155.0	16	59	<10	27	<5	4.4
									155.0	156.3	33	103	<10	24	<5	7.4

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	%S
145.1 continued.....	156.3	seams parallel to bedding and associated with carbonate matrix as seams and aggregates; very broken in places; **154.7-156.3 m:** finely bedded buff green-yellowish sediments; BCA 55-60; minor disruptive carbonate veining; 5-10% pyrite as conformable seams of fine grains, clots and aggregates;also associated with carbonate veins; core competent with most fractures parallel to bedding;														
156.3	156.4	**FAULT/PUG:** 100 mm. black sandy pyritic pug zone;	156.3	156.4	100											
156.4	181.7	**SILTSTONE-SHALE-SANDSTONE, silicified and very pyritic:** package of thinly bedded siltstone, shale and sandstone; minor carbonaceous shale, variably carbonate veined; narrow silicified intervals; BCA 60-70; 5-10% pyrite overall, but semi-massive over thin bands; core moderately competent but some broken zones; **156.4-158.5 m:** light gray calcareous sandstone; abundant carbonate veins and large masses which have resulted in fragmentation and brecciation of host rock; some core loss; minor coarse pyrite disseminated in sandstone and associated carbonate; core very broken; **158.5-164.0 m:** black graphitic shales with minor sandstone; pyrite common parallel to bedding as thin seams and disseminations; very broken; **164.0-172.9 m:** dark gray siltstone-shale-minor sandstone; carbonate veining and irregular masses.....	156.4	157.7	100				156.4	158.0	7	14	<10	18	12	1.2
			157.7	158.5	50				158.0	159.0	19	16	<10	14	<5	3.4
			158.5	159.5	60				159.0	160.0	59	51	<10	28	20	6.6
			159.5	160.4	80				160.0	161.0	26	19	<10	26	<5	2.7
			160.4	162.5	35				161.0	162.0	48	41	<10	31	14	5
			162.5	163.4	80				162.0	163.0	61	55	<10	26	<5	6.2
			163.4	164.0	10				163.0	164.0	21	16	<10	16	<5	2.1
			164.0	164.5	90				164.0	165.0	185	155	36	20	29	15.5
			164.5	165.4	90				165.0	166.0	109	81	22	17	<5	15.1
			165.4	181.7	100				166.0	167.0	53	46	<10	56	<5	7.9
									167.0	168.0	176	180	42	21	30	18.7
									168.0	169.0	83	73	<10	17	16	8.7
									169.0	170.0	42	45	<10	21	<5	6.6
									170.0	171.0	93	174	40	20	27	13.1
									171.0	172.0	60	47	<10	23	10	5.5
									172.0	173.0	86	69	<10	19	<5	8.9
									173.0	174.0	22	29	<10	15	<5	5.2
									174.0	175.0	13	29	<10	16	<5	6.8
									175.0	176.0	4	18	<10	18	<5	6.3
									176.0	177.0	5	20	<10	25	<5	1.5
									177.0	178.0	<1	<5	<10	19	<5	0.9
									178.0	179.0	9	23	<10	<5	<5	4.4
									179.0	180.0	14	81	<10	<5	<5	11.4
									180.0	181.7	14	31	<10	6	<5	3.2

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	%S
156.4 continued.....	181.7	abundant near top of unit but deacreasing down unit; feature of unit is abundance of pyrite, principally as bands and seams to 10 mm. wide parallel to bedding, and pervasively disseminated in sediments; lesser fine euhedral grains and clusters within carbonate veins; overall 5-10% pyrite but locally 20-30%; core moderately competent but joint sets 20 and 30 CA result in some broken zones; **172.9-181.7 m:** similar to above but paler in color and more silicified; some sections strongly silicified; 10-15% pyrite; core moderately competent;															
181.7	194.0	**CARBONACEOUS SHALE-minor sandstone, pyritic:** black carbonaceous-graphitic shale with minor interbeds of light gray medium-coarse grained calcareous sandstone; sandstone beds are cut by abundant thin carbonate veins; BCA 60-65; 185.0-186.0 m: broken, puggy brecciated zone-possible small fault; 5-10% pyrite overall, as 10 mm. seams, disseminated bands parallel to bedding, pervasive disseminated grains and associated with carbonate veining; shale sections very broken, especially along graphitic bedding planes; sandstone beds less broken;	181.7 185.2 186.0 187.7	185.2 186.0 187.7 194.0	100 75 90 100				181.7 183.6 186.0 187.5 191.0 193.0 195.0	182.6 185.2 187.5 189.0 192.0 194.0 196.0	34 17 6 46 43 17 14	44 17 13 34 23 17 36	<10 <10 <50 <50 <50 <50 <50	35 9 45 39 37 34 36	13 <5 <5 <5 <5 <5 <5	2.9 1.9 0.7 4 3.2 2.9 0.6
194.0	208.8	**QUARTZITE:** light gray, medium-coarse grained quartzite; minor darker siltstone beds; minor quartz-carbonate veins; BCA 70 in siltstone beds; 3-5% pyrite as pervasive disseminated grains, along fracture surfaces, rimming pebble like fragments and concentrated in seams parallel	194.0 199.0 199.7 201.9 203.0 204.6 205.9 208.5	199.0 199.7 201.9 203.0 204.6 205.9 208.5 208.8	100 20 100 85 60 70 100 30				197.0 200.0 201.0 206.0 207.0	198.0 201.0 202.0 207.0 208.0	20 24 29 8 9	8 8 18 <5 5	<50 <50 <50 <50 <50	35 33 37 34 32	<5 <5 <5 <5 <5	0.8 1.2 2.5 0.7 1

960129

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
194.0 continued.....	208.8	to bedding; core brittle and broken, rubbly in places; several low angled joint sets; reduced to NQ at 203 m;														
208.8	212.5	**BLACK SHALE and GRAY SILTSTONE:** finely bedded black shale narrow beds of medium-coarse grained sandstone; BCA 80-90; 5-10% pyrite disseminated and in thin semi-massive and massive 1-5 mm. seams parallel to bedding; minor carbonate veining with euhedral pyrite; core very broken parallel to bedding and by several joint sets, one of which is parallel to CA:	208.8 209.3 210.7 211.7	209.3 210.7 211.7 212.9	80 95 100 85				209.3	210.7	10	13	<50	34	<5	2.55
212.5	238.0	**MAJOR FAULT ZONE: significant core loss:** zone of pug, clays, sand, blocks silicified quartzite, quartz bands and massive pyrite sections; silicified bands porous and weak, separated by pug and sand; 3-5% pyrite as thin seams in solid rock and disseminated in clasts; clay commonly pyritic; significant core loss in places; drillers report rods would fall considerable distances when un-chucked; **233.9-234.2 m:** band massive pyrite, minor quartz; **237.6 m:** lumps massive pyrite and pyritic sand- possible cavity filling;	212.9 214.4 215.3 218.8 220.5 222.6 223.7 225.6 226.0 229.0 234.1 236.9 237.6	214.4 215.3 218.8 220.5 222.6 223.7 225.6 226.0 229.0 234.1 236.9 237.6 238.3	40 80 40 30 30 65 60 100 45 15 15 60 60				212.9 215.3 218.8 222.6 223.7 225.6 229.0 234.1 236.9	215.3 218.8 222.6 223.7 225.6 229.0 234.0 236.9 238.3	18 33 24 45 19 16 4 3 1	7 18 22 19 11 <5 51 <5 6	<50 <50 <50 <50 <50 <50 <50 <50 <50	38 34 37 34 31 33 38 57 49	<5 <5 <5 <5 <5 <5 <5 <5 <5	4.15 7.3 6.3 7 7.9 3.7 >10.0 >10.0 6.9
238.0	254.5	**FAULT ZONE - remnant quartzite, pyritic:** zone of light gray medium-coarse grained quartzite bands, highly contorted and brecciated in places; alternating with sand, pug, and siliceous breccias; possibly part of the major fault zone above; **238.0-244.0 m:** light gray medium-coarse grained quartzite; white carbonate abundant as veins and irregular masses; several pug seams and	238.3 239.7 245.0 246.2 248.2 250.6 253.6	239.7 245.0 246.2 248.2 250.6 253.6 255.0	90 100 75 100 80 80 100				238.3 241.0 243.0 245.0 246.2 247.4	240.0 242.0 244.0 246.2 247.4 248.8	2 1 5 <1 <1 5	5 10 8 <5 5 <5	<50 <50 <50 <50 <50 <50	38 43 42 44 28 40	<5 <5 <5 <5 <5 <10	2.4 2.2 1.4 3.8 0.9 1.8

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
238.0	254.5	vuggy in places;							250.0	251.0	2	7	<50	42	<10	1.8
continued.....		**244.0-248.2 m:** distorted quartzite blocks, sand, pug and rubble;							253.0	254.5	4	<5	<50	48	<10	3.2
		248.2-253.0 m: pyritic sandstone with abundant quartz-carbonate and carbonate veining containing minor pyrite;														
		253.0-254.5 m: lumps of pyritic quartz, clay, rubble and brecciated quartzite;														
254.5	281.4	**SILTSTONE, CALCAREOUS SANDSTONE-GRITS, possible volcaniclastic component:**	255.0	258.2	100				256.0	257.8	5	7	<50	46	<10	3.4
		mixed sequence light gray pyritic siltstone	258.2	259.2	90											
		interbedded with coarse sandstone - grits	259.2	281.0	100				259.3	260.5	4	8	<50	43	<10	3.5
		with calcareous matrix; narrow breccia zones;							260.5	262.0	2	5	<50	43	<10	2.4
		possible medium-coarse grained volcaniclastic														
		sediments;							265.0	266.0	7	17	<50	36	<10	1.9
		carbonate veining common with 3-5% pyrite,							266.0	267.0	2	5	<50	46	<10	1.5
		locally higher;														
		254.5-260.8 m: well bedded light brown-light							268.0	269.3	3	<5	<50	40	<10	1.0
		gray siltstone with interbeds medium-coarse														
		grained calcareous sandstone;							272.0	273.0	4	6	<50	40	<10	2.6
		BCA 50-60;														
		abundant irregular carbonate veining, often							274.5	276.0	2	<5	<50	40	<10	1.1
		parallel to bedding but also as large irregular							276.0	277.0	<1	<5	<50	41	<10	1.4
		masses;														
		3-5% pyrite as thin bedding parallel seams,							278.0	280.0	4	5	<50	42	<10	2.5
		intilling fractures, pervasive disseminated														
		grains ans associated with carbonate veining;														
		core mixture of moderately competent ground														
		and very broken rubbly intervals;														
		260.8-266.1 m: as above but with greater														
		proportion of grits and calcareous sandstone;														
		possible volcaniclastic component;														
		266.1-270.8 m: as above but with several														
		200-400 mm. breccia zones with carbonate														
		cement;														
		270.8-280.5 m: interbedded light brown-light														
		gray siltstone and calcareous sandstone:														
		BCA 40-50, increasing to 50 near bae of unit;														
		abundant anastomosing white carbonate														
		veins;														
		3-5% pyrite but 5-10% below 274.5 m., as														
		thin seams along bedding planes, associated..														

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
254.5	281.4	with carbonate veins and pervasively disseminated; grades into unit below.....														
281.4	335.0	**COARSE DEBRIS FLOW:** clasts of various sedimentary and volcanic origin, from fine grained to 50 mm., set in a highly calcareous matrix; minor sedimentary beds; notable absence of carbonate veins; 3-5% pervasive pyrite as fine-medium grains and aggregates, in both the groundmass and clasts; **281.8-283.1 m:** gray pyritic pug and cemented grits; significant core loss; **283.1-299.5 m:** coarse grained grit with calcareous groundmass; several <1 mm. carbonate veins; 3-5% pervasive disseminated pyrite; ground conditions excellent; core decomposed over several narrow intervals to soft sandy material; **299.5-311.8 m:** mixed light gray gritty quartzite and light brown fine grained siltstone and coarse debris material; abundant 1-2 mm carbonate veins; BCA 45; <1% disseminated pyrite in finer grained gritty sections but 3-5% disseminated in coarser sintervals; finer sections are vuggy (water leached) but coarser sections more competent; **311.8-335.0 m:** coarse debris flow; light gray matrix is moderately calcareous; 3-5% pyrite, locally up to 10%, as fine-medium disseminated grains and coarse aggregates; from 311.8-322.8 m., clast sizes are very large, up to 50-75 mm., and accompanied by abundant fine anastomosing carbonate veins; below 322.8 m., clast sizes are generally < 20 mm., but ocassionally up to 50mm; only minor carbonate veining;	281.0	283.1	45				283.1	284.0	<1	11	<50	58	<10	3.9
			283.1	298.6	100											
			298.6	299.5	45				285.0	286.0	<1	<5	<50	58	<10	4.3
			299.5	301.8	100											
			301.8	302.6	50				287.0	288.0	6	8	<50	53	<10	2.5
			302.6	335.0	100											
									289.0	290.0	4	11	<50	40	<10	2.8
									291.0	292.0	4	<5	<50	61	<10	1.5
									293.0	294.0	3	11	<50	70	<10	2.8
									295.0	296.0	<1	13	<50	51	<10	3.9
									297.0	298.0	6	86	<50	42	<10	3.4
									300.0	301.0	2	5	<50	59	<10	1.5
									303.0	304.0	4	6	<50	113	<10	1.7
									305.0	306.0	1	<5	<50	45	<10	0.3
									307.0	308.0	1	<5	<50	45	<10	0.3
									309.0	310.0	3	6	<50	58	<5	1.3
									311.8	313.0	7	35	<50	56	<5	3.2
									314.0	315.0	2	23	<50	66	<5	1.2
									316.6	318.0	5	<5	<50	64	<5	1
									319.0	320.0	1	6	<50	55	<5	1.1
									321.0	322.0	4	10	<50	40	<5	1.5

COMPANY: Pacific-Nevada
PROJECT: Cape Sorell
HOLE NUMBER: NB 001

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
281.4 continued.....	335.0	2-3% pervasive disseminated pyrite; ground conditions excellent; ocassional soft sandy zones where carbonate matrix may have been leached; **END OF HOLE**							323.0	324.0	<1	15	<50	56	<5	2.5
									325.0	326.0	4	10	<50	64	<5	2.6
									327.0	328.0	3	9	<50	63	<5	2.4
									329.0	330.0	1	8	<50	56	<5	1.7
									331.0	332.0	7	9	<50	55	<5	2
									333.0	334.0	2	33	<50	57	<5	2.5
									334.0	335.0	3	21	<50	56	<5	2.5

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 002

Commenced:	01 December 99
Completed:	10 December 99
Logged By:	L.A.Newnham
Drilled By:	DDT

Purpose of Hole
to test a strong coincident IP and geochemical anomaly in a sequence of sediments and volcanics adjacent to a major NE trending structure cutting the Cape Sorell Peninsula;

Comments on Completion
drill hole intersected a sequence of mafic volcanics overlying a sequence of pyritic sediments including strongly pyritic and graphitic black shales; the only gold of any significance was a 3.0 m section of pyritic siltstones from 218.0-221.0 m., which assayed 0.1 g/t Au;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5307670	364180	2105	-50	0

Length (m)
262.5

Hole Size	
To (m)	**Size**
3	HW
101.3	HQ
262.5	NQ

Significant Core Loss Zones		
From	**To**	**%Rec.**
several	zones	
		see log

Hole Condition on Completion
all casing and rods removed from hole

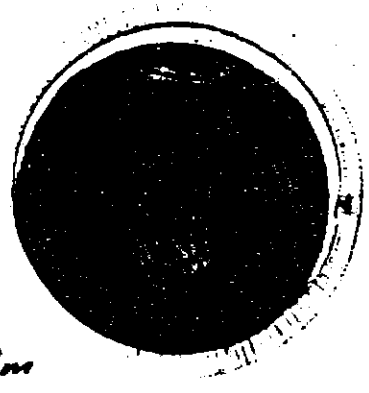
Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	ppm Au	Cu	Pb	Zn	%S		
218.0	221.0	100	pyritic siltstone-sandstone	3.0	0.10	204	61	27	>10		

DOWN HOLE SURVEY DATA

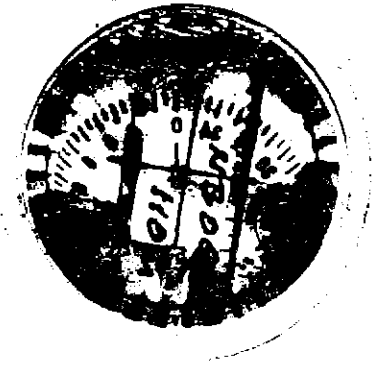
COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 002

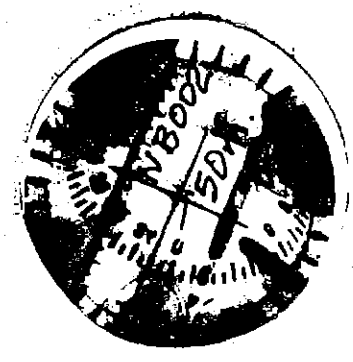
Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-50	0					2105.00		0.00		5,307,670.0		364,180.0
0	-50	0	0	25	25	19.15	2085.85	16.07	16.07	16.07	5,307,686.1	0.00	364,180.0
50	-49	2	25	80	55	41.51	2044.34	36.08	52.15	36.06	5,307,722.1	1.26	364,181.3
110	-48	3	80	132	52	38.64	2005.70	34.79	86.95	34.75	5,307,756.9	1.82	364,183.1
154	-48	3	132	181	49	36.41	1969.28	32.79	119.74	32.74	5,307,789.6	1.72	364,184.8
208	-47	8	181	229	48	35.10	1934.18	32.74	152.47	32.42	5,307,822.0	4.56	364,189.4
250	-47	11	229	256.25	27.25	19.93	1914.25	18.58	171.06	18.24	5,307,840.3	3.55	364,192.9
262.5	-47	7	256.25	262.5	6.25	4.57	1909.68	4.26	175.32	4.23	5,307,844.5	0.52	364,193.4
262.5													



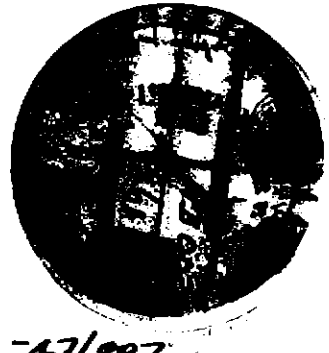
208m
read as -47/008

154m.
read as -48/003

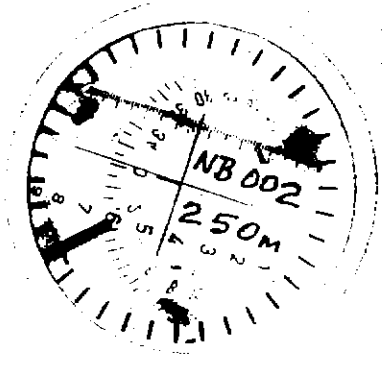




Films of poor quality
but originals readable.



261m.
read as -47/007



COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 002

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
0.0	3.0	HW tricone, no core;	0.0	3.0	0											
3.0	19.4	**DOLERITE or GABBRO:** very weathered light brown-green medium grained gabbro or dolerite; core very broken and weathere with some core loss in clayey sections;	3.0	4.6	95				5.0	6.0	1	92	30	153	<5	<0.1
			4.6	7.6	100											
			7.6	10.6	70				8.0	9.0	<1	83	31	163	<5	<0.1
			10.6	12.1	90											
			12.1	13.0	75				13.0	14.0	<1	30	27	220	<5	<0.1
			13.0	15.8	60											
19.4	31.0	**CATACLASITE (fault breccia ?):** possibly a major brittle (near surface) fault zone; clast sizes highly variable from branule through to boulder size; generally angular and less commonly sub-rounded; clast types fine grained sandstone and possibly amagdaloidal basalts;	15.8	17.0	90				19.0	20.0	<1	151	16	129	<5	<0.1
			17.0	19.4	100											
									23.0	24.0	<1	132	19	60	<5	<0.1
			19.4	20.6	100											
			20.6	23.6	95				28.0	29.0	1	84	16	64	<5	<0.1
			23.6	25.6	90											
			25.6	27.1	85				32.0	33.0	<1	<5	13	61	<5	<0.1
31.0	47.0	**BASALTIC COBBLE BRECCIA:** variable sized clasts of amagdaloidal basalt and siliceous basaltic (?) clasts set in dark fine grained groundmass; clasts angular to sub rounded; base of weathering approx. 32 m;	27.1	27.9	80											
			27.9	28.6	95				35.0	36.0	<1	82	18	64	<5	<0.1
			28.6	29.1	90											
			29.1	29.6	50				38.0	39.0	<1	94	14	68	<5	<0.1
			29.6	31.2	100											
									41.0	42.0	2	225	14	63	<5	<0.1
			31.2	32.7	60											
47.0	69.0	**VOLCANICLASTIC SANDSTONE and GRANULAR BRECCIA INTERBEDS:** distal volcaniclastic (basaltic) sandstone and lithic sandstone; interbedded polymictic breccias; **below 53.5 m:** general increase in volcaniclastic siltstone and sandstone component; BCA 70; minor pyrite often rimming lithic fragments and as selvedges along thin carbonate veins; graded bedding suggests facing up hole; **below 63.3 m:** volcanic component decreases; light brown-gray well bedded siltstone and sandstone; small displacement of beds along microfaults and joint sets; core moderately competent to 62.5 m., then very broken to 66.3 m; BCA 65-70;	32.7	47.0	100				44.0	45.0	<1	46	20	90	<5	<0.1
			47.0	69.0	100				47.0	48.0	4	111	17	90	<5	0.2
									50.0	51.0	2	90	19	84	<5	0.2
									54.0	55.0	4	106	14	102	<5	<0.1
									57.0	58.0	3	67	14	77	<5	<0.1
									60.0	61.0	6	105	15	84	<5	<0.1
									63.0	64.0	<1	74	11	92	<5	<0.1
									66.0	67.0	1	112	15	102	<5	<0.1

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 002

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
69.0	77.2	**GABBRO, minor basalt:** dark gray medium grained gabbroic rock with minor basaltic lava component from 69.0-70.0 m;	69.0	77.2	100				69.0	70.0	3	129	22	94	<5	0.4
									73.0	74.0	<1	118	20	123	<5	0.1
									75.0	77.0	<1	82	19	137	10	0.3
77.2	82.2	**VOLCANICLASTIC SEDIMENTS:** finely bedded light gray volcanoclastic siltstone with increasing component of dark gray siltstone towards base; BCA 80-85; 2-3% pyrite as finely disseminated grains, especially in shaley beds and infilling fine joints and fractures, and within thin irregular puggy seams cross-cutting bedding; core moderately competent but still strongly fractured parallel to bedding; principal joint sets 30 and 45 CA;	77.2	82.2	100				79.0	80.0	3	56	12	93	7	0.1
									81.0	82.2	<1	21	18	56	6	1.1
82.2	103.1	**GABBRO:** coarse-medium grained dark gray gabbro; bleached to lighter color in parts; altered /?weathered with pervasive development of green sericite-talc; 1-20 mm. soft carbonate veins common; several generations from 10°-70° CA; vague banding or layering in gabbro 75° CA; disseminated pyrite common in upper half of unit, decreasing down hole; ocassionally concentrated along margins of carbonate veins; some red staining (? hematite) also associated with veins; core moderately competent; most fracturing along carbonate veins; reduced to NQ at 101.3 m;	82.2	103.5	100				82.2	84.0	<1	113	21	110	<5	0.4
									85.0	86.0	<1	101	23	207	<5	0.4
									87.0	88.0	<1	211	23	155	<5	0.1
									89.0	90.0	<1	265	28	98	6	0.2
									91.0	92.0	<1	154	24	300	<5	<0.1
									94.0	95.0	<1	107	24	235	<5	<0.1
									97.0	98.0	3	7	15	31	<5	<0.1
									100.0	101.0	<1	103	17	125	<5	<0.1
103.1	111.4	**FAULT ZONE:** very broken zone of mixed quartzite, gabbro, breccias, pug and rubble; interpreted as significant fault zone, but could also be brecciated margin of gabbro dyke; **103.1-106.3 m:** breccia, pug and quartzite rubble;	103.5	104.2	70											
			104.2	104.8	60				102.0	103.5	1	47	16	58	<5	0.1
			104.8	105.7	65											
			105.7	106.3	85				107.0	108.0	<1	106	23	155	<5	<0.1
			106.3	107.8	100											
			107.8	109.0	95				110.0	111.4	<1	105	18	83	<5	<0.1
			109.0	110.2	90											
			110.2	111.4	100											

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
103.1 continued.....	111.4	**106.3-111.4 m:** gabbro, rubble, pug, minor quartzite;														
111.4	133.5	**PYRITIC CALCAREOUS SILTSTONE, CARBONACEOUS SHALE, LIMESTONE:** interbedded buff brown calcareous siltstone, light gray limestone and carbonaceous shales; abundant carbonate veining; pyritic; **111.4-112.7 m:** medium-light gray calcareous siltstone; several thin carbonate veins; pyritic; broken; **112.7-113.7 m:** black carbonaceous pug and brecciated material; abundant fine pyrite; significant core loss; **113.7-120.9 m:** well bedded light buff brown calcareous siltstone; 117.0 m: 100 mm carbonaceous shale band; BCA 60°; carbonate and quartz-carbonate veining common as thin veins or partings parallel bedding and discordant veins 1-10 mm wide at random angles to bedding; 3-5% pyrite, locally more abundant; generally associated with carbonate veins as heavily disseminated concordant seams, selvedges and coarse clots and aggregates; core moderately competent; most fracturing parallel to bedding; **120.9-121.5 m:** dark gray calcareous siltstone, with white carbonate spots; 1-5 mm white carbonate veins common; 2-3% disseminated pyrite; **121.5-124.1 m:** buff colored pyritic calcareous sediments as for 113.7 m; broken; **124.1-125.0 m:** black carbonaceous shale with abundant pyrite as fine disseminations and large ovoid clots near HW and 20 mm. semi-massive to massive seam near FW; **125.0-133.5 m:** dark gray limey siltstone or silty limestone; stylolitic; white calcite as abundant veins and large crystalline masses; 2-3% pyrite disseminated in limestone but principally concentrated along fractures and	111.4	112.5	90				114.0	116.0	3	<5	<10	16	<5	1.27
			112.5	112.7	100				116.0	117.0	2	<5	<10	13	<5	1.77
			112.7	112.9	50											
			112.9	113.3	50				118.0	120.0	4	<5	<10	15	<5	0.9
			113.3	115.5	100											
			115.5	116.3	90				122.0	124.1	1	9	<10	19	<5	1.1
			116.3	133.5	100				124.1	125.0	163	75	19	26	74	13.2
									127.5	129.0	3	<5	<10	7	<5	0.5
									132.0	133.0	2	6	<10	11	6	0.7

COMPANY: Pacific-Nevada
PROJECT: North Butler
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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
111.4 continued.....	133.5	stylolitic surfaces and carbonate vein margins; core moderately competent but some sections very broken along several joint sets; grades into unit below.....														
133.5	145.4	**BLACK PYRITIC CARBONACEOUS SHALE:** black carbonaceous shale; BCA 60-70°; 1-10 mm. carbonate and quartz-carbonate veins common; often convoluted; 5-7% pyrite as seams parallel to bedding, finely disseminated throughout and associated with carbonate veins; 140.5-143.0 m; more abundant (10%) 142.7-143.3 m: pyrite semi massive-massive; core very broken along graphitic bedding planes and several joint sets; 143.7-145.0 m: black pyritic pug with some core loss;	133.5	134.2	100				133.5	135.0	23	29	<10	14	6	1.8
			134.2	134.6	60											
			134.6	136.5	100				137.0	138.0	16	25	<10	13	<5	1.9
			136.5	137.9	60											
			137.9	140.5	100				140.0	141.0	37	36	14	27	32	4.9
			140.5	141.8	80				141.0	142.0	38	47	16	30	41	6.1
			141.8	142.6	100				142.0	144.0	31	68	18	40	230	12.3
			142.6	143.8	85											
			143.8	145.5	60											
145.4	151.1	**CALCAREOUS SILTSTONE or SILTY LIMESTONE:** light gray fine grained calcareous siltstone with abundant thin carbonate veins; 2-3% pyrite disseminated and associated with carbonate veins; similar to 125.0 m..... core extremely broken, little more than rubble;	145.5	146.0	50				149.0	150.0	4	<5	<10	9	<5	0.6
			146.0	146.5	20											
			146.5	146.9	100											
			146.9	148.1	35				152.0	153.0	45	16	<10	14	7	1.7
			148.1	148.7	80											
			148.7	151.1	100				155.0	156.0	19	21	<10	17	17	2.9
									158.0	159.0	23	27	10	15	28	4.3
151.1	187.3	**BLACK PYRITIC CARBONACEOUS SHALE:** black graphitic strongly carbonaceous shale with ocassional thin silty band; 1-5 mm carbonate veining common, ocassionally up to 200 mm. BCA generally 40-50°; 3-5% pyrite common, often 5-10%, as finely disseminated grains in shale; associated with carbonate veins, almost totally replacing the carbonate component as thin contorted semi-massive veins; core extremely soft and very broken along	151.1	153.4	100				161.0	162.0	29	54	23	23	43	7.85
			153.4	154.4	90											
			154.4	162.1	100				164.0	165.0	32	319	27	33	45	7.7
			162.1	162.5	50											
			162.5	163.4	100				167.0	168.0	26	34	17	19	33	5.6
			163.4	163.9	80											
			163.9	174.7	100				170.0	171.0	69	116	21	27	10	8.1
			174.7	175.9	25											
			175.9	176.4	35				173.0	174.0	51	73	32	26	18	6.9
			176.4	177.4	30											
			177.4	177.9	85				178.0	179.0	65	62	28	53	7	6.8

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 002

Description			Core Recovery			RQD			Assays							
From	**To**		**From**	**To**	**%**	**From**	**To**	**%**	**From**	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
151.1 continued.....	187.3	graphitic bedding planes and joint surfaces; ocassionally reduced to pug and rubble;	177.9	179.6	100				181.0	182.0	65	62	25	37	<5	6.3
			179.6	179.9	50											
			179.9	181.3	85				184.0	185.0	43	71	20	33	<5	5.5
187.3	211.4	**CALCAREOUS SILTSTONE, calcite veined and pyritic:** dark gray medium grained calcareous siltstone; narrow carbonaceous shale bands in places; white calcite abundant as anastomosing fine 1-2 mm veins infilling fractures, and as larger masses and veins to 20 mm; 205.3 m: 600 mm vein calcite and 206.4 m., 200 mm. vein; **below 207.8 m:** calcite veining abundant, constituting 20-30% of core; 3-5% pyrite as fine pervasive disseminated grains and larger aggregates; also concentrated along fractures and within carbonate veins; **below 210.0 m:** pyrite abundant, 5-10%, as veins, fracture infillings and large clots; BCA difficult to determine, but common fine fractures 50° CA, possibly parallel to bedding; ground conditions vary from moderately competent to rubble; strongly fractured along carbonate veins and graphitic surfaces;	181.3	182.8	70											
			182.8	183.2	75				188.0	189.0	10	7	<10	<5	55	0.6
			183.2	183.9	50											
			183.9	184.6	60				191.0	192.0	13	<5	<10	<5	25	0.4
			184.6	185.7	100											
			185.7	186.5	75				194.0	195.0	8	<5	<10	<5	21	0.4
			186.5	187.3	50											
									197.0	198.0	6	6	<10	<5	15	0.7
			187.3	207.9	100											
			207.9	209.7	80				200.0	201.0	5	7	<10	<5	19	0.4
			209.7	210.8	100											
			210.8	211.4	66				203.0	204.0	4	<5	<10	<5	18	0.4
									205.0	206.0	4	<5	<10	<5	24	0.4
									208.0	209.0	4	<5	<10	<5	9	0.6
									209.0	210.0	9	24	18	10	9	3.3
									210.0	211.0	36	89	56	7	27	10.3
211.4	211.8	**FAULT ??:** unit above juxtaposed against unit below along a very sharp structure sub-parallel to CA; 20-30% pyrite in units either side of structure;	211.4	211.8	100				211.0	212.0	37	108	54	7	18	15.6
									212.0	213.0	72	176	82	13	22	20.2
									213.0	214.0	10	34	17	33	<5	4.3
211.8	222.2	**SILTSTONE-SANDSTONE, fissile and pyritic:** light-dark gray siltstone, highly fissile; weakly calcareous cement; BCA 30°; white calcite as minor veins and irregular masses; pyrite abundant, often 20-30%, as 10-50 mm seams parallel to bedding, disseminated in	211.8	222.2	100				214.0	215.0	19	80	31	11	7	11.2
									215.0	216.0	31	168	62	15	13	18.2
									216.0	217.0	12	103	26	17	<5	6.3
									217.0	218.0	18	71	34	27	<5	7.5
									218.0	219.0	65	114	52	26	<5	>10
									219.0	220.0	91	266	78	31	31	>10
									220.0	221.0	118	234	52	23	26	>10
									221.0	222.0	80	45	26	17	<5	6.9

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
211.8 continued.....	222.2	matrix of sandy-gritty sections and abundant finely disseminated in more carbonaceous sections; core very broken as thin slithers along bedding plane fractures;														
222.2	222.3	**FAULT ??:** narrow light gray siliceous breccia; sharp contact with unit above; unobserved contact with unit below;														
222.3	239.6	**CALCAREOUS and PYRITIC SILTSTONE, minor carbonaceous shale:** dark-light gray siltstone with siliceous bands in places; significant fine grained calcareous component; **222.3-224.3 m:** very broken black carbonaceous and pyritic siltstone; **224.3-229.4 m:** well bedded siltstone; BCA 70°; 1-10 mm carbonate veins common, especially near top of unit; 5-10% pyrite mainly in massive and semi-massive bedding conformable seams and to a lesser extent associated with carbonate veins; **229.4-231.2 m:** similar to unit above but several 100-200 mm siliceous bands with quartz filled tension gashes and veining; (some of these siliceous seggregations have appearance of fossil shell sections??? , parallel to CA , that is, perpendicular to bedding); 3-5% pyrite as thin contorted seams infilling irregular fractures, as large clots of finely disseminated pyrite; gradational with.... **231.2-239.6 m:** similar to 224.3 m., but less carbonate veining; BCA 70°; 5-10% pyrite, principally as bedding parallel seams 1-5 mm wide; overall, core moderately competent; most fractures parallel to bedding;	222.2	223.0	100				222.0	223.0	21	37	<10	20	<5	5.3
			223.0	223.5	75											
			223.5	223.9	50				224.0	225.0	32	78	38	19	12	8.7
			223.9	232.7	100				225.0	226.0	7	22	<10	20	16	2.1
			232.7	233.5	40				226.0	227.0	22	60	<10	23	<5	7.7
			233.5	239.6	100											
									229.0	230.0	7	19	<10	17	<5	4.3
									231.0	232.0	4	8	<10	49	<5	2.1
									234.0	235.0	4	39	<10	<5	<5	3.5
									235.0	236.0	8	94	<10	10	<5	6.4
									237.0	238.0	10	23	<10	11	<5	2.9

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 002

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
239.6	259.6	**BLACK SHALES, carbonaceous and pyritic:** black highly carbonaceous and graphitic and pyritic shales with ocassional thin calcareous siltstone and sandstone interbeds; conformable with unit above; BCA 65-70°; carbonate common as thin irregular veins; **254.0-255.9 m:** light brown sandy bed; below 255.9 m: bedding flattens to 20-30° CA; 3-5% pyrite, principally as very fine pervasive disseminations in shales, and to a lesser extent as thin seams along carbonate filled fractures and veins; core is very broken, especially in more graphitic sections; most fracturing along bedding planes;	239.6	242.0	100				240.0	241.0	14	24	<10	6	17	2.3
			242.0	243.0	70				241.0	242.0	21	69	<10	30	19	2.4
			243.0	244.9	95											
			244.9	245.8	45				244.0	245.0	30	37	<10	23	<5	2
			245.8	250.3	100											
			250.3	251.0	50				246.0	247.0	11	22	<10	30	11	1.3
			251.0	251.8	90											
			251.8	252.9	90				248.0	249.0	27	35	<10	21	<5	2
			252.9	258.8	100											
			258.8	259.4	65				250.0	251.0	12	23	<10	15	<5	1.7
									251.0	252.0	16	8	<10	10	<5	0.7
									252.0	253.0	21	20	<10	24	<5	1.9
									255.0	256.0	11	21	<10	28	<5	3.6
									258.0	259.0	68	19	<10	22	<5	3.9
259.6	261.8	**FAULT ZONE ???** dark gray-black breccia and pug zone; clastic fragments of quartz, sandstone, shale set in very soft carbonaceous black clay/pug; some quartz veining near base; abundant pyrite as fine-coarse grains, aggregates and thin veinlets; core very soft and broken;	259.4	260.6	100											
			260.6	262.0	45				259.5	261.0	46	23	<10	22	<5	5.1
									261.0	262.5	20	40	<10	23	<5	3.8
261.8	262.5	**PYRITIC SANDSTONE and GRIT:** dark gray speckeled sandstone-grit; BCA 70°; <1 mm. carbonate veins common; 3-5% pyrite as disseminated grains and thin stringers; core very broken;	262.0	262.5	100											
		END OF HOLE														

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 003

Commenced:	12 Dec 99
Completed:	09 Jan 00
Logged By:	L.A.Newnham
Drilled By:	DDT

Purpose of Hole

to test a coincident IP and geochem anomaly along strike to the east of NB 001;

Comments on Completion

hole intersected a sequence of mafic volcanics overlying (?) a sequence of sediments including several substantial black shale beds; there was strong carbonate-quartz-pyrite alteration of the sediments; the only mineralisation of significance was from 166.0-172.0 m., (6 m) 0.14 g/t Au;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5307670	364180	2105	-50	52

Length (m)
310.7

Hole Size

To (m)	Size
4	HW
97	HQ
310.7	NQ

Significant Core Loss Zones

From	To	%Rec.
significant	losses in	
	sediments	see log

Hole Condition on Completion

all casing removed from hole except for 3 m.HW

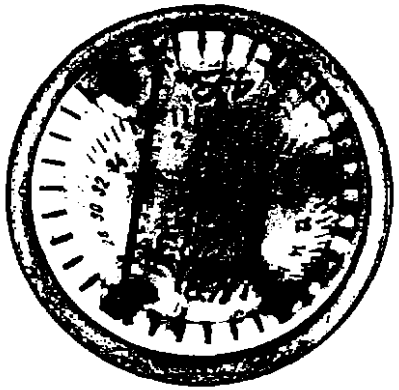
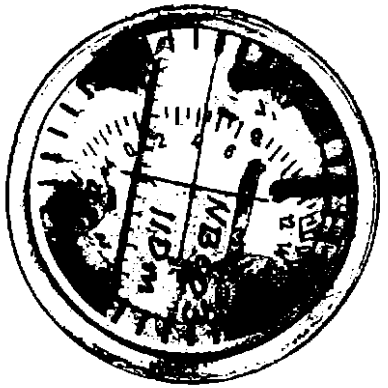
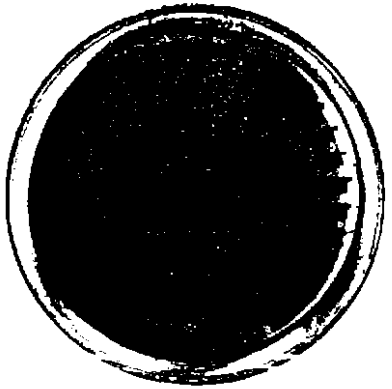
Summary of Results:

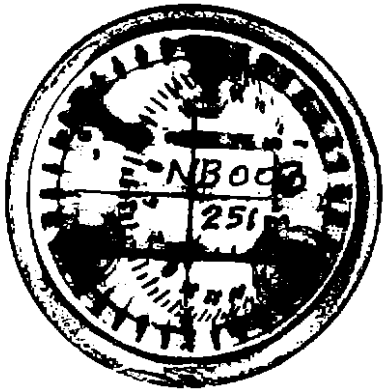
Depth		Recovery	Description	Assays							
From	To	%		Length	ppm Au	Cu	Pb	Zn	%S		
166.0	172.0	98	calcareous shales and mudstone	6.0	0.14	106	68	13	13.8		

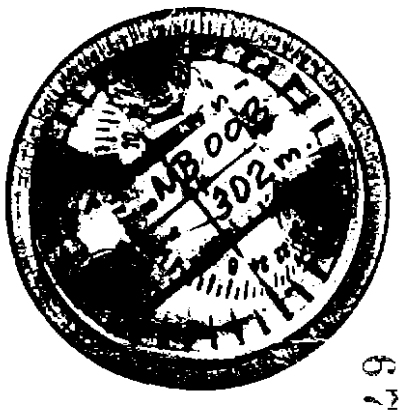
DOWN HOLE SURVEY DATA

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 003

Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-50	53					2105.00		0.00		5,307,670.0		364,180.0
0	-50	53	0	25	25	19.15	2085.85	16.07	16.07	9.67	5,307,679.7	12.83	364,192.8
50	-49	51	25	80	55	41.51	2044.34	36.08	52.15	22.71	5,307,702.4	28.04	364,220.9
110	-49	56	80	132.5	52.5	39.62	2004.72	34.44	86.60	19.26	5,307,721.6	28.55	364,249.4
155	-49	59	132.5	203	70.5	53.21	1951.51	46.25	132.85	23.82	5,307,745.5	39.65	364,289.1
251	-46	58	203	276.5	73.5	52.87	1898.64	51.06	183.91	27.06	5,307,772.5	43.30	364,332.4
302	-46	62	276.5	306.35	29.85	21.47	1877.17	20.74	204.64	9.73	5,307,782.3	18.31	364,350.7
310.7	-46	62	306.35	310.7	4.35	3.13	1874.04	3.02	207.66	1.42	5,307,783.7	2.67	364,353.4
310.7													





6711

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 003

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
0.0	4.0	**HW tricone, no core;**	0.0	4.0	0											
4.0	30.6	**WEATHERED VOLCANICS;** orange-light brown clays and degraded rock; relict textures and iron rich spots after amphibole (?) suggest weathered volcanics; core recoveries good but ground has no strength; sharp contact with fresh rock below;	4.0	5.0	80				5.0	6.0	9	98	<20	188	<10	<0.1
			5.0	6.3	90											
			6.3	8.0	95				8.0	9.0	8	83	<20	224	<10	<0.1
			8.0	12.7	100											
			12.7	13.2	40				11.0	12.0	4	76	<20	233	<10	<0.1
			13.2	14.1	95											
			14.1	23.6	100				14.0	15.0	3	409	<20	191	<10	<0.1
30.6	59.5	**MIXED VOLCANIC BRECCIAS and LAVAS:** dark gray brecciated andesitic lava, interspersed with minor dioritic/doleritic units and minor medium grained volcaniclastic sedimentary beds; **below 35.5 m:** rocks are strongly calcareous with white carbonate as spots, and abundant veins and anastomosing masses replacing interstitial material in brecciate lavas; sections of volcaniclastic sediments are highly calcareous; carbonate alteration rapidly diminishes below 52.0 m; 0.5-1% pyrite associatd with carbonate replacement as small blebs and stringers within carbonate masses, and less commonly disseminated throughout volcanics; BCA in volcaniclastics 60°; core competent;	23.6	24.3	60											
			24.3	28.9	100				17.0	18.0	48	526	<20	184	<10	<0.1
			28.9	31.3	90											
									20.0	21.0	27	352	<20	616	28	<0.1
			31.3	59.5	100											
									21.0	24.0	3	76	<20	80	10	<0.1
									26.0	27.0	2	117	<20	77	13	<0.1
									29.0	30.0	5	39	<20	81	10	<0.1
									32.0	33.0	6	306	<20	92	<10	<0.1
									35.0	36.0	5	102	<20	50	13	0.1
									38.0	39.0	6	132	<20	138	11	0.1
									41.0	42.0	9	96	<20	165	15	0.1
59.5	68.2	**GABBRO/DOLERITE, minor volcaniclastic sediments:** dark gray-green medium grained gabbroic unit with light green-white mottled phenocrysts set in gark gray fine grained groundmass; thin volcaniclastic sedimentary beds near base (gradational?); minor 1-5 mm. carbonate veins; 0.5% pyrite as small grains and aggregates, normally associated with carbonate veins; core moderately broken along rough fractures, often at low angles to CA;	59.5	68.2	100				44.0	45.0	7	121	<20	92	15	<0.1
									47.0	48.0	6	35	<20	66	<10	<0.1
									50.0	51.0	8	111	<20	49	29	0.2
									51.0	52.0	12	1455	<20	63	77	0.2
									54.0	55.0	10	93	<20	49	41	0.3
									57.0	58.0	6	89	<20	95	<10	<0.1

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 003

Description			Core Recovery			RQD			Assays							
From	**To**		**From**	**To**	**%**	**From**	**To**	**%**	**From**	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
68.2	76.5	**SEDIMENTS, possibly volcaniclastic:**	68.2	68.6	100				60.0	61.0	9	169	<20	64	<10	<0.1
		light-medium gray medium-coarse grained	68.6	69.0	75											
		felspathic sandstone interbedded with light	69.0	70.8	100				63.0	64.0	7	71	<20	384	16	0.1
		gray-light brown finer grained siltstone;	70.8	71.6	50											
		BCA 55° near top increasing to 70° near base;	71.6	76.5	100				66.0	67.0	6	123	<20	180	17	0.1
		graded bedding possibly suggests facing down														
		hole?							69.0	70.0	9	78	<20	82	16	<0.1
		trace-minor pyrite;														
		core moderately competent with several very							72.0	73.0	8	118	<20	72	38	0.2
		broken zones;														
		sharp contact with unit below 70° CA;							75.0	76.0	17	33	<20	47	19	0.2
76.5	92.1	**GABBRO:**														
		dark green-gray medium grained gabbro;	76.5	92.1	100				76.5	78.0	7	88	<20	60	10	0.1
		upper margin very fine grained for first 400														
		mm.; chilled margin with unit above;							79.0	80.0	5	46	<20	91	<10	<0.1
		lower margin bleached and altered but sharp														
		contact with shales below;							82.0	83.0	6	60	<20	138	<10	<0.1
		minor 1-5 mm. calcite and quartz-carbonate														
		veining and calcite infilling of fine fractures;							85.0	86.0	5	59	<20	91	<10	<0.1
		carbonate altered to soft greenish clay (talc?)														
		in places;														
		0.5% pyrite, locally to 1-2%, as disseminated							88.0	89.0	6	84	<20	96	<10	<0.1
		grains and aggregates, especially near lower														
		contact and associated with carbonate and							91.0	92.1	8	89	<20	31	30	0.3
		quartz-carbonate veining;														
		ground conditions moderately good; most														
		fracturing at 50-60° CA;														
92.1	165.0	**CALCAREOUS SEDIMENTS interbedded**														
		with BLACK PYRITIC SHALES:	92.1	93.0	100											
		light gray-cream hine grained calcareous	93.0	93.8	35											
		sediments(carbonates) interbedded with black	93.8	95.2	0											
		carbonaceous shale;	95.2	96.4	10											
		carbonate is extensively silicified and cut by	96.4	97.3	30											
		white carbonate and quartz-carbonate veins;	97.3	97.9	80											
		pyrite abundant in shales and common in	97.9	98.0	100											
		carbonates, mainly associated with late stage	98.0	99.4	85											
		veining;	99.4	101.5	100											
		92.1-97.8 m: graphitic black shales, very	101.5	103.7	85											
		broken and decomposed, reduced to	103.7	105.5	15											
		recemented sandy rubble in places;														
		strongly pyritic:	105.5	107.0	50											

977113

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
92.1 continued.....	165.0	**97.8-111.2 m:** cream-light orange calcareous sediments, soft and weathered/altered; minor black shale interbeds; minor leached carbonate and quartz-carbonate veins; BCA 45-50°; minor pyrite associated with veining; **111.2-115.0 m:** black graphitic and pyritic shales; very broken; **115.0-125.8 m:** light gray calcareous sediments/carbonates; extensive silicification and carbonate replacement; brittle fracturing with fractures typically filled with white carbonate and quartz; 2-3% pyrite, locally more abundant; mainly associated with veining as coarse aggregates, vein infilling and coarse disseminated grains; **125.8-138.6 m:** black pyritic and graphitic shales; minor light gray carbonate interbeds; BCA 50°; pyrite abundant as fine grained stratabound seams and associated with veining; core very broken and fractured with high core losses in places; **138.6-147.9 m:** light gray calcareous sandstone cut by abundant 1-10 mm. carbonate and quartz-carbonate veins with minor associate pyrite; interval extremely broken and rubbly; **147.9-157.0 m:** interbedded black siltstone-shale and light gray siltstone, cut by abundant quartz and quartz-carbonate veins carrying minor pyrite; much of interval reduced to clay and sand with high core losses; **157.0-165.0 m:** more massive medium grained strongly calcareous siltstone with minor interbedded mudstone, cut by a network of1-5 mm carbonate and quartz-carbonate veins and large masses carrying minor pyrite; some sections brecciated;	107.0	109.5	100				98.0	99.0	12	10	<20	6	16	2.5
			109.5	111.2	3											
									100.0	101.0	16	<5	<20	11	<10	1.5
									103.0	104.0	12	10	<20	8	17	1.3
			111.2	112.5	40				107.0	108.0	11	9	<20	11	<10	0.7
			112.5	113.5	80											
			113.5	114.5	80				112.5	113.5	106	64	<20	17	84	9.7
			114.5	114.8	60											
			114.8	116.5	90				115.0	116.0	23	15	<20	9	13	2.8
			116.5	126.4	100											
			126.4	127.4	30				118.0	119.0	9	<5	<20	12	<10	0.7
			127.4	128.1	50											
			128.1	128.9	50				121.0	122.0	6	<5	<20	10	<10	0.3
			128.9	130.0	60											
			130.0	133.7	100				123.0	124.0	6	9	<20	16	<10	0.5
			133.7	135.2	75				124.0	125.0	4	6	66	154	16	1
			135.2	137.0	25											
			137.0	137.5	40				128.0	129.0	49	37	22	8	29	4.9
			137.5	137.9	80				129.0	130.0	61	54	24	7	39	7.5
			137.9	138.6	50											
			138.6	140.0	90				132.0	133.0	26	16	20	9	22	4.1
			140.0	149.2	100											
			149.2	149.8	50				140.0	141.0	7	<5	<20	14	<10	0.9
			149.8	150.3	40											
			150.3	151.1	50				143.0	144.0	2	<5	22	14	<10	0.8
			151.1	151.6	40											
			151.6	152.2	30				146.0	147.0	8	<5	22	10	<10	1
			152.2	152.7	0											
			152.7	153.6	20				149.0	151.0	11	<5	22	38	<10	1.2
			153.6	154.0	100											
			154.0	155.4	70				154.0	155.0	8	<5	24	8	45	1.8
			155.4	160.6	100											
			160.6	162.7	90				156.0	157.0	29	13	26	10	75	4.7
			162.7	163.2	80											
			163.2	165.0	100				158.0	159.0	10	<5	28	19	<10	0.7
									161.0	162.0	13	48	36	34	11	0.7
									163.0	164.0	12	23	34	32	13	0.9

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 003

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
165.0	186.2	**SHALE, minor sandstone and breccias, massive pyrite banding:** dark-medium gray, fine grained calcareous sediments principally shale and mudstone; minor breccia units; some sections strongly silicified and calcareous; very well bedded 50-60° CA; facing appears to be up hole; 1-10 mm quartz-carbonate veins common; feature of unit is banding of fine grained massive pyrite which is abundant in places; overall 5-10% pyrite but locally >50%; **166.0-168.5 m:** banded massive pyrite; additional pyrite as coarse disseminated grains and aggregates associated with quartz-carbonate veining; ground moderately competent with most fractures parallel to bedding; bedding planes often appear greasy (sericitic) and some sections closely fractured along bedding;	165.0	170.0	100				165.0	166.0	49	23	38	<5	18	2.8
			170.0	171.0	90				166.0	167.0	242	146	62	8	53	16.8
			171.0	186.2	100				167.0	168.0	180	159	78	10	51	16.4
									168.0	169.0	126	109	72	10	35	16.5
									169.0	170.0	51	53	54	12	20	7.2
									170.0	171.0	116	92	78	26	38	12.3
									171.0	172.0	124	81	64	12	38	13.8
									172.0	173.0	68	35	46	8	22	7.2
									173.0	174.0	62	56	66	9	29	7.5
									174.0	175.0	41	55	130	22	31	7.7
									175.0	176.0	8	37	46	9	21	6.1
									176.0	177.0	41	67	120	20	32	11.8
									177.0	178.0	10	10	34	6	<10	3.3
									178.0	179.0	9	21	34	7	14	5.7
									179.0	180.0	4	23	38	7	21	9.1
									180.0	181.0	31	31	40	18	16	0.4
									181.0	182.0	23	30	28	14	17	1.5
									182.0	183.0	7	52	30	16	17	3.8
									183.0	184.0	8	44	54	11	24	4.9
186.2	193.9	**CALCAREOUS GRITS and BRECCIAS:** dark gray medium grained grit and breccia interbedded with dark gray bedded siltstone; matrix in both brecia and grits is highly calcareous; quartz-carbonate and quartz veining common in coarser grained sections; 1-2 % pyrite as disseminated grains and discontinuous stringers especially in coarser grained grits and breccias;	186.2	193.9	100				184.0	185.0	11	40	42	7	27	6.4
									186.2	188.0	6	7	38	<5	14	0.7
									188.0	189.0	16	13	30	62	15	0.9
									190.0	191.0	23	42	36	9	34	2.8
			193.9	196.3	100											
			196.3	197.7	90				192.0	193.0	5	16	34	<5	14	1.1
			197.7	200.0	100											
			200.0	200.3	65				194.0	195.0	17	12	36	5	22	1.2
			200.3	200.8	90											
193.9	218.5	**BLACK PYRITIC SHALE and minor sandstone:** well bedded/laminated dark gray-black pyritic shale with minor interbedded light gray grit with calcareous cement, and light gray fine grained silicified volcaniclastic (?) sediments; BCA 50-55°; 5-10% pyrite as thin massive and semi-massive seams parallel bedding; 205.8-213.0 m: core extremely broken with shales reduced to rubble, sand and clay;	200.8	205.6	100				196.0	197.0	24	23	44	8	35	3
			205.6	206.9	70											
			206.9	207.4	50				198.0	199.0	3	<5	24	<5	13	0.4
			207.4	208.2	50											
			208.2	208.7	sand				200.0	201.0	31	29	50	9	35	4.2
			208.7	211.6	25											
			211.6	212.4	35				203.0	204.0	58	35	44	15	38	4.9
			212.4	212.9	40											
			212.9	213.6	70				206.0	207.0	27	19	40	7	32	3.8
			213.6	218.3	100											

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 003

Description			Core Recovery			RQD			Assays							
From	**To**		**From**	**To**	**%**	**From**	**To**	**%**	**From**	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
193.9	218.5	elsewhere core quite broken along bedding planes into "penny" core;							214.0	215.0	39	22	40	9	29	3.1
									217.0	218.0	26	26	42	9	29	2.7
218.5	255.8	**SILICIFIED SEDIMENTS (Carbonate?), minor phyllite and shaley beds:** light gray, hard, strongly silicified medium grained sediment, interbedded with minor light gray phyllitic units and pyritic black shale; remnant stylolitic structures in siliceous zones suggest sediments may originally have been carbonates; several generations of 1-10 mm. white quartz veins with no preferred orientation; finely vuggy texture in placessuggesting significant leaching; **230.7-232.0 m:** black pyritic shale; BCA 60°; **234.6-241.3 m:** light gray-light brown soft phyllitic sediments interbedded with silicified sediments; very broken; 1-2% pyrite in silicified sediments, but increasing locally towards base of unit to 3-5%, as coarse euhedral grains and aggregates both within the silicified sediments and concentrated along quartz veins; core broken; brittle irregular fracturing of siliceous sediments results in some sections being very broken and rubbly; phyllitic and shaley units soft and very broken;	218.3	220.5	90				220.3	221.0	8	19	32	12	19	2.5
			220.5	243.4	100				223.0	224.0	11	10	32	10	21	2.6
			243.4	245.6	90				226.0	227.0	3	<5	26	7	14	0.5
			245.6	248.0	55				229.0	230.0	3	<5	28	6	18	1.6
			248.0	249.6	85				232.0	233.0	57	12	44	6	40	3.6
			249.6	256.2	100				235.0	236.0	1	10	<20	5	<10	1.4
									241.0	242.0	<1	10	<20	5	<10	1.5
									243.0	244.0	<1	14	<20	10	<10	0.9
									245.0	246.0	<1	9	<20	12	<10	0.7
									248.0	249.0	<1	12	<20	10	<10	0.8
									250.0	251.0	<1	24	<20	7	<10	0.8
									252.0	253.0	3	12	<20	5	<10	1.3
									254.0	255.0	5	12	<20	11	<10	1.9
255.8	277.5	**PHYLLITIC SEDIMENTS INTERBEDDED WITH SANDSTONES, minor black shale:** light gray, fine grained mudstone-siltstone with phyllitic texture, interbedded with fine-medium grained light gray silicified sandstone; BCA 45°; 1-2% pyrite as pervasive disseminated coarse euhedral grains; minor fine grained pyrite.....	256.2	267.7	100				257.0	258.0	2	13	<20	9	<10	2.4
			267.7	269.0	90				260.0	261.0	3	16	<20	10	<10	2.7
			269.0	269.8	50				263.0	264.0	3	13	<20	7	<10	2.8
			269.8	270.9	90				266.0	267.0	24	14	<20	7	12	3.7
			270.9	272.7	100											
			272.7	275.0	70											
			275.0	277.3	60											

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 003

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
255.8	277.5	concentrated in seams and bands parallel to bedding in shale sections;							271.0	272.0	8	9	<20	8	<10	3.2
									274.0	275.0	11	7	<20	6	<10	3.2
277.5	310.7	**ALTERED SEDIMENTS (?volcanic component?), strong silica-pyrite-carbonate alteration:** light-medium gray gritty sediments (possible volcanic component), strongly altered and replaced by white quartz and creamy white carbonate; sericite and chlorite alteration widespread resulting in "whispy" texture in places; 1-2% pyrite as coarse aggregates and euhedral grains; locally more abundant; **295.1-298.1 m:** medium grained igneous dyke; gabbroic appearance; abundant dark green amphibole needles; minor disseminated pyrite; **299.8-300.5 m:** similar dyke to that above with pervasive chlorite alteration; **302.1 m:** 200 mm semi-massive pyrite band; **305.2 m:** 100 mm semi-massive pyrite band; ground conditions generally reasonablebut several very broken, rubbly sections; widespread leaching of core evidenced by vuggy and honeycombed nature; **END OF HOLE**	277.3	280.3	15											
			280.3	298.9	100											
			298.9	301.8	90				281.0	282.0	2	9	<20	5	<10	1.7
			301.8	304.9	95											
			304.9	308.0	90				283.0	284.0	1	10	<20	8	<10	0.9
			308.0	310.7	90											
									285.0	286.0	4	8	<20	19	<10	0.9
									287.0	288.0	5	24	<20	<5	<10	1.6
									289.0	290.0	3	29	<20	5	<10	1.6
									291.0	292.0	2	11	<20	6	<10	0.6
									293.0	294.0	3	14	<20	11	<10	0.8
									295.0	296.0	2	11	<20	17	19	0.4
									297.0	298.0	2	17	<20	31	27	0.3
									299.0	300.0	2	12	<20	14	19	2.9
									300.0	301.0	3	12	<20	32	12	0.7
									301.0	302.0	<1	9	<20	7	15	1.4
									303.0	304.0	<1	16	<20	9	<10	<0.1
									305.0	306.0	<1	9	<20	11	60	4.2
									307.0	308.0	<1	9	<20	5	<10	0.7
									309.0	310.0	<1	9	<20	<5	28	0.8

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Commenced:	14 December 99
Completed:	21 December 99
Logged By:	L.A.Newnham
Drilled By:	DDT

Purpose of Hole
designed to test geochemical anomaly along strike from NB 001;

Comments on Completion
hole intersected sequence of mafic volcanics and sediments dominated by quartzites with minor shales; possible sequence was tightly folded through this area; feature of sediments was strong silica-carbonate-pyrite alteration; no significant mineralisation was intersected;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5307539	364292	2125	-50	104

Length (m)
340

Hole Size	
To (m)	**Size**
9.5	HW
171.7	HQ
340	NQ

Significant Core Loss Zones		
From	**To**	**%Rec.**
88.7	106.7	see log

Hole Condition on Completion
all casing removed from hole;

Summary of Results:

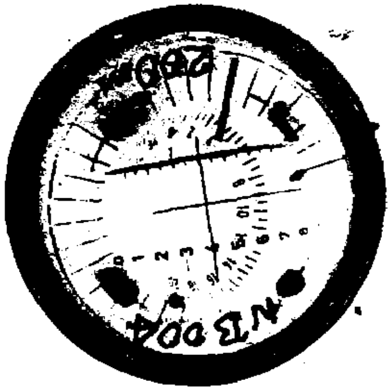
Depth		**Recovery**	**Description**	**Assays**							
From	**To**	**%**		**Length**	**ppm Au**	**Cu**	**Pb**	**Zn**	**%S**		
			no significant mineralisation;								
			several strongly pyritic intervals;								

DOWN HOLE SURVEY DATA

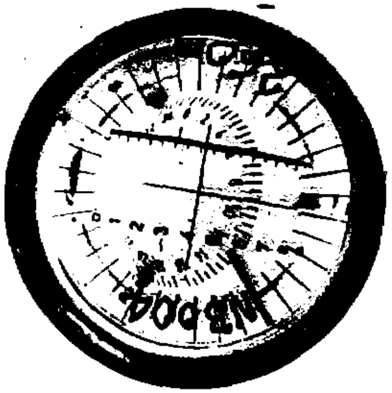
COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-50	104					2125.00		0.00		5,307,539.0		364,292.0
0	-50	104	0	29	29	22.22	2102.78	18.64	18.64	-4.51	5,307,534.5	18.09	364,310.1
58	-50	104	29	79	50	38.30	2064.48	32.14	50.78	-7.78	5,307,526.7	31.18	364,341.3
100	-50	104	79	125	46	35.24	2029.24	29.57	80.35	-7.15	5,307,519.6	28.69	364,370.0
150	-50	104	125	175	50	38.30	1990.94	32.14	112.49	-7.78	5,307,511.8	31.18	364,401.1
200	-49	104	175	230	55	41.51	1949.43	36.08	148.57	-8.73	5,307,503.1	35.01	364,436.2
260	-48	104	230	285.5	55.5	41.24	1908.19	37.14	185.71	-8.98	5,307,494.1	36.03	364,472.2
311	-48	106	285.5	325.5	40	29.73	1878.46	26.77	212.47	-7.38	5,307,486.7	25.73	364,497.9
340	-48	106	325.5	340	14.5	10.78	1867.69	9.70	222.18	-2.67	5,307,484.0	9.33	364,507.2
340													

200m: 49/91

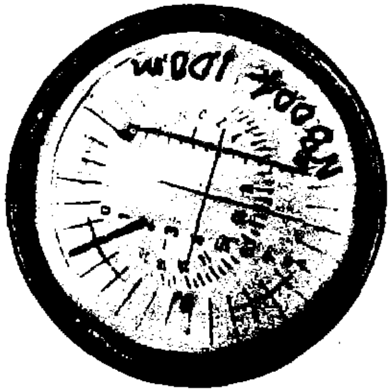


260m: 48/91

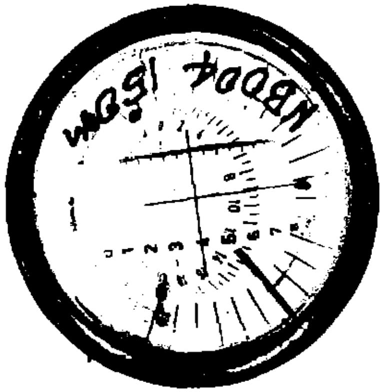


311m 48/93

58m: 50/91



100m. 51/91



150m: 50/91.

NB 004

677120

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
0.0	9.5	HW tricone; clays and decomposed rock; no core;	0.0	9.5	0											
9.5	12.0	**WEATHERED INTRUSIVE;** light brown-green-orange clays and decomposed fine grained rock (?intrusive); gradually becoming less weathered down hole;	9.5	11.0	90				13.0	14.0	1	89	<50	251	<5	<0.1
			11.0	12.0	70				17.0	18.0	<1	56	<50	232	<5	<0.1
12.0	40.0	**FINE GRAINED IGNEOUS ROCK (diorite?):** light-dark gray fine grained intrusive rock, possibly diorite or dolerite); mottled appearance due to variable weathering; dark brown-black amphibole (?) spots pervasive and common; hairline fractures filled with soft orange clay/ sericite, possibly after carbonate with pyrite; trace of pyrite in these fractures; core very broken with intense weathering and decomposition along joints, veins, and fractures; grades into unit below.....	12.0	14.0	100				20.0	21.0	3	81	<50	536	<5	<0.1
			14.0	15.5	65											
			15.5	24.5	100				23.0	24.0	1	139	<50	410	<5	<0.1
			24.5	25.0	60											
			25.0	39.3	100				26.0	27.0	1	46	<50	246	<5	0.1
			39.3	40.4	95											
									29.0	30.0	<1	76	<50	139	<5	0.1
									32.0	33.0	5	84	<50	223	<5	<0.1
									35.0	36.0	6	95	<50	187	<5	<0.1
									37.0	38.0	<1	116	<50	304	<5	0.1
40.0	51.8	**MEDIUM GRAINED GABBROIC ROCK:** light-medium gray greenish, medium grained fibrous textured gabbroic rock; numerous rounded dark gray-black amphibole (?) phenocrysts; quartz phyric; <0.5% pyrite associated with quartz and amphibole and as small grains in thin carbonate veins; trace disseminated pyrite scattered throughout the gabbro; core moderately broken to 49.0 m., then extremely broken-rubble to 51.8 m; some core loss below 47.0 m;	40.4	47.0	100				41.0	42.0	<1	95	<50	137	<5	<0.1
			47.0	48.6	85											
			48.6	49.5	100				44.0	45.0	<1	76	<50	238	<5	<0.1
			49.5	50.2	35											
			50.2	51.1	90				47.0	48.0	<1	28	<50	476	<5	<0.1
			51.1	51.6	cave											
51.8	54.2	**GABBRO, calcite veined and pyritic:** light gray-brown strongly altered gabbro with abundant 1-20 mm anastomosing white calcite veins; core has soft talcy-sericitic feel and appearance; 5-7% pyrite associated with carbonate veining as masses, clusters of euhedral pyrite and thin veinlets; core moderately competent;	51.6	54.2	100				51.8	52.8	2	13	<50	83	<5	0.5
									52.8	54.2	<1	13	<50	100	<5	3.3

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
54.2	59.8	**GABBROIC INTRUSIVE:** **54.2-57.7 m:** greenish-yellow-light gray altered gabbroic rock with abundant 1-10 mm. carbonate veins, typically 50-60° CA; **57.7-59.8 m:** darker gray less altered gabbro; numerous 1-15 mm. carbonate and quartz-carbonate veins becoming more abundant towards base of unit; 1-2% pyrite, locally to 5%, as individual coarse euhedral grains in gabbro, and as thin whispy seams and disseminated grains in carbonate veins;	54.2	59.8	100				55.0	56.0	5	80	<50	349	<5	0.1
									58.0	59.0	1	73	<50	92	<5	0.1
59.8	61.8	**VOLCANICLASTIC SEDIMENT:** dark gray-purplish fine grained sediment with bands of light fawn colored volcaniclastic material; BCA 40°; abundant 1-5 mm white carbonate veins and a later phase of low angled carbonate-hematite-chlorite veining; 1-2% coarse euhedral pyrite associated with the various vein sets and disseminated in the sediments;	59.8	61.8	100											
61.8	69.3	**FINE GRAINED QUARTZ-CHLORITE PHYRIC VOLCANICS with strong carbonate-hematite alteration:** top of unit marked by narrow breccia zone with fragments set in hematite matrix; fawn colored fine grained brecciated volcanic with abundant quartz and chlorite spotting; pervasive pink color becoming darker towards base of unit; **to 63.5 m:** numerous thin carbonate veins carrying abundant specularite and pyrite; **below 63.5 m:** carbonate veining constitutes 30-50% of core accompanied by veins and irregular masses of specularite; 3-5% pyrite as coarse euhdral grains and aggregates both in carbonate veins and pervasive in host rock; ground moderately competent;	61.8	69.3	100				61.0	63.0	4	5	<50	71	<5	0.5
									63.0	64.0	6	<5	<50	48	<5	0.5
									64.0	65.0	6	<5	<50	52	<5	1.8
									66.0	67.0	<1	<5	<50	65	<5	0.2
									68.0	69.0	3	77	14	69	32	0.2

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
69.3	86.3	**COARSE VOLCANIC BRECCIA, minor gabbro near base:** coarse dark gray brecciated volcanic, possibly agglomerate; carbonate abundant as thin veins; 2-3% pyrite associated with veins; mixture of competent and very broken intervals;	69.3	80.9	100				70.0	71.0	7	115	<10	55	13	<0.1
			80.9	81.7	40											
			81.7	86.3	100				72.0	73.0	2	100	<10	50	33	0.1
									74.0	75.0	3	78	<10	59	24	<0.1
									76.0	77.0	5	56	<10	62	19	<0.1
									78.0	79.0	3	85	<10	50	16	0.1
86.3	86.8	**FAULT (?):** soft, puggy, dark gray clay and broken rock; possible fault or very weathered contact with unit below;	86.3	86.8	100											
									80.0	81.0	15	156	<10	37	53	0.6
									82.0	83.0	2	51	<10	80	31	0.1
86.8	105.0	**INTERBEDDED SILTSTONE and QUARTZITE and VOLCANICLASTIC SEDIMENTS (?):** interbedded dark gray siltstone, minor quartzite and light gray medium grained speckeled volcaniclastic sediments; BCA 40-50°, possibly facing down hole; **upper half of unit:** abundant 1-5 mm anastomosing white carbonate and quartz-carbonate veins; 3-5% pyrite associated with these veins and infilling all fractures as coarse grains, clusters, and thin veinlets; veining and pyrite are late stage events; core very broken mainly along joint sets and weak carbonate veins; **lower half of unit:** gradual decrease in amount of veining and correspondingly less pyrite (1-2%); several thicker quartz-carbonate veins at lower angle to core axis, disrupted by micro-faulting; core remains very broken;	86.8	88.0	100											
			88.0	88.7	95				84.0	86.3	9	127	16	389	30	<0.1
			88.7	89.4	40				86.3	86.8	3	105	<10	117	9	0.2
			89.4	91.0	100				86.8	88.0	1	81	<10	62	<5	0.4
			91.0	91.3	70											
			91.3	91.7	50				90.0	91.0	7	77	<10	75	<5	0.3
			91.7	92.1	75											
			92.1	92.4	0				93.0	94.0	4	102	<10	562	8	0.7
			92.4	99.2	100				94.0	95.0	5	54	<10	65	<5	0.5
			99.2	100.1	70											
			100.1	101.7	90				96.0	97.0	4	41	<10	69	<5	0.7
			101.7	103.5	100											
			103.5	104.0	40				98.0	99.0	2	69	<10	69	<5	0.5
			104.0	104.8	35											
									100.0	101.0	4	119	<10	135	<5	0.5
									102.0	103.0	4	53	<10	93	<5	0.3
									104.0	105.0	5	81	<10	80	<5	0.7
105.0	107.0	**FAULT ?:** gray pug and siltwith embedded fragments of siltstone; these large lumps of siltstone are as described in units above and below, so could represent just a very severely degraded section	104.8	106.7	50											
			106.7	106.9	100											
			106.9	107.0	cave											

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
105.0 continued.....	107.0	of siltstone; significant core loss;														
107.0	130.2	**SILTSTONE, carbonate veined:** sequence of dark gray siltstones, bleached and altered in places; extensive network of carbonate and quartz-carbonate veins, generally accompanied by significant pyrite; overall 1-2% pyrite; **107.0-116.0 m:** dark gray siltstone with abundant 2-3 generations of 1-10 mm. white carbonate and quartz-carbonate veins; thicker veins usually have quartz centres and carbonate selvages; 2-3% pyrite accompanying veining as aggregates, thin veins and disseminations; moderately competent sections of core separated by very broken intervals; several narrow pug zones may represent small faults; BCA variable, but generally 20-30°; **116.0-129.2 m:** similar to unit above but less veining and more broken due to low angled bedding; carbonaceous and sericitic material on several joint sets; BCA 10-20°; numerous 1-10 mm. carbonate, quartz and quartz-carbonate veins; 1-2% pyrite associated with veins; **129.2-130.2 m:** possible fault; broken puggy clay material; graphitic shear surfaces on rock fragments recovered;	107.0	121.6	100				107.0	108.0	5	127	<10	38	30	0.4
			121.6	122.1	60				108.0	109.0	5	108	<10	37	26	0.3
			122.1	130.2	100				109.0	110.0	3	83	<10	51	14	0.5
									110.0	111.0	4	66	<10	56	24	0.5
									111.0	112.0	<1	84	<10	58	12	0.3
									112.0	113.0	3	60	<10	49	22	0.3
									113.0	114.0	2	72	<10	62	18	0.4
									114.0	115.0	<1	15	<10	71	6	0.5
									116.0	117.0	<1	7	<10	57	22	0.5
									119.0	120.0	<1	92	<10	69	<5	0.3
									122.0	123.0	<1	87	<10	65	6	0.3
									125.0	126.0	3	6	<10	47	10	0.5
									128.0	129.0	<1	36	<10	60	<5	0.5
130.2	169.2	**VOLCANICLASTIC (?) SEDIMENTS:** light gray-fawn-cream well bedded medium grained sediments, possibly with volcaniclastic component; BCA 30° on top section, increasing down hole to 50°; upper section possibly facing down hole but lower section possibly facing up hole; (ie) hole may have passed through a small fold; network of 1-5 mm. carbonate and quartz-	130.2	169.2	100				131.0	132.0	<1	5	<10	25	<5	0.4
									134.0	135.0	<1	9	<10	46	<5	0.3
									137.0	138.0	<1	28	<10	55	<5	0.2
									140.0	141.0	<1	46	<10	60	<5	0.4
									143.0	144.0	6	26	<10	65	<5	0.4

671124

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
130.2 continued.....	169.2	carbonate veins with no apparent preferred orientation; several larger irregular quartz-carbonate masses; 5-10% pyrite in these veins, but overall 1%; ground moderately competent; principal joint set 60° CA at high angle to bedding; ocassional fractures parallel to bedding; 153.8-154.4 m: rubbly pug zone; basal 500 mm. brecciate and healed with carbonate matrix; grades into unit below;							146.0	147.0	2	80	<10	91	<5	0.4
									149.0	150.0	7	95	<10	72	11	0.8
									152.0	153.0	2	59	<10	60	<5	0.7
									155.0	156.0	3	93	<10	53	7	0.7
									158.0	159.0	13	54	<10	55	9	1.1
									161.0	162.0	7	111	<10	58	12	0.6
169.2	224.5	**VOLCANIC OR HIGH LEVEL INTRUSIVE SEQUENCE:** thick sequence of mixed gabbro, diorite, breccias and andesitic lavas; extensive carbonate alteration; pervasive pyrite, abundant in places; ground conditions good; **169.2-195.0 m:** pale gray-green dioritic/gabbroic intrusive; carbonate spotting and carbonate veining abundant, often resulting in brecciated appearance; darker zones due to more intense chloritic alteration of diorite; 1% pyrite disseminated in diorite and associated with carbonate veins; **below 195 m:** decrease in "gabbroic" material down hole accompanied by decrease in carbonate spotting down hole; offset by increase in darker gray-black chloritic (?) andesitic lavas; overall, feature of unit is extensive carbonate alteration and carbonate veining; core generally competent; several narrow broken zones;	169.2	224.5	100				164.0	165.0	7	77	<10	50	<5	0.4
									167.0	168.0	6	28	<10	55	<5	0.4
									170.0	171.0	<1	59	14	112	20	<0.1
									173.0	174.0	<1	61	13	83	20	<0.1
									176.0	177.0	2	73	14	311	20	0.1
									179.0	180.0	1	55	14	137	27	<0.1
									182.0	183.0	<1	79	12	108	37	0.1
									185.0	186.0	2	107	10	293	52	<0.1
									188.0	189.0	<1	23	12	97	25	<0.1
									191.0	192.0	3	15	<10	78	16	0.1
									194.0	195.0	1	151	11	76	21	0.1
									197.0	198.0	4	48	13	295	26	<0.1
224.5	231.7	**CATACLASITE/FAULT/BRECCIA ZONE:** irregular fragments of fawn volcaniclastic sediments, shale and siltstone set in dark gray weakly calcareous groundmass; abundant 1-10 mm. white carbonate veins	224.5	228.9	100				200.0	201.0	<1	185	12	103	13	0.3
			228.9	229.3	30											
			229.3	231.7	100				203.0	204.0	1	130	12	136	31	0.1

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
224.5	231.7	and groundmass calcareous; 3-5% pyrite, locally 5-8%, as stringers and veins associated with carbonate veins; coarse euhedral grains and aggregates in groundmass and disseminated in larger clasts; apparent irregular bedding at 245.4 m., but possibly just large clasts; ground conditions moderately good except for 228.5-229.3 m., which is siliceous and very broken, with some core loss;							206.0	207.0	2	98	11	242	7	0.1
									209.0	210.0	6	42	11	199	9	0.1
									212.0	213.0	224	309	12	132	14	0.5
									215.0	216.0	4	42	13	116	<5	0.1
									218.0	219.0	9	40	<10	49	71	1.1
									221.0	222.0	2	<5	<10	44	13	0.6
231.7	236.7	**CALCAREOUS AND PYRITIC SEDIMENTS:** light gray and buff brown fine grained sediments; (volcaniclastic in part?); calcareous matrix especially in gray sections; BCA 45°; network 1-5 mm white carbonate veins; 235.9 m: 300 mm. vein white brecciated carbonate; 3-5% pyrite overall, but locally to 10%, as coarse grained veins parallel to carbonate veins, bedding parallel seams, coarse disseminated grains and euhedral crystals in sediments; **234.5 m:** 400 mm. zone of massive euhedral pyrite infilling vuggy zone;	231.7	236.7	100				223.0	224.5	2	9	<10	37	10	0.2
									224.5	226.0	3	7	<10	24	15	0.4
									226.0	227.0	4	103	<10	34	16	0.6
									227.0	228.0	3	15	<10	27	9	0.7
									228.0	229.3	17	20	<10	24	74	2.2
									229.3	231.0	13	16	<10	30	20	1.8
									231.0	231.7	13	18	<10	19	<5	2.0
									231.7	233.0	32	30	<10	18	26	3.3
									233.0	234.0	10	<5	<10	23	78	3.9
									234.0	235.0	5	<5	<10	21	53	7.0
									235.0	236.7	11	8	<10	26	33	1.7
236.7	244.8	**BRECCIA (CATACLASITE), siliceous and pyritic:** silicified breccia zone with abundant pyrite; clasts generally 5-25 mm, of quartzite, shale, set in a groundmass of light gray-white quartz; minor late stage quartz-carbonate veining; 10% pyrite throughout but locally massive and semi-massive; occurs as veinlets, seams in the matrix, and disseminated grains and aggregates in the clasts; **below 239.7 m:** core strongly leached with dark brown vuggy appearance for most of the basal section; ground conditions good, but generally soft.....	236.7	244.8	100				236.7	238.0	17	12	<10	21	<5	3.0
									238.0	239.0	14	16	<10	30	18	2.5
									239.0	240.0	18	14	<10	26	<5	6.4
									240.0	241.0	15	12	<10	26	17	9.8
									241.0	242.0	16	10	<10	20	10	7.0
									242.0	243.0	18	8	<10	20	<5	5.5
									243.0	244.8	15	12	<10	16	5	8.2

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
236.7 continued.....	244.8	below 239.7 m; minor narrow broken zones; some secondary coarse euhedral pyrite along water worn joints;														
									245.0	246.0	8	9	<10	18	98	2.3
244.8	340.0	**QUARTZITES (some volcaniclastics?), silicified, calcareous, pyritic, minor breccias:**	244.8	340.0	100											
									248.0	249.0	15	9	<10	18	22	2.8
		thick sequence of light gray quartzites, siltstones, possibly minor volcaniclastic component;														
									251.0	252.0	2	<5	<10	19	39	1.7
		extensive carbonate veining and carbonate flooding throughout the quartzite groundmass;														
									253.5	254.0	<1	<5	<10	23	114	9.1
		extensive silicification accompanied by light brown soft beds of sericitic alteration; minor brecciated zones;														
									256.0	257.0	1	<5	<10	35	93	2.9
									259.0	260.0	4	<5	<10	19	75	2.4
		generally 2-3% pyrite, but some intervals of massive to semi-massive fine grained pyrite; secondary pyrite along joints and infilling vugs;														
									262.0	263.0	1	5	<10	24	117	1.0
									265.0	266.0	5	<5	<10	28	69	1.7
		BCA variable but generally 40-50°; core moderately competent;														
									270.0	271.0	4	<5	<10	22	130	1.7
									271.0	272.0	6	<5	<10	30	125	4.6
		244.8-274.0 m: light gray quartzite-siltstone possibly with minor volcaniclastic component;							272.0	273.0	7	15	<10	34	92	4.7
									273.0	274.0	9	7	<10	41	85	3.5
		several narrow brecciated bands; pervasive and abundant silica and carbonate flooding; carbonate present in groundmass and as network of 1-5 mm. veins;														
									276.0	277.0	5	<5	<10	36	54	3.6
									279.0	280.0	7	8	<10	34	104	5.4
		widespread light brown sericitic alteration of finer grained beds;							280.0	281.0	5	5	<10	29	118	5.9
		sericitic alteration alternating with silica and carbonate flooding commonly produces fine banded appearance;							283.0	284.0	5	7	<10	24	85	1.5
									286.0	287.0	14	6	<10	21	21	4.1
		BCA variable but generally 50-60°; 3-5% pyrite disseminated and as streaks and veinlets associated with carbonate and silica alteration and as fracture fillings;														
									289.0	290.0	10	<5	<10	19	<5	1.8
		253.5 m: 400 mm semi-massive fine grained pyrite and quartz; overall core competent;							292.0	293.0	7	<5	<10	17	<5	2.2
									295.0	296.0	14	<5	<10	18	<5	3.6
		271.2-273.5 m: bands of fine grained semi-massive pyrite, intense silicification and cut..							298.0	299.0	69	7	<10	11	<5	4.6

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 004

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
244.8 continued.....	340.0	by carbonate veins; **274.0-283.6 m:** quartzite similar to above but with more carbonate and quartz veining and pervasive flooding, but with less pyrite (1-3%); carbonate commonly leached resulting in vuggy appearance with coarse euhedral pyrite lining vugs; BCA usually obscured, but fabric of rock suggests 40-50°; core moderately competent; **283.6-298.0 m:** sediments brecciated by silica and carbonate flooding; soft and puggy to 285.0 m., suggesting minor faulting; 3-5% pyrite, locally to 10%, as coarse patches, veinlets and disseminations associated with the carbonate and silica flooding (alteration); also disseminated and as blebs within clasts and disrupted blocks of sediment; basal section has original pyroclastic appearance; ground conditions good except for puggy section at 283.6 m; **298.0-340.0 m:** light gray, coarse to medium grained quartzite, with thin sericitic finer grained bands; abundant carbonate alteration both flooding into the groundmass of quartzite and as abundant 1-10 mm. white carbonate veins; silicification widespread also; BCA varies 30-70°, but generally 40-50°; 3-5% pyrite as blebs, aggregates and disseminations usually associated with carbonate and silica alteration; below 334.5 m., significant decrease in carbonate and silica alteration and veining; ground conditions very good except for last metre; **END OF HOLE**							301.0	302.0	49	16	<10	19	11	3.3
									304.0	305.0	46	21	<10	20	<5	3.5
									307.0	308.0	20	23	<10	18	72	1.9
									310.0	311.0	8	9	<10	19	116	1.1
									313.0	314.0	4	13	<10	78	79	1.0
									316.0	317.0	7	7	<10	19	44	1.8
									319.0	320.0	26	21	<10	19	51	2.8
									322.0	323.0	17	11	<10	19	46	2.2
									325.0	326.0	10	<5	<10	19	31	1.3
									328.0	329.0	6	<5	<10	21	6	0.5
									331.0	332.0	9	13	<10	31	88	1.0
									334.0	335.0	10	8	<10	25	52	1.4
									337.0	338.0	10	<5	<10	18	<5	0.7

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Commenced:	05 January 00
Completed:	13 January 00
Logged By:	L.A.Newnham
Drilled By:	DDT

Purpose of Hole

to test a strong IP and gold geochemical anomaly to the west of NB 002 and 003;

Comments on Completion

hole intersected sequence of interbedded quartzites and debris flows, overlain by interbedded carbonaceous shales and siltstones, in turn overlain by sequence of mafic volcanics and shallow intrusives; all units suffered extensive silica-carbonate-pyrite alteration;
no significant gold or base metal mineralisation was intersected;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5307680	364030	2120	-50	360

Length (m)
331.8

Hole Size

To (m)	Size
7	HW
202.9	HQ
331.8	NQ

Significant Core Loss Zones

From	To	%Rec.
0.0	36.0	see log
79.0	90.0	see log

Hole Condition on Completion

all steel rods and casing removed from hole;

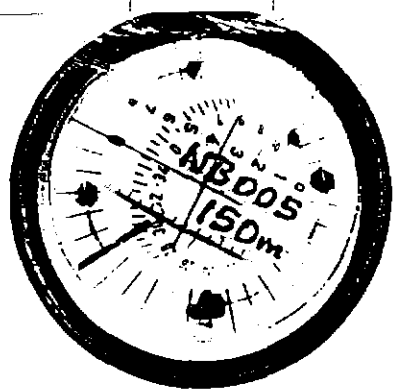
Summary of Results:

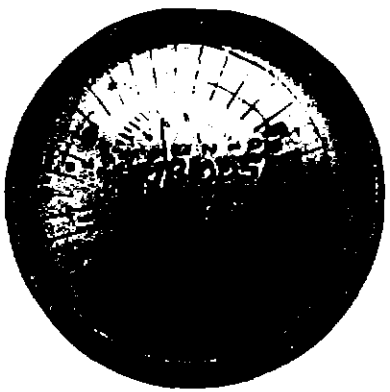
Depth		Recovery	Description	Assays							
From	To	%		Length	ppm Au	Cu	Pb	Zn	%S		
			no significant gold or base metal mineralisation intersected								

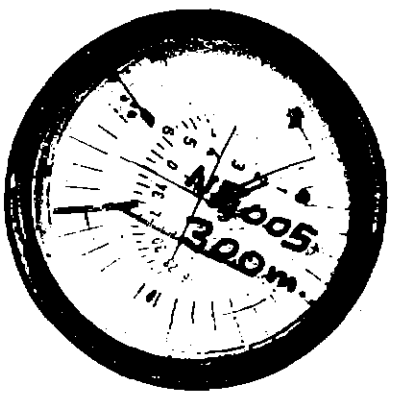
DOWN HOLE SURVEY DATA

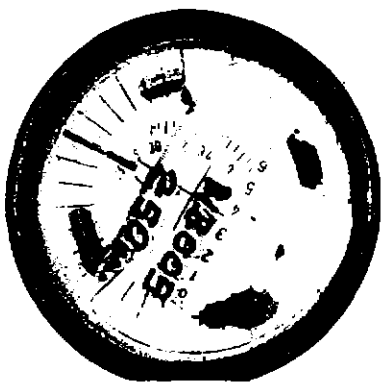
COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-50	360					2120.00		0.00		5,307,680.0		364,030.0
0	-50	360	0	25	25	19.15	2100.85	16.07	16.07	16.07	5,307,696.1	-0.00	364,030.0
50	-53	360	25	75	50	39.93	2060.92	30.09	46.16	30.09	5,307,726.2	-0.00	364,030.0
100	-54	359	75	125	50	40.45	2020.47	29.39	75.55	29.38	5,307,755.5	-0.51	364,029.5
150	-54	359	125	175	50	40.45	1980.02	29.39	104.94	29.38	5,307,784.9	-0.51	364,029.0
200	-53	360	175	225	50	39.93	1940.08	30.09	135.03	30.09	5,307,815.0	-0.00	364,029.0
250	-54	1	225	275	50	40.45	1899.63	29.39	164.42	29.38	5,307,844.4	0.51	364,029.5
300	-53	2	275	316	41	32.74	1866.89	24.67	189.09	24.66	5,307,869.1	0.86	364,030.3
332	-53	2	316	332	16	12.78	1854.11	9.63	198.72	9.62	5,307,878.7	0.34	364,030.7
332													









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COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
0.0	7.0	**No core; HW tricone:**	0.0	7.0	0											
7.0	12.0	**WEATHERED DIORITE or GABBRO:** remnant block dark green chloritic diorite or gabbro in orange-brown clay;	7.0	10.5	60											
			10.5	13.5	50											
			13.5	16.5	65											
12.0	23.5	**WEATHERED SEDIMENTS:** cream-orange clays, and severely weathere bedded sediments; BCA 60°;	16.5	19.5	70											
			19.5	22.5	80											
			22.5	25.0	75											
23.5	30.2	**GABBRO:** dark green fine-medium grained gabbro, relatively fresh; pervasive carbonate alteration in the form of abundant anastomosing 1-5 mm veins, and as a component in gabbro; rare specs of disseminated fine grained pyrite; core moderately competent, some rubbly zones;	25.0	30.0	100				25.0	26.0	11	61	24	98	29	0.3
									28.0	29.0	1	50	18	57	20	0.2
30.2	40.7	**FINE GRAINED SEDIMENT:** fine-medium grained siltstone, dark gray when fresh, buff brown when altered or weathered; BCA 70°, but locally to 40°; graded bedding suggest beds face up-hole; 1-10 mm carbonate veins common; possible volcaniclastic component; minor coarse grained euhedral pyrite associated with carbonate veins; core very broken; reduced to clay and rubble in places; sharp contact 70° CA with gabbro below;	30.0	31.3	55				37.0	38.0	17	26	<10	37	21	<0.1
			31.3	32.1	60											
			32.1	32.6	80				39.0	40.0	20	6	<10	21	32	0.8
			32.6	33.6	90											
			33.6	34.0	30											
			34.0	34.2	100											
			34.2	34.9	20											
			34.9	36.0	15											
			36.0	36.7	20											
			36.7	37.0	100											
			37.0	37.5	90											
			37.5	40.6	100											
40.7	44.1	**GABBRO:** dark green gabbro as for 23.5 m. ..... above; pervasive carbonate alteration and veining; only rare specs of pyrite; core broken along numerous rough fracture surfaces; sharp FW contact 45° CA;	40.6	44.1	100				41.0	42.0	3	135	18	57	31	0.1
									43.0	44.0	<1	80	22	92	33	0.1

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
44.1	48.0	**SILTSTONE:** fine grained, dark gray-brown siltstone; pervasive carbonate alteration in the form of anastomosing network of fine 1-5 mm white carbonate veins; BCA variable 40-60°; only rare pyrite, generally as grains associated with carbonate veining; core broken, often reduced to rubble;	44.1	48.0	100				45.0	46.0	10	5	12	33	44	0.5
48.0	80.8	**GABBRO:** as for 40.7 m....., but less carbonate alteration; only minor carbonate alteration above 63.0 m; **below 63.0 m:** 1-20 mm. carbonate and quartz-carbonate veining becoming more common; trace pyrite as small grains in carbonate and quartz-carbonate veins; core moderately competent but still numerous fractures associated with several joint sets; finer grained rubbly margins suggest dike like nature;	48.0	79.1	100				47.0	48.0	4	98	12	38	24	0.2
			79.1	80.8	75				49.0	50.0	7	72	20	69	31	0.1
									52.0	53.0	5	124	21	110	33	0.1
									55.0	56.0	<1	166	24	120	27	0.2
									58.0	59.0	2	92	58	462	33	0.3
									61.0	62.0	3	88	14	159	34	<0.1
									64.0	65.0	<1	63	16	95	33	0.1
									67.0	68.0	<1	84	15	65	27	0.1
									70.0	71.0	<1	162	15	121	22	0.1
									73.0	74.0	1	92	18	96	30	<0.1
80.8	177.1	**INTERBEDDED SANDSTONE and SHALE:** interbedded dark gray-black carbonaceous and pyritic shale interbedded with medium gray, medium-coarse grained silicified sandstone; **80.8-83.0 m:** shale, clayey and broken; **83.0-92.0 m:** black shale with abundant fine white spotting; very broken; **87.7-92.0 m:** black shale with numerous 1-5 mm bands massive diagenetic pyrite; BCA 70-80; very broken; **92.0-103.5 m:** sandy shale; BCA 80°; very broken; **103.5-111.0 m:** medium-coarse grained silicified sandstone; 1-2% disseminated pyrite; rubbly, very broken; **111.0-150.5 m:** black-dark gray shale; sandy	80.8	83.8	60				76.0	77.0	3	69	15	101	26	<0.1
			83.8	84.7	95											
			84.7	85.5	50											
			85.5	86.4	80				79.0	80.0	3	123	16	56	59	0.3
			86.4	87.7	50											
			87.7	90.7	60											
			90.7	92.6	90				83.0	84.0	9	11	<10	12	14	1.7
			92.6	94.4	100											
			94.4	97.2	70				85.0	86.0	3	12	<10	13	16	1.7
			97.2	97.5	60											
			97.5	100.5	100				88.0	89.0	1	14	11	14	21	1.6
			100.5	102.1	90											
			102.1	103.3	100				91.0	92.0	2	11	10	11	20	2.8
			103.3	105.2	50											
			105.2	106.4	100				94.0	95.0	5	15	<10	12	21	2.1
			106.4	107.5	70											
			107.5	109.2	85				97.0	98.0	9	10	<10	13	16	1.9
			109.2	109.9	100											

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Description			Core Recovery			RQD			Assays							
From	**To**		**From**	**To**	**%**	**From**	**To**	**%**	**From**	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
80.8 continued.....	177.1	in parts; 3-5% fine grained syngenetic/diagenetic pyrite; not much pyrite in veining; BCA uniform 80°; core very broken, especially along bedding planes; **150.5-158.1 m:** light-medium gray fine-medium grained interbedded sandstone and siltstone; irregular 1-10 mm quartz-carbonate veins common; bedding suggests facing up hole; 2-3% pyrite as fine-medium disseminated grains and clusters associated with quartz-carbonate veining; core very broken, especially along bedding planes; **158.1-162.5 m:** slumped light gray siltstone and minor sandstone; BCA variable 20-50°, but appears conformable with units above and below; numerous quartz-carbonate veins; 1-2% pyrite as coarse disseminated euhedral grains and aggregates associated with quartz-carbonate veining; core very broken; **162.5-177.1 m:** interbedded dark gray shales and medium gray medium-fine grained sandstone-siltstone; BCA 80-90°; some bedding possibly suggests facing down hole; 1-10 mm. quartz-carbonate veins as irregular network, abundant in places, particularly towards base of unit; overall 2-3% pyrite, but increasing to 5-10% in bottom section of interval as fine grained pervasive disseminated grains and in bedding conformable seams of massive and semi-massive fine grained pyrite; also small clots and coarse grains associated with quartz-carbonate veining; core moderately competent, but still numerous fractures mainly parallel to	109.9 111.1 123.1 124.8 130.2 131.0 132.1 132.9 134.2 136.1 137.7 158.1 162.3 177.7	111.1 123.1 124.8 130.2 131.0 132.1 132.9 134.2 136.1 137.7 158.1 162.3 177.7	90 100 90 100 60 50 80 100 40 15 100 100 100				100.0 105.0 107.0 109.0 111.0 114.0 117.0 120.0 123.0 125.0 127.0 130.0 133.0 138.0 141.0 143.0 145.0 148.0 151.0 154.0	101.0 106.0 108.0 110.0 112.0 115.0 118.0 121.0 124.0 126.0 128.0 132.0 134.0 139.0 142.0 144.0 146.0 149.0 152.0 155.0	18 19 14 16 10 11 6 12 29 9 14 14 13 28 54 36 33 29 9 8	15 7 6 11 11 14 13 8 15 16 14 15 10 13 22 17 19 20 <5 13	<10 <10 <10 <10 12 11 <10 <10 12 <10 <10 12 <10 10 19 15 12 15 <10 <10	12 13 12 13 11 14 11 14 15 13 22 15 15 11 12 19 14 16 14 14	25 <5 <5 6 23 23 18 12 19 20 22 12 10 17 27 23 18 24 11 5	2.3 0.9 0.5 0.9 2.3 1.8 1.4 2.3 2.0 1.6 1.8 1.8 1.8 2.4 2.7 3.1 3.7 2.5 1.3 1.5

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Description			Core Recovery			RQD		
From	**To**		**From**	**To**	**%**	**From**	**To**	**%**
80.8 continued.......	177.1	bedding; principal joint set sub-parallel to CA, resulting in several narrow very broken zones;						
177.1	185.7	**MIXED DEBRIS FLOW and SANDSTONE:** coarse light gray-brown conglomeratic unit which appears to be a form of debris flow; irregular angular fragments shale, sandstone and volcanics (?) set in coarse grained siliceous groundmass; **184.1-185.0 m:** white quartz-carbonate-felspar vein with approx 30% of dark brown sooty material, often with a hexagonal section; 2-3% disseminated pyrite both within the clasts and as pervasive coarse euhedral disseminated grains in the groundmass; margins of unit diffuse /gradational; core soft but competent;	177.7	185.7	100			
185.7	198.7	**SLUMPED SILTSTONE:** light gray siltstone-sandstone interbedded with cream-buff siltstone; similar to 158.1 m. bedding erratic 20-60° CA; facing generally up-hole; abundant irregular 1-5 mm. quartz-carbonate veins; 1-2% disseminated pyrite, locally to 5%, as coarse euhedral grains in the sediments, and as clots and aggregates in the quartz-carbonate veins; core only moderately competent; strongly fractured by several joint sets;	185.7	198.7	100			
198.7	296.8	**DEBRIS FLOW UNIT with interbedded QUARTZITE:** irregular fragments of sandstone, and shale set in light gray-brown siliceous and calcareous groundmass, in which quartz is medium-coarse grained and carbonate is variably leached; where calcareous component in groundmass has been leached/altered to soft talc, the rock	198.7	202.9	100			
			202.9	205.3	85			
			205.3	250.0	100			
			250.0	252.2	90			
			252.2	296.8	100			

Assays							
From	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
157.0	158.0	8	20	13	14	15	1.7
159.0	160.0	8	6	<10	10	32	1.5
161.0	162.0	5	6	<10	47	6	1.8
164.0	165.0	5	8	12	15	17	1.7
167.0	168.0	5	<5	<10	12	19	1.2
170.0	171.0	7	7	12	18	26	1.4
173.0	174.0	9	78	15	15	26	3.3
174.0	175.0	15	11	16	27	21	3.1
175.0	176.0	4	12	14	9	24	2.2
176.0	177.0	7	9	14	11	19	3.8
178.0	179.0	3	<5	<10	57	21	2.0
180.0	181.0	5	7	<10	56	22	2.5
182.0	183.0	1	11	<10	52	25	2.8
184.1	185.0	<1	<5	<10	34	18	0.7
186.0	187.0	2	<5	<10	11	26	0.7
188.0	189.0	2	<5	10	17	26	3.7
190.0	191.0	5	<5	<10	19	20	2.7
192.0	193.0	1	<5	11	31	34	1.8
194.0	195.0	2	<5	12	23	25	0.3
196.0	197.0	2	<5	<10	20	17	0.1
199.0	200.0	7	17	<10	78	35	3.9

67134

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
198.7 continued.....	296.8	is very soft and puggy, often with clasts set in remnant sandy clay; where carbonate has been less altered/ leached, the rock is more competent; **206.0-207.8 m:** soft creamy colored siltstone unit; 1-2% pyrite as medium-coarse euhedral crystals, disseminated throughout the groundmass and in the clasts; locally 3-5% pyrite, ocassionally to 10% (eg) 205.8-206.1 m., and 207.8-208.1 m., (ie) on the margins of this unit; **below 238 m:** alteration of carbonate to talc-sericite becoming more advanced with development of soft pug zones and broken core; **241.2-252.2 m:** interstitial carbonate completely removed/altered and core reduced to very soft puggy breccia; carbonate appears to have been replaced by talc and sericite; 1-2% pervasive coarse euhedral pyrite; possibly part of the alteration process; several harder bands but overall totally incompetent unit; **252.2-255.6 m:** cobble sandstone debris unit as for 198.7 m..... carbonate replacement/alteration not as advanced; 1-2% pyrite; several soft clayey pug zones; **255.6-258.0 m:** light gray strongly calcareous sandstone; abundant quartz-carbonate veins; 3-5% finely disseminated pyrite; **258.0-262.4 m:** fractured and brecciated light gray sandstone with interstitial carbonate and numerous quartz-carbonate veins; 2-3% pyrite in clasts and disseminated in groundmass; **262.4-269.7 m:** calcareous sandstone or sandy limestone; swirling irregular layering, brecciated in places;								202.0	202.9	<1	17	<10	91	37	3.6
									205.5	206.5	1	<5	<10	32	24	3.3
									208.0	209.0	1	<5	<10	35	24	1.5
									211.0	212.0	6	7	<10	42	44	3.8
									214.0	215.0	6	7	<10	50	34	3.1
									217.0	218.0	5	<5	<10	61	23	0.2
									220.0	221.0	1	8	<10	49	19	0.1
									223.0	224.0	2	<5	<10	82	32	0.6
									226.0	227.0	2	<5	<10	47	24	0.3
									229.0	230.0	4	<5	<10	79	31	0.4
									232.0	233.0	2	11	<10	50	16	0.1
									235.0	236.0	1	8	<10	57	14	0.1
									237.0	238.0	2	6	<10	65	24	2.7
									241.0	242.0	7	9	<10	78	28	3.8
									244.0	245.0	6	13	<10	64	27	3.1
									247.0	248.0	7	17	<10	82	34	3.8
									250.0	251.0	3	<5	<10	56	36	2.2
									253.0	254.0	4	7	<10	53	33	2.5
									256.0	257.0	2	29	<10	20	35	1.6
									259.0	260.0	2	12	<10	29	31	2.2

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
198.7 continued.....	296.8	abundant thin carbonate and quartz-carbonate veins, coarsely crystalline in places; 2-3% pervasive fine grained pyrite becoming more abundant 5-10% towards base of unit; vuggy features between 268.0-269.5 m. are evidence of water movement; **269.7-274.3 m:** calcareous sandstone, strongly fractured and brecciated and replaced by interstitial quartz and carbonate; 1-2% pyrite; **274.3-296.8 m:** debris flow with calcareous matrix as for 198.7 m..... minor calcareous sandstone beds; between 289.5-292.3 m., several large vuggy white quartz-carbonate masses with massive pyrite patches in places; 1-2% pyrite, locally to 5%; ground soft but moderately competent;							262.0	263.0	5	8	<10	25	34	2.3
									265.0	266.0	5	11	<10	37	49	2.9
									268.0	269.0	4	21	<10	19	50	1.7
									269.0	270.0	4	19	<10	15	49	1.8
									272.0	273.0	1	6	<10	41	27	1.4
									275.0	276.0	10	10	<10	47	21	2.6
									278.0	279.0	8	11	<10	52	21	2.7
									281.0	282.0	7	9	<10	56	28	3.0
									284.0	285.0	3	8	<10	70	23	3.5
									287.0	288.0	6	28	10	36	25	3.8
296.8	331.8	**INTERBEDDED SILTSTONE-SANDSTONE-DEBRIS FLOW UNITS - extensive quartz-carbonate alteration:** **296.8-304.8 m:** light brown fine grained siltstone; quartz and quartz-carbonate as abundant fine veins and ocassional larger masses; 1-2% pyrite, locally to 4%, as fine disseminated grains and associated with veining; **304.8-314.4 m:** medium gray, medium grained calcareous sandstone; extensively brecciated and cut by 1-10 mm carbonate and quartz-carbonate veins; minor debris flow bands; 1-2% disseminated euhedral pyrite; locally more abundant; water movement evidenced by vuggy nature, especially near base of unit; **314.4-319.3 m:** debris flow unit similar to 274.3 m.....; BCA 70°, facing up hole:	296.8	331.8	100				289.0	290.0	3	16	<10	46	36	2.5
									290.0	291.0	4	10	<10	46	33	2.8
									291.0	292.3	5	61	<10	55	41	4.5
									294.0	295.0	4	20	<10	46	32	3.1
									296.0	297.0	2	26	10	58	30	4.4
									299.0	300.0	3	<5	14	23	29	1.4
									302.0	303.0	4	<5	12	24	22	3.5
									305.0	306.0	5	<5	<10	23	22	2.7
									308.0	309.0	8	21	<10	39	10	2.4
									311.0	312.0	4	17	<10	23	13	2.6
									314.0	315.0	3	18	<10	35	22	2.7

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 005

Description			Core Recovery			RQD			Assays							
From	**To**		**From**	**To**	**%**	**From**	**To**	**%**	**From**	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
296.8-331.8 continued.....		**319.3-331.8 m:** light gray siltstone-quartzite unit; ocassional creamy-white carbonate beds; minor thin carbonate veins; 1-2% fine-medium grained disseminated euhedral pyrite; creamy carbonate beds contain abundant fine pyrite; **END OF HOLE**							317.0	318.0	4	15	<10	93	35	2.6
									320.0	321.0	4	<5	<10	31	8	0.6
									323.0	324.0	6	<5	16	20	32	0.3
									326.0	327.0	4	<5	11	16	23	0.2
									329.0	330.0	1	<5	12	17	31	0.2

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Commenced:	10 January 00
Completed:	24 January 00
Logged By:	L.A.Newnham
Drilled By:	DDT

Purpose of Hole
to test a large zone which was mapped on surface as being strongly altered (silica-pyrite); minor geochemical anomalism;

Comments on Completion
hole intersected thin section of volcanics underlain by a mixed sedimentary sequence of siltstones, sandstones, black shales and debris flows; these have been possibly tightly folded with accompanying shearing and strongly altered (silica-carbonate-sericite-pyrite); minor Au (0.1 g/t) associated with carbonaceous black sheared pyritic sediment between 320.0-324.0 m;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5307540	364500	2125	-50	360

Length (m)
375.1

Hole Size	
To (m)	Size
4	HW
105.1	HQ
375.1	NQ

Significant Core Loss Zones		
From	To	%Rec.
0.0	69.0	see log
218.0	226.0	see log
280.8	285.8	see log
314.0	327.6	see log

Hole Condition on Completion
all steel removed from hole

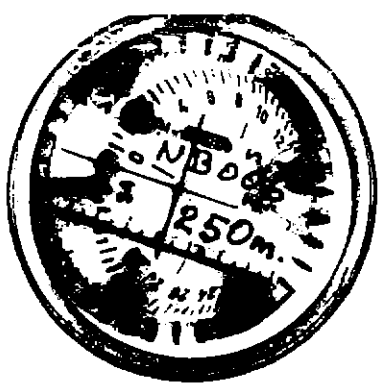
Summary of Results:

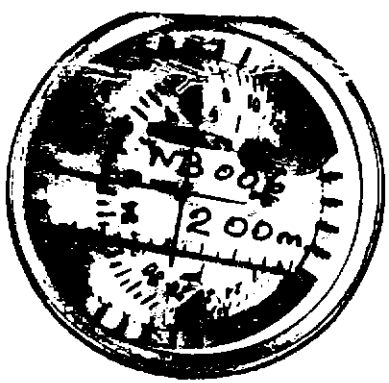
Depth		Recovery	Description	Assays							
From	To	%		Length	ppm Au	Cu	Pb	Zn	%S		
			minor Au (0.1g/t) in pyritic and carbonaceous sediments 320.0-324.0 m;								

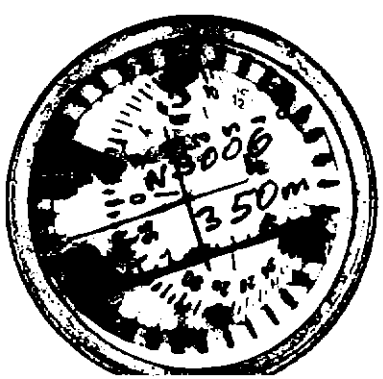
DOWN HOLE SURVEY DATA

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-50	360					2125.00		0.00		5,307,540.0		364,500.0
0	-50	360	0	56.5	56.5	43.28	2081.72	36.32	36.32	36.32	5,307,576.3	-0.00	364,500.0
113	-53	1	56.5	132.5	76	60.70	2021.02	45.74	82.06	45.73	5,307,622.0	0.80	364,500.8
152	-52	4	132.5	176	43.5	34.28	1986.74	26.78	108.84	26.72	5,307,648.8	1.87	364,502.7
200	-52	6	176	225	49	38.61	1948.13	30.17	139.00	30.00	5,307,678.8	3.15	364,505.8
250	-52	4	225	275	50	39.40	1908.73	30.78	169.79	30.71	5,307,709.5	2.15	364,508.0
300	-51	6	275	325	50	38.86	1869.87	31.47	201.25	31.29	5,307,740.8	3.29	364,511.3
350	-51	3	325	362.55	37.55	29.18	1840.69	23.63	224.88	23.60	5,307,764.4	1.24	364,512.5
375.1	-51	3	362.55	375.1	12.55	9.75	1830.94	7.90	232.78	7.89	5,307,772.3	0.41	364,512.9
375.1													







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COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Description			Core Recovery			RQD			Assays							
From	**To**		**From**	**To**	**%**	**From**	**To**	**%**	**From**	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
0.0	4.0	HW tricone, no core;	0.0	4.0	0											
			4.0	5.3	70											
4.0	38.2	**WEATHERED ROCK (volcanic ?), high core losses:**	5.3	8.0	30				11.0	12.9	10	24	12	19	34	<0.1
			8.0	11.0	25											
		severely weathered, broken, rubbly, orange-brown-gray (limonitic) rock; rock remnants in sands and clays;	11.0	12.9	80				16.4	18.2	9	<5	14	15	28	<0.1
			12.9	16.4	50											
		limonite-hematite development suggests original rock may have been pyritic volcanic;	16.4	18.2	50				29.0	30.8	14	17	14	27	20	<0.1
			18.2	20.0	50											
		below 33.0 m., less weathered and appears to be limonitic derivative of mafic, weakly pyritic volcanic;	20.0	21.6	0				33.0	35.0	12	11	12	21	13	0.1
			21.6	23.0	70											
			23.0	24.2	40				36.0	38.0	10	10	<10	29	19	1.3
		significant core losses in places;	24.2	27.4	30											
			27.4	29.0	60											
38.2	69.5	**SEDIMENT ?- INTENSE QUARTZ-SERICITE -CARBONATE-PYRITE ALTERATION:**	29.0	30.8	90				44.0	45.0	12	9	<10	21	16	2.8
			30.8	32.0	80											
		original rock possibly light gray felspathic sandstone or siltstone;	32.0	33.0	90				53.0	54.0	17	<5	13	15	34	2.4
			33.0	35.0	100											
		strongly altered to quartz-sericite rock with significant carbonate conponent;	35.0	36.0	90				62.0	63.0	21	18	14	22	24	6.6
			36.0	38.0	40											
		abundant fine quartz and quartz-carbonate veining with nearly all fine fractures filled with carbonate;	38.0	41.0	30				64.0	65.0	12	22	<10	17	22	4.1
			41.0	44.0	30											
		1-2% disseminated pyrite, locally to 5%;	44.0	47.0	70				66.0	67.0	12	11	<10	14	25	2.1
		ground extremely broken and weathered;	47.0	50.0	50											
		often disaggregated to clay and sand;	50.0	53.0	10											
		below 69.5 m: fresher but still broken;	53.0	54.3	90											
		some core losses;	54.3	56.0	60											
			56.0	57.9	10											
69.5	126.0	**SEDIMENTS, intense quartz-carbonate-sericite-pyrite alteration:**	57.9	59.2	70				70.0	71.0	28	21	19	24	32	4.1
			59.2	62.0	20											
		similar to unit above but fresher;	62.0	63.2	60				72.0	73.0	12	11	<10	22	15	2.0
		original rock possibly fine-medium grained calcareous siltstone and sandstone;	63.2	66.4	100											
			66.4	67.5	50				75.0	76.0	9	12	10	33	19	2.5
		intense quartz-carbonate alteration; streaky development of sericite resulted from alteration;	67.5	69.0	30											
			69.0	69.5	100				78.0	79.0	9	13	15	22	25	2.1
			69.5	71.0	80											
		carbonate alteration so intense in places,gives the appearance of being a limestone;	71.0	74.0	100				80.0	81.0	3	<5	<10	17	19	2.8
			74.0	75.5	80				81.0	82.0	7	<5	<10	26	17	2.2
		intense network of 1-30 mm. quartz-carbonate and carbonate veins throughout;	75.5	126.0	100				82.0	83.0	3	<5	<10	20	21	2.3
		1-2% fine-medium grained euhedral pyrite,							84.0	85.0	6	10	<10	20	24	2.0

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
69.5 continued.....	126.0	generally associated with veining event; locally pyrite 5-10%, concentrated along veins, in sericitic alteration zones and disseminated throughout altered sediments; several narrow less altered shaley bands indicate possible bedding 40-50° CA; core generally fresh and moderately competent although there are a number of very broken rubbly zones;							86.0	87.0	5	12	<10	22	23	2.4
									87.0	88.0	1	<5	<10	23	28	3.0
									88.0	89.0	2	<5	<10	54	24	3.1
									90.0	91.0	8	8	<10	30	28	2.4
									92.0	93.0	7	9	<10	27	28	3.2
									94.0	95.0	6	7	11	16	28	2.9
126.0	148.1	**COARSE GRIT - CONGLOMERATE, silica-carbonate alteration:** light gray coarse sandstone and poorly sorted grit, with minor conglomerate bands; clasts in the gritty sections are normally angular quartz, whilst clasts in the coarser units are commonly larger blocks of dark gray sandstone; groundmass (cement) is dominantly quartz with minor calcareous component; 1-10 mm. quartz and quartz-carbonate veins common; <1% pervasive disseminated euhedral pyrite associated with calcareous silica groundmass; **below 144.5 m:** becomes more sandy with well developed breccia zones; BCA 30°; core moderately competent; some ground water leaching evidenced by vuggy zones;	126.0	140.0	100				96.0	97.0	4	6	<10	21	31	2.1
			140.0	141.9	70				98.0	99.0	11	16	<10	15	36	2.5
			141.9	148.1	100				100.0	101.0	22	29	19	25	45	2.5
									102.0	103.0	9	21	11	17	29	1.9
									104.0	105.0	8	28	17	17	39	2.8
									106.0	107.0	8	19	14	18	44	1.9
									108.0	109.0	6	67	<10	14	39	1.9
									110.0	111.0	3	60	13	27	40	1.5
									112.0	113.0	7	17	11	14	34	1.5
									113.0	114.0	9	21	<10	21	29	1.7
148.1	154.5	**SHALES and SILTSTONES, pyritic:** laminated black pyritic shales interbedded with light gray calcareous siltstone; BCA 30°; appears to be facing down hole; abundant irregular quartz-carbonate veins and large masses; pyrite abundant within the black shales as fine grained disseminated seams; common in the siltstone as coarser grains and clusters; also common in the quartz-carbonate veins; unit moderately competent but common graphite bearing fracturing parallel to.....	148.1	154.5	100				114.0	115.0	6	14	11	26	33	4.5
									115.0	116.0	3	10	<10	23	37	1.9
									117.0	118.0	3	<5	<10	24	46	0.9
									119.0	120.0	3	<5	<10	32	38	1.4
									121.0	122.0	3	6	<10	34	40	1.9
									122.0	123.0	6	22	<10	29	24	1.8
									125.0	126.0	7	8	<10	33	40	2.0

COMPANY: **Pacific-Nevada**
PROJECT: **North Butler**
HOLE NUMBER: **NB 006**

Description			Core Recovery			RQD		
From	To		From	To	%	From	To	%
148.1 continued......	154.5	bedding; pebbly soft sediment brecciation towards base of unit;						
154.5	172.0	**DEBRIS FLOW:** light-dark gray debris flow, with large angular sedimentary clasts set in siliceous and calcareous groundmass; grades into units above and below; possibly represents a diagenetic slumping event, overprinted by a later quartz-carbonate alteration event; 3-5% pyrite, locally up to 10%, principally as medium-coarse disseminated euhedral grains associated with the groundmass and late quartz-carbonate veining; often concentrated as rims around the clasts; ground moderately competent; several broken rubbly zones;	154.5	172.0	100			
172.0	199.1	**SILTSTONE-SANDSTONE, calcareous and pyritic:** light gray, medium-fine grained sandstone, interbedded with finer grained siltstone; top few metres brecciated; BCA uniform 45-50°; possibly facing down hole; groundmass/matrix extremely calcareous; 1-10 mm white quartz-carbonate and carbonate veins common; 1-2% pyrite, locally to 3%, as finely disseminated bedding parallel seams, and coarse grains and aggregates associated with veining; coe moderately competent with most fractures parallel to bedding;	172.0 188.0 190.7	188.0 190.7 199.1	100 90 100			
199.1	207.0	**LAMINATED BLACK SHALES and SILTSTONE, pyritic:** finely laminated black pyritic shales, interbedded with light gray calcareous siltstone; BCA 45-50°;	199.1	207.0	100			

Assays							
From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
127.0	128.0	2	8	<10	17	28	1.1
130.0	131.0	3	8	<10	24	25	1.3
133.0	134.0	2	38	<10	21	11	1.0
136.0	137.0	1	<5	<10	30	15	1.4
139.0	140.0	1	37	<10	60	14	0.7
142.0	143.0	<1	25	<10	22	16	0.9
145.0	146.0	4	12	<10	20	22	1.8
148.0	149.0	27	18	15	21	44	4.9
151.0	152.0	28	21	15	24	44	3.2
154.0	155.0	6	5	11	38	33	2.3
155.0	156.0	3	<5	<10	21	30	2.3
157.0	158.0	3	<5	<10	51	35	3.3
160.0	161.0	3	<5	<10	31	21	3.6
163.0	164.0	2	<5	<10	26	21	2.2
166.0	167.0	2	15	<10	32	25	1.6
169.0	170.0	24	11	<10	22	23	3.0
171.0	172.0	<1	6	<10	36	31	2.2
174.0	175.0	<1	<5	<10	24	18	1.8
177.0	178.0	1	<5	<10	26	17	2.1
180.0	181.0	<1	17	<10	42	25	2.4
183.0	184.0	1	8	<10	30	19	1.8

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COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
199.1	207.0	possibly facing up hole; 3-5% fine grained disseminated pyrite,generally in stratabound seams; up to 5-10% pyrite in shales; core very broken along bedding parallel fractures; **below 205.3 m:** pebbly soft sediment; diagenetic ? brecciation with pyrite rims around clasts, similar to base of 148.1 m;							186.0	187.0	<1	15	<10	25	17	1.3
									189.0	190.0	5	10	<10	28	28	1.9
									192.0	193.0	5	8	<10	36	22	2.5
									195.0	196.0	1	<5	<10	24	23	2.2
									198.0	199.0	6	16	15	22	33	2.3
207.0	217.0	**DEBRIS FLOW:** similar to 154.5 m.....; possibly slumped and brecciated during diagenesis/consolidation; strongly leached with variable removal of calcareous cement; 211.4-212.0 m: reduced to sand; **below 215.5 m:** core has strongly brecciated appearance with large fragments set in calcareous matrix; **NOTE: sequence from 199 m....., appears to be repeat of sequence from 148 m.....;** (ie) either a repetitous sequence or drilled through a tight but significant fold;	207.0	217.0	100				200.0	201.0	19	21	12	9	42	3.2
									202.0	203.0	12	24	14	14	27	2.7
									205.0	206.0	21	28	16	21	40	3.2
									208.0	209.0	2	16	<10	24	24	3.5
									210.0	211.0	5	35	<10	20	30	3.0
									212.0	213.0	3	13	<10	26	21	2.9
									214.0	215.0	6	17	<10	24	34	4.0
217.0	239.7	**INTERBEDDED QUARTZITE, SILTSTONE, minor black shale:** light-dark gray, medium-coarse grined quartzite, interbedded with finer grained light brown siltstone and several laminated black shale beds; BCA uniform 45°; between 221.7-232.0 m: several narrow speckeled bands with felted calcareous matrix possibly a fine grained tuff ? 225.0-226.1 m: breccia zone in black shales with large clasts of variable compositions set in black shaley-quartz-carbonate matrix; thin quartz and quartz-carbonate veins common, often abundant; 1-2% pervasive fine grained disseminated pyrite; often coarser euhedral grains when.....	217.0	218.0	100											
			218.0	220.3	85				216.0	217.0	42	23	15	22	39	3.3
			220.3	220.9	100											
			220.9	221.7	60				219.0	220.0	9	9	12	23	19	2.3
			221.7	224.6	60											
			224.6	226.6	100				222.0	223.0	7	12	13	20	38	2.5
			226.6	226.9	0											
			226.9	228.0	60				225.0	226.0	82	18	17	20	29	2.7
			228.0	229.2	100											
			229.2	229.6	75				228.0	229.0	11	12	12	26	18	3.0
			229.6	232.3	100											
			232.3	234.4	95				231.0	232.0	17	16	<10	21	40	2.9
			234.4	235.7	100											
			235.7	237.0	90				234.0	235.0	4	11	<10	24	10	1.9
			237.0	238.6	100											
			238.6	240.6	80				237.0	238.0	31	11	<10	20	9	2.2

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Description		
From	**To**	
217.0	239.7	concentrated along quartz and quartz-carbonate veins; overall ground conditions poor with some rubble intervals; significant core loss;
239.7	254.5	**BLACK GRAPHITIC SHALE:** black strongly laminated black shales, highly graphitic in parts; BCA 60°; facing up hole; thin discontinuous quartz veins common; 3-5%, locally to 10%, fine grained pyrite as disseminated and narrow semi-massive bedding parallel seams; core very broken, puggy in some intervals;
254.5	307.0	**SILTSTONE-QUARTZITE, pervasive silica-carbonate-pyrite alteration:** light-medium gray, interbedded medium grained calcareous siltstone and quartzite; abundant quartz and quartz-carbonate veining; abundant pervasive pyrite; **254.5-270.5 m:** interbedded siltstone, quartzite and narrow bands up to 150 mm., of dark gray-black fine grained material with abundant fine white spots (? leucoxene); BCA generally 60°; 1-10 mm. carbonate and quartz-carbonate veins common; 3-5% pyrite as pervasive fine disseminations and coarser grains associated with quartz-carbonate veining; core fractured and fissile; **270.5-307.0 m:** monotonous sequence light gray soft sericitic siltstones, quartzite and calcareous siltstone or silty carbonate; 288.5-294.2 m: several dark gray -black speckeled beds as for 254.5 m.....; 1-10 mm. white quartz-carbonate veins abundant, often ptygmatically folded; BCA 60°; 3-5% pyrite, locally to10%, as pervasive fine grained disseminated and coarse euhedral.....

Core Recovery		
From	**To**	**%**
240.6	241.8	100
241.8	243.1	75
243.1	245.5	80
245.5	247.2	90
247.2	248.3	60
248.3	249.9	100
249.9	251.0	90
251.0	254.5	100
254.5	280.8	100
280.8	282.2	65
282.2	283.3	100
283.3	284.6	50
284.6	285.8	60
285.8	286.9	100
286.9	288.4	80
288.4	289.7	100
289.7	290.9	90
290.9	292.6	60
292.6	294.4	40
294.4	300.6	100
300.6	301.7	80
301.7	304.8	100
304.8	306.2	85
306.2	307.0	100

RQD		
From	**To**	**%**

Assays							
From	**To**	**Au ppb**	**Cu ppm**	**Pb**	**Zn**	**As**	**% S**
241.0	242.0	35	20	17	15	34	2.8
243.0	244.0	83	25	13	14	34	3.1
245.0	246.0	58	15	<10	13	24	3.0
248.0	249.0	51	15	<10	17	25	3.3
250.0	251.0	79	32	12	12	29	3.0
253.0	254.0	52	26	11	13	26	3.7
256.0	257.0	7	11	<10	20	16	2.1
259.0	260.0	7	14	<10	17	10	2.1
262.0	263.0	11	12	<10	24	15	4.0
265.0	266.0	9	12	<10	14	11	1.9
268.0	269.0	11	11	<10	11	16	1.8
271.0	272.0	7	7	<10	15	10	2.2
274.0	275.0	3	<5	<10	20	13	1.4
277.0	278.0	3	<5	<10	15	9	1.7
280.0	281.0	5	<5	<10	15	6	1.9
283.0	284.0	12	8	<10	17	6	4.1
286.0	287.0	11	5	<10	18	15	4.8
289.0	290.0	20	11	<10	17	10	2.1
295.0	296.0	3	<5	<10	14	22	1.5
297.0	298.0	7	9	<10	18	23	2.4

441229

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
254.5 continued.....	307.0	grains associated with quartz-carbonate veins and quartz masses and fracture fillings (ie) a late stage event; core very broken and leached with several narrow pug zones;							299.0	300.0	5	<5	<10	15	14	2.0
									300.0	301.0	4	<5	<10	17	17	2.9
									303.0	304.0	6	<5	<10	11	16	2.5
									304.0	305.0	5	<5	<10	13	15	3.0
307.0	313.8	**SEDIMENTS, contorted, quartz veined and pyritic:** sequence of dark gray highly contorted quartzites; several gray pug zones; abundant quartz-carbonate and carbonate veins; 3-5% pyrite, but locally as semi-massive and narrow massive seams; pyrite pervasive in quartzite as fine grained disseminations and as aggregates and clusters associated with veining event; phyllitic texture in places results in moderately broken core; contorted texture suggests strongly affected by fault zone below;	307.0	314.0	100				306.0	307.0	40	9	12	13	37	3.9
									308.0	309.0	26	6	<10	19	14	5.5
									309.0	310.0	40	7	14	15	26	4.3
									310.0	311.0	47	12	19	15	28	4.7
									311.0	312.0	32	54	10	19	28	4.6
									312.0	313.0	55	12	12	13	28	4.6
									313.0	314.0	138	22	<10	15	27	5.1
313.8	333.0	**FAULT ZONE, DISRUPTED SEDIMENTS:** **313.8-333.0 m:** broken and brecciated sediments; abundant quartz-carbonate and carbonate veins, often separated by dark gray-black rubble and pug zones; pyrite abundant in several forms: as 1-10 mm seams or veins of semi-massive pyrite, including some massive bands set in pug zones (eg) 316.4-316.5 m; also as pervasive fine grained disseminations, often up to 10%, in sediments; and as coarser aggregates of euhedral crystals associated with carbonate veining; **320.5-324.4 m:** dark gray-black sheared carbonaceous sediments with several narrow pug zones; strongly developed cleavage/bedding sub-parallel to CA;	314.0	315.2	95				314.0	315.2	1	<5	<10	14	7	0.3
			315.2	317.0	50				315.2	317.0	73	17	13	21	50	6.5
			317.0	317.8	100				317.0	318.0	55	13	12	16	49	5.3
			317.8	319.1	90				318.0	319.0	24	15	<10	20	28	5.5
			319.1	320.5	60				319.0	320.5	62	13	12	17	51	7.1
			320.5	322.3	100											
			322.3	324.5	85				321.0	322.0	131	19	14	14	40	4.6
			324.5	327.6	20											
			327.6	332.2	100				323.0	324.0	107	18	13	17	32	3.9
			332.2	333.0	90											
									328.0	329.0	21	8	<10	15	27	3.5
									329.0	330.0	2	<5	<10	10	28	1.6
									330.0	331.0	9	5	<10	13	29	3.0
									331.0	332.0	5	<5	<10	13	22	2.4

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
313.8 continued.....	333.0	5-10% pyrite as seams parallel to cleavage, large aggregates and abundant fine disseminated grains; core very broken along slatey cleavage; **324.4-333.0 m:** light brown-light gray strongly brecciated and cleaved sediments; abundant quartz and quartz-carbonate veins; several substantial pug zones; 5-10% pyrite as in section above;														
333.0	338.5	**ALTERED SILTSTONE, "phyllitic" cleavage:** light gray-light brown soft sericitic siltstone with pronounced "phyllitic" bedding plane cleavage; B/ cleavage CA 50°; abundant thin quartz and quartz-carbonate veins; 2-3% pyrite as fine-medium pervasive disseminated grains, locally higher in narrow bedding parallel seams; core very broken along bedding/ cleavage; rubble in some sections;	333.0	335.0	80				334.0	335.0	4	6	12	17	17	3.5
			335.0	336.6	90											
			336.6	338.5	100				337.0	338.0	8	<5	13	17	11	4.4
									338.0	339.0	8	<5	10	20	11	7.7
338.5	343.5	**GRIT-CONGLOMERATE-DEBRIS FLOW:** dark gray unit with clasts of widely varying origin set in quartz-sericite matrix; strongly altered/sheared; significant quartz and quartz-carbonate veining; 1-2% pyrite pervasive disseminated grains;	338.5	343.5	100				339.0	340.0	9	9	<10	17	24	8.0
									342.0	343.0	14	10	11	20	22	4.7
343.5	375.1	**SANDSTONE (?felspathic), strong silica-sericite-carbonate alteration:** possible felspathic sandstone, strongly affected by silica-sericite-carbonate alteration accompanied by minor pyrite; **343.5-348.0 m:** dark gray, fine grained soft sericitic rock, possibly altered felspathic sandstone; strong bedding plane schistosity 45-50 CA°; numerous thin quartz and quartz-carbonate veins; minor disseminated pyrite;	343.5	375.1	100				345.0	346.0	22	8	<10	20	27	4.6
									348.0	349.0	17	8	<10	20	28	2.1
									350.0	351.0	2	11	<10	20	31	0.7
									352.0	353.0	1	<5	<10	15	38	0.5
									354.0	355.0	5	8	<10	25	23	1.0

COMPANY: Pacific-Nevada
PROJECT: North Butler
HOLE NUMBER: NB 006

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au ppb	Cu ppm	Pb	Zn	As	% S
343.5 continued.....	375.1	**348.0-353.5 m:** similar to unit above but large sections of dark gray rock with very strong carbonate overprint and with large white carbonate clasts set in dark gray sandy matrix; interbedded with light brown whispy units of sericitised siltstone ?: minor disseminated pyrite; core very competent; **353.5-375.1 m:** dark gray calcareous beds above, interbedded with cream and light brown sericitised and silicified felspathic (?) sandstone; above 364.0 m: variable development of carbonate alteration results in texture of dark gray flecks set in whispy sericitic altered sediments; below 364 m: proportion of dark brown calcareous intervals decreases down hole until basically absent towards bottom of hole; ocassional quartz and quartz-carbonate veins becoming more abundant below 366 m; <1% pyrite as pervasive disseminated grains and aggregates; **END OF HOLE**							357.0	358.0	6	<5	<10	20	31	<0.1
									360.0	361.0	4	9	<10	55	23	0.1
									363.0	364.0	1	<5	64	25	36	0.3
									364.0	365.0	3	11	<10	16	24	1.7
									367.0	368.0	2	8	<10	20	16	0.8
									370.0	371.0	2	<5	15	30	17	0.7
									372.0	373.0	5	<5	<10	39	13	0.5
									374.0	375.0	1	6	<10	23	11	0.6

APPENDIX 6

Drill Log Sample Register

(NEMS)

SSF 128517.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project | Sampler | Sample Type NB 001 | Laboratory | Sampling Period

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		Au	Cu	Pb	Zn	As	S.	
17951	4.0m	7.0m	Dolerite / andesite / diorite.	4	163	44	485	<5	<0.1	
17952	10.0m	11.0m		<1	93	29	262	"	"	
17953	14.0m	15.0m		2	89	52	207	"	"	
17954	20.0m	21.0m		2	71	22	105	"	"	
17955	24.0m	25.0m		<1	45	24	206	"	"	
17956	30.0m	31.0m	? Gabbro.	10	181	51	640	"	"	
17957	34.0m	35.0m		2	116	21	365	"	"	
17958	38.0m	39.0m		2	97	18	219	"	"	
17959	41.0m	42.0m		3	<5	11	44	"	"	
17960	42.0m	43.0m	Diorite - andesite ?	<1	11	14	65	"	"	
17961	43.0m	44.0m		<1	130	16	61	"	"	
17962	44.0m	45.0m		<1	46	16	52	"	0.4	
17963	45.0m	46.0m		<1	42	16	61	"	0.7	
17964	46.0m	47.0m		<1	36	18	95	"	0.2	
17965	47.0m	48.5m		<1	39	18	68	"	0.2	
17966	48.5m	50.0m	Sltst - mudstone.	13	41	<10	21	22	1.5	
17967	50.0m	52.0m		7	16	10	48	23	1.9	
17968	52.0m	54.2m		6	14	<10	27	<5	0.9	
17969	54.2m	56.0m	Diorite - andesite ?	<1	57	11	26	<5	0.1	

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SSF 128519

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project	Sampler	Sample Type NB001	Laboratory	Sampling Period

Sample Number	Co-ordinates N	Co-ordinates E	Description	Assays ppb Au	Cu	Pb	Zn	As	%S.	Comments
30170	57.0	58.0.	Dronte – andesite ?	1	169	<10	35	<5	0.1	
30171	59.0	60.0.		4	12	"	22	"	0.2	
30172	61.0	62.0.		3	11	"	25	"	0.3	
30173	64.0	65.0	———	6	130	"	22	"	0.5	
30174	65.0	66.0		5	13	"	20	"	0.3	
30175	67.0	68.0	Volcaniclastic rocks.	19	<5	"	35	"	0.1	
30176	69.0	70.0	BCA 60.	7	5	"	42	"	0.3	
alt. → 30177	72.0	73.0	← Minor graphitic shale.	2	39	"	58	"	0.2	
30178	77.3	79.0		11	9	"	23	"	1.37	
30179	79.0	80.0		18	15	"	21	"	2.50	
30180	80.0	81.0		3	<5	"	35	"	0.3	
30181	81.0	82.0	Major alt. zone.	4	7	"	25	"	1.36	
30182	82.0	83.0		5	6	"	28	"	1.38	
30183	83.0	84.0		13	7	"	18	"	1.31	
30184	84.0	85.0		28	15	"	29	11	1.88	
30185	85.0	86.0		69	43	"	41	20	5.5	
30186	92.0	93.0	Mineral	5	68	"	141	<5	0.1	
30187	94.0	95.0	Intrusives & volcs; fragmental	3	115	22	108	"	0.1	
30188	96.0	97.0	& calcareous.	2	75	28	215	"	<0.1	
30189	98.0	99.0		6	110	26	149	"	"	
30190	100.0	101.0		4	13	28	300	"	"	
30191	103.0	104.0		3	79	24	301	"	"	
30192	106.0	107.0		1	12	<10	226	"	"	
30193	108.0	109.0		2	350	<10	185	<5	0.5	
30194	109.0	110.0.		<1.	269	20	268	"	0.2.	

SSF 128519

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB001.	Laboratory		Sampling Period	

Sample Number	Co-ordinates N	Co-ordinates E	Description	Assays ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S.	Comments
30195.	110.0	111.0		2	51	<10	185	<5	<0.1	
30196	111.0	112.0		1	103	22	122	"	<0.1	
30197	113.0	114.0		3	103	28	144	"	0.3	
30198	115.0	116.0		4	413	20	120	"	0.3	
30199	116.0	117.0.	Diorites/gabbros/andesite?	3	112	<10	86	"	0.1	
30200	117.0	118.0		5	149	<10	97	"	0.2	
30201	118.0	119.0		2	59	22	90	"	0.2	
30202	119.0	120.0		<1	162	<10	89	"	0.2	
30203	120.0	121.0		3	122	"	95	"	0.1	
30204	121.0	122.0		4	129	"	135	"	<0.1	
30205	122.0	123.0		<1	61	"	119	"	0.1	
30206	123.0	124.0		5	103	"	94	"	0.2	
30207	128.1	129.0	Breccia.	1	120	"	91	"	0.1	
30208	129.0	130.0		<1	145	"	75	"	0.1	
30209	131.0	132.0	Volcaniclastic seds.	4	83	"	64	"	0.5	
30210	134.0	135.0.		6	174	"	67	"	0.6	
30211	137.0	138.0	Altered volcanics	2	131	"	76	"	0.4	
30212	139.0	140.0	and volcaniclastic/	<1	100	"	50	"	0.5	
30213.	141.0	142.0	cataclastic seds & vols.	3	32	"	60	"	<0.1	
30214	143.0	144.0		1	78	"	82	"	<0.1	
30215	145.0	146.0		13	32	"	45	"	0.1	
30216	146.0	147.0	Sltst, shale, volcanic	6	<5	"	18	"	1.0	
30217	147.0	148.0	component, pyritic in places.	25	11	"	18	"	2.8	
30218	148.0	149.0.		4	<5	"	22	"	1.0	
30219	149.0	150.0.		18	31	"	32	17	3.3	

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BSF 128519

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 001	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
				ppb	ppm	ppm	ppm	ppm.	%	
	N	E		Au	Cu	Pb	Zn	As	S	
30220.	150.0	151.0.		16	21	<10	26	<5	2.5	
30221	151.0	152.0.		14	16	"	18	<5	2.0	
30222	152.0	153.0		7	13	"	19	17	2.2	
30223	153.0	154.0.		6	7	"	13	22	0.9	
30224	154.0	155.0.		16	59	"	27	<5	4.4	
30225	155.0	156.3.		33	103	"	24	<5	7.4	
30226.	156.4	158.0	siltstone/sh/sst: carbonate	7	14	"	18	12	1.2	
30227	158.0	159.0	veined; very pyritic.	19	16	"	14	<5	3.4	
30228	159.0	160.0		59	51	"	28	20	6.6	
30229	160.0	161.0		26	19	"	26	<5	2.7	
30230	161.0	162.0		48	41	"	31	14	5.0	
30231	162.0	163.0.		61	55	"	26	<5	6.2	
30232	163.0	164.0		21	16	"	16	<5	2.1	
30234	164.0	165.0		185	155	36	20	29	15.5	
30235	165.0	166.0		109	81	22	17	<5	15.1	
30236.	166.0	167.0.		53	46	<10	56	<5	7.9	
30237	167.0	168.0		176	180	42	21	30	18.7	
30238	168.0	169.0		83	73	<10	17	16	8.7	
30239	169.0	170.0		42	45	<10	21	<5	6.6	
30240	170.0	171.0		93	174	40	20	27	13.1	
30241	171.0	172.0		60	47	<10	23	10	5.5	
30242	172.0	173.0		86	69	<10	19	<5	8.9	
30243	173.0	174.0		22	29.	<10	15	"	5.2	
30244	174.0	175.0		13	29	"	16	"	6.8	
30245	175.0	176.0		4.	18	"	18	"	6.3	

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SSF 128519

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB001	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S.	
30246	176.0	177.0		5	20	<10	25	<5	1.5	
30247	177.0	178.0		<1	<5	"	19	"	0.9	
30248	178.0	179.0		9	23	"	<5	"	4.4	
30249	179.0	180.0		14	81	"	<5	"	11.4	
30250	180.0	181.7		14	31	"	6	"	3.2	
30251	181.7	182.6	Carbonaceous sh., sct beds pyrite.	34	44	"	35	13	2.9	
30252	183.6	185.2		17	17	"	9	<5	1.9	

SSF 128520.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 001	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
				ppb	ppm	ppm	ppm	ppm	%	
	N	E		Au	Cu	Pb	Zn	As	%S	
30253	186.0	187.5	Carbonaceous shale (sect.	6	13	<50	45	<5	0.7	
30254	187.5	189.0	locally) pyritic	46	34	"	39	"	4.0	
30255	191.0	192.0		43	23	"	37	"	3.2	
30256	193.0	194.0		17	17	"	34	"	2.9	
30257	195.0	196.0		14	36	"	36	"	0.6	
30258	197.0	198.0	Quartzite.	20	8	"	35	"	0.8	
30259	200.0	201.0		24	8	"	33	"	1.2	
30260	201.0	202.0		29	18	"	37	"	2.5	
30261	206.0	207.0		8	<5	"	34	"	0.7	
30262	207.0	208.0		9	5	"	32	"	1.0	
30263	209.3	210.7	Blk. shale - altst.	10	13	"	34	"	2.55	
30264	212.9	215.3		18	7	"	38	"	4.15	
30265	215.3	218.8		33	18	"	34	"	7.3	
30266	218.8	222.6	Major fault zone.	24	22	"	37	"	6.3	
30267	222.6	223.7		45	19	"	34	"	7.0	
30268	223.7	225.6		19	11	"	31	"	7.9	
30269	225.6	229.0		16	<5	"	33	"	3.7	
30270	229.0	234.0		4	51	"	38	"	>10	
30271	234.1	236.9		3	<5	"	57	"	>10	
30272	236.9	238.3		1	6	"	49	"	6.9	
30273	238.3	240.0	Fault zone / remnant	2	5	"	38	"	2.4	
30274	241.0	242.0	quartzite; pyritic.	1	10	"	43	"	2.2	
30275	243.0	244.0		5	8	"	42	"	1.4	
30276	245.0	246.2		<1	<5	"	44	"	3.8	
30277	246.2	247.4.		<1	5	"	28	"	0.9	

SSF 128520

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB001.	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30278	247.4	248.8		5	<5	<50	40	<10	1.8	
30279	250.0	251.0.		2	7	"	42	"	2.5	
30280	253.0	254.5.		4	<5	"	48	"	3.2	
30281	256.0	257.8	altst, sst-grit,	5	7	"	46	"	3.4	
30282	259.3	260.5	volcaniclastic sed;	4	8	"	43	"	3.5	
30283	260.5	262.0.	breccias.	2	5	"	43	"	2.4	
30284	265.0	266.0		7	17	"	36	-	1.9	
30285	266.0	267.0.		2	5	"	46	-	1.5	
30286	268.0	269.3		3	<5	"	40	-	1.0	
30287	272.0	273.0		4	6	"	40	-	2.6	
30288	274.5	276.0		2	<5	"	40	-	1.1	
30289	276.0	277.0		<1	<5	"	41	-	1.4	
30290	278.0	280.0		4	5	"	42	-	2.5	
30291.	283.1	284.0	volcaniclastic sed;	<1	11	"	58	-	3.9	
30292.	285.0	286.0	tuffaceous - pyroclastics	<1	<5	"	58.	-	4.3	
30293	287.0	288.0	/ breccias.	6	8	"	53	-	2.5	
30294	289.0	290.0		4	11	"	40	-	2.8	
30295	291.0	292.0		4	<5	"	61	-	1.5	
30296.	293.0	294.0		3	11	"	70	-	2.8	
30297	295.0	296.0		<1	13	"	51	-	3.9	
30298	297.0	298.0		6	86	"	42	-	3.4	
30299	300.0	30[illegible].0		2	5	"	59	-	1.5	
30300	303.0	304.0		4	6	"	113	-	1.7	
30301	305.0	306.0		1	<5	"	45	-	0.3	
30302	307.0	308.0		1	<5	"	45.	-	0.3	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB001	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30303	309.0	310.0		3	6	<50	58	<5	1.3	
30304	311.8	313.0		7	35	"	56	"	3.2	
30305	314.0	315.0.		2	23	"	66	"	1.2	
30306	316.6	318.0		5	<5	"	64	"	1.0	
30307	319.0	320.0		1	6	"	55	"	1.1	
30308	321.0	322.0		4	10	"	40	"	1.5	
30309	323.0	324.0.		<1	15	"	56	"	2.5	
30310	325.0	326.0.		4	10	"	64	"	2.6	
30311	327.0	328.0.		3	9	"	63	"	2.4	
30312	329.0	330.0		1	8	"	56	"	1.7	
30313	331.0	332.0		7	9	"	55	"	2.0	
30314	333.0	334.0		2	33	"	57	"	2.5	
30315	334.0	335.0		3	21	"	56	"	2.5.	

SSF 128517

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project | Sampler | Sample Type NB 002 | Laboratory | Sampling Period

Sample Number	Co-ordinates N	Co-ordinates E	Description	Assays ppb Au	Assays ppm Cu	Assays ppm Pb	Assays ppm Zn	Assays ppm As	Assays % S	Comments
17970	5.0m	6.0m	Weathered gabbro.	1	92	30	153	<5	<0.1	
17971	8.0m	9.0m		<1	83	31	163	-	-	
17972	13.0m	14.0m	———	<1	30	27	220	"	-	
17973	19.0m	20.0m	breccia (cataclasite).	<1	151	16	129	"	"	
17974	23.0m	24.0m		<1	132	19	60	-	-	
17975	28.0m	29.0m	———	1	84	16	64	-	-	
17976	32.0m	33.0m		<1	<5	13	61	"	"	
17977	35.0m	36.0m	basaltic cobble breccia.	<1	82	18	64	"	"	
17978	38.0m	39.0m		<1	94	14	68	"	-	
17979	41.0m	42.0m		2	225	14	63	"	-	
17980	44.0m	45.0m	———	<1	46	20	90	-	-	
17981	47.0m	48.0m		4	111	17	90	-	0.2	
17982	50.0m	51.0m	volcaniclastic sandstones	2	90	19	84	"	0.2	
17983	54.0m	55.0m		4	106	14	102	"	<0.1	
17984	57.0m	58.0m		3	67	14	77	-	"	
17985	60.0m	61.0m		6	105	15	84	-	-	
17986	63.0m	64.0m		<1	74	11	92	"	-	
17987	66.0m	67.0m	———	1	112	15	102	-	-	
17988	69.0m	70.0m	gabbros	3	129	22	94	-	0.4	
17989	73.0m	74.0m		<1	118	20	123	-	0.1	
17990	75.0m	77.0m	———	<1	82	19	137	10	0.3	
17991	79.0m	80.0m	Volcaniclastic sedo.	3	56	12	93	7	0.1	
17992	81.0m	82.2m	———	<1	21	18	56	6	1.1	
17993	82.2m	84.0m	gabbroic/diorite.	<1	113	21	110	<5	0.4	
17994	85.0m	86.0m		<1	101	23	207	"	0.4	

617137

SSF 128517

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project	Sampler	Sample Type	NB002	Laboratory	Sampling Period

Sample Number	Co-ordinates N	Co-ordinates E	Description	Assays ppb Au.	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	Comments
17995	87.0m	88.0m	Gabbro?/diorite.	<1	211	23	155	<5	0.1	
17996	89.0m	90.0m		<1	265	28	98	6	0.2	
17997	91.0m	92.0m		<1	154	24	300	<5	<0.1	
17998	94.0m	95.0m		<1	107	24	235	"	"	
17999	97.0m	98.0m		3	7	15	31	"	"	
18000	100.0m	101.0m		<1	103	17	125	"	"	
30101	102.0m	103.5m	↓	1	47	16	58	"	0.1	
30102	107.0m	108.0m	Fault.	<1	106	23	155	"	<0.1	
30103	110.0m	111.4m	—	<1	105	18	83	"	"	
30104	114.0m	116.0m	Sltst + carbonaceous sh.	3	<5	<10	16	"	1.27	
30105	116.0m	117.0m		2	<5	<10	13	"	1.77	
30106	118.0m	120.0m	.	4	<5	<10	15	"	0.9	
30107	122.0m	124.1m		1	9	<10	19	"	1.1	
30108	124.1m	125.0m	Carb., py. sh.	163	75	19	26	74	13.2	
30109	127.5m	129.0m	Lminy sltst.	3	<5	<10	7	<5	0.5	
30110	132.0m	133.0m		2	6	<10	11	6	0.7	
30111	133.5m	135.0m	Blk py. carb. shale.	23	29	<10	14	6	1.8	
30112	137.0m	138.0m	.	16	25	<10	13	<5	1.9	
30113	140.0m	141.0m		37	36	14	27	32	4.9	
30114	141.0m	142.0m		38	47	16	30	41	6.1	
30115	142.0m	144.0m	— ↓ —	31	68	18	40	230	12.3	
30116	149.0m	150.0m	↓	4	<5	<10	9	<5	0.6	
30117	152.0m	153.0m	Calc. sltst.	45	16	<10	14	7	1.7	
30118	155.0m	156.0m	↓	19	21	<10	17	17	2.9	
30119	158.0m	159.0m	Blk. Carb. sh.	23.	27	10	15	28	4.3	

021158

SSF: 128517

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project | Sampler | Sample Type NB 002 | Laboratory | Sampling Period

Sample Number	Co-ordinates		Description	Assays ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	Comments
	~~N~~	~~E~~								
30120	161.0m	162.0m		29	54	23	23	43	7.85	
30121	164.0m	165.0m		32	319	27	33	45	7.7	
30122	167.0m	168.0m		26	34	17	19	33	5.6	
30123	170.0m	171.0m		69	116	21	27	10	8.1	
30124	173.0m	174.0m		51	73	32	26	18	6.9	
30125	178.0m	179.0m		65.	62	28	53	7	6.8	
30126	181.0m	182.0m	↑ Blk. carb. shale.	65	62	25	37	<5	6.3	
30127	184.0m	185.0m		43	71	20	33	<5	5.5	
30128	188.0m	189.0m	↓	10	7	<10	<5	55	0.6	
30129	191.0m	192.0m		13	<5	"	<5	25	0.4	
30130	194.0m	195.0m	Calc. sltst.	8	<5	"	"	21	0.4	
30131	197.0m	198.0m		6	6	"	"	15	0.7	
30132	200.0m	201.0m		5	7	"	"	19	0.4	
30133	203.0m	204.0m		4	<5	"	"	18	0.4	
30134	205.0m	206.0m		4	<5	"	"	24	0.4	
30135	208.0m	209.0m		4	<5	"	"	9	0.6	
30136	209.0m	210.0m		9	24	18	10	9	3.3	
30137	210.0m	211.0m		36	89	56	7	27	10.3	
30138	211.0m	212.0m	Flt.	37	108	54	7	18	15.6	
30139	212.0m	213.0m	pyritic fissile sltst.	72	176	82	13	22	20.2	
30140	213.0m	214.0m		10	34	17	33	<5	4.3	
30141	214.0m	215.0m		19	80	31	11	7	11.2	
30142	215.0m	216.0m		31.	168	62	15	13	18.2	

67159

SSF 128519.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project | Sampler | Sample Type NB002 | Laboratory | Sampling Period

Sample Number	Co-ordinates		Description	Assays						Comments
	X	X		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30143	216.0	217.0	Pyritic siltst-sst.	12	103	26	17	<5	6.35	
30144	217.0	218.0		18	71	34	27	"	7.5	
30145	218.0	219.0		65	114	52	26	"	>10.0	
30146	219.0	220.0		91	266	78	31	31	>10.0	
30147	220.0	221.0		118	234	52	23	26	>10.0	
30148	221.0	222.0	———	80	45	26	17	<5	6.9	
30149	222.0	223.0	Calc. pyritic siltst, minor	21	37	<10	20	"	5.3	
30150	224.0	225.0	carb. shale.	32	78	38	19	12	8.7	
30151	225.0	226.0		7	22	<10	20	16	2.1	
30152	226.0	227.0		22	60	"	23	<5	7.7	
30153	229.0	230.0		7	19	"	17	"	4.3	
30154	231.0	232.0		4	8	"	49	"	2.1	
30155	234.0	235.0		4	39	"	<5	"	3.5	
30156	235.0	236.0		8	94	"	10	"	6.4	
30157	237.0	238.0	———	10	23	"	11	"	2.9	
30158	240.0	241.0	Black carbonaceous-pyritic	14	24	"	6	17	2.3	
30159	241.0	242.0	shales.	21	69	"	30	19	2.4	
30160	244.0	245.0		30	37	"	23	<5	2.0	
30161	246.0	247.0		11	22	"	30	11	1.3	
30162	248.0	249.0		27	35	"	21	<5	2.0	
30163	250.0	251.0		12	23	"	15	"	1.7	
30164	251.0	252.0		16	8	"	10	"	0.7	
30165	252.0	253.0		21	20	"	24	"	1.9	
30166	255.0	256.0		11	21	"	28	"	3.6	
30167	258.0	259.0		68	19	"	22	"	3.9	

671160

SSF 128519

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project	Sampler	Sample Type NB 002	Laboratory	Sampling Period

Sample Number	Co-ordinates N	Co-ordinates E	Description	Assays ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	Comments
30168	259.5	261.0		46	23	<10	22	<5	5.1	
30169	261.0	262.5		20	40	"	23	"	3.8	

SSF 128523

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 003	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m.	E		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30551	5.0	6.0	Weathered volcanics.	9	98	<20	188	<10	<0.1	
30552	8.0	9.0.		8	83	"	224	"	<0.1	
30553	11.0	12.0		4	76	"	233	"	<0.1	
30554	14.0	15.0		3	409	"	191	"	<0.1	
30555	17.0	18.0.		48	526	"	184	"	<0.1	
30556	20.0	21.0		27	352	"	616	28	<0.1	
30557	23.0	24.0.		3	76	"	80	10	<0.1	
30558	26.0	27.0.		2	117	"	77	13	<0.1	
30559	29.0	30.0.		5	39	"	81	10	<0.1	
30560	32.0	33.0.	Volcanic breccias/lavas.	6	306	"	92	<10	<0.1	
30561	35.0	36.0.		5	102	"	50	13	0.1	
30562	38.0	39.0.		6	132	"	138	11	0.1	
30563	41.0	42.0		9	96	"	165	15	0.1	
30564	44.0	45.0.		7	121	"	92	15	<0.1	
30565	47.0	48.0		6	35	"	66	<10	<0.1	
30566	50.0	51.0		8	111	"	49	29	0.2	
30567	51.0	52.0.		12	1455	"	63	77	0.2	
30568	54.0	55.0.		10	93	"	49	41	0.3	
30569	57.0	58.0.		6	89	"	95	<10	<0.1	
30570	60.0	61.0	Gabbro/diorite.	9	169	"	64	<10	<0.1	
30571	63.0	64.0		7	71	"	384	16	0.1	
30572	66.0	67.0		6	123	"	180	17	0.1	
30573	69.0	70.0.	Sediments (volcaniclastic)	9	78	"	82	16	<0.1	
30574	72.0	73.0		8	118	"	72	38	0.2	
30575	75.0	76.0		17	33	"	47	19	0.2.	

SSF 128523.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 003	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
				ppm	ppm	ppm	ppm	ppm	%	
	N	E		Au	Cu	Pb	Zn	As	S	
30576.	76.5	78.0.	Gabbro	7	88	<20	60	10	0.1	
30577	79.0	80.0		5	46	"	91	<10	<0.1	
30578	82.0	83.0		6	60	"	138	"	"	
30579	85.0	86.0		5	59	"	91	"	"	
30580.	88.0	89.0		6	84	"	96	"	"	
30581	91.0	92.1		8	89	"	31	30	0.3	
30582	98.0	99.0	Calc-sediments and	12	10	"	6	16	2.5	
30583	100.0	101.0	black graphitic shales	16	<5	"	11	<10	1.5	
30584	103.0	104.0		12	10	"	8	17	1.3	
30585	107.0	108.0		11	9	"	11	<10	0.7	
30586.	112.5	113.5		106	64	"	17	84	9.7	
30587	115.0	116.0		23	15	"	9	13	2.8	
30588	118.0	119.0.		9	<5	"	12	<10	0.7	
30589	121.0	122.0		6	<5	"	10	"	0.3	
30590.	123.0	124.0		6	9	"	16	"	0.5	
30591	124.0	125.0		4	6	66	154	16	1.0	
30592	128.0	129.0.		49	37	22	8	29	4.9	
30593	129.0	130.0.		61	54	24	7	39	7.5	
30594	132.0	133.0		26	16	20	9	22	4.1	
30595	140.0	141.0.		7	<5	<20	14	<10	0.9	
30596	143.0	144.0.		2	<5	22	14	"	0.8	
30597	146.0	147.0.		8	<5	22	10	"	1.0	
30598	149.0	151.0	*	11	<5	22	38	"	1.2	
30599	154.0	155.0		8	<5	24	8	45	1.8	
30 600	156.0	157.0		29	13	26	10	75	4.7	

67163

SSF 128523

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 003	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	~~N~~	~~E~~		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30601	158.0	159.0.		10	<5	28	19	<10	0.7	
30602	161.0	162.0		13	48	36	34	11	0.7	
30603	163.0	164.0		12	23	34	32	13	0.9	
30604	165.0	166.0.	Shales (sandstone,	49	23	38	<5	18	2.8	
30605	166.0	167.0	breccias) massive	242	146	62	8	53	16.8	
30606	167.0	168.0.	pyrite banding.	180	159	78	10	51	16.4	
30607	168.0	169.0		126	109	72	10	35	16.5	
30608	169.0	170.0.		51	53	54	12	20	7.2	
30609	170.0	171.0.		116	92	78	26	38	12.3	
30610	171.0	172.0.		124	81	64	12	38	13.8	
30611	172.0	173.0		68	35	46	8	22	7.2.	
30612	173.0	174.0		62	56	66	9	29	7.5	
30613	174.0	175.0		41	55	130	22	31	7.7	
30614	175.0	176.0		8	37	46	9	21	6.1	
30615	176.0	177.0.		41	67	120	20	32	11.8.	
30616	177.0	178.0.		10	10	34	6	<10	3.3	
30617	178.0	179.0.		9	21	34	7	14	5.7	
30618	179.0	180.0.		4	23	38	7	21	9.1	
30619	180.0	181.0		31	31	40	18	16	0.4	
30620	181.0	182.0		23	30	28	14	17	1.5	
30621	182.0	183.0		7	52	30	16	17	3.8	
30622	183.0	184.0		8	44	54	11	24	4.9	
30623	184.0	185.0		11	40	42	7	27	6.4	
30624	186.2	188.0	Calc. grits and breccias.	6	7	38	<5	14	0.7	
30625	188.0	189.0		16	13	30	62	15	0.9	

SSF 128523.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 003	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30626	190.0	191.0.		23	42	36	9	34	2.85	
30627	192.0	193.0.		5	16	34	<5	14	1.1	
30628	194.0	195.0	Black pyritic shales	17	12	36	5	22	1.2	
30629	196.0	197.0.	and minor sandstone.	24	23	44	8	35	3.0	
30630	198.0	199.0.		3	<5	24	<5	13	0.4	
30631	200.0	201.0		31	29	50	9	35	4.2	
30632	203.0	204.0		58	35	44	15	38	4.9	
30633	206.0	207.0		27	19	40	7	32	3.8	
30634	214.0	215.0		39	22	40	9	29	3.1	
30635	217.0	218.0		26	26	42	9	29	2.7	
30636	220.3	221.0	Silicified sediments.	8	19	32	12	19	2.5	
30637	223.0	224.0		11	10	32	10	21	2.6	
30638	226.0	227.0		3	<5	26	7	14	0.5	
30639	229.0	230.0		3	<5	28	6	18	1.6	
30640	232.0	233.0		57	12	44	6	40.	3.6	
30641	235.0	236.0.		1	10	<20	5	<10	1.4	
30642	241.0	242.0		<1	10	"	5	"	1.5	
30643	243.0	244.0		<1	14	"	10	"	0.9	
30644	245.0	246.0		<1	9	"	12	"	0.7	
30645	248.0	249.0		<1	12	"	10	"	0.8	
30646	250.0	251.0		<1	24	"	7	"	0.8	
30647	252.0	253.0		3	12	"	5	"	1.3	
30648	254.0	255.0		5	12	"	11	"	1.9	
30649	257.0	258.0	Phyllitic sediments and	2	13	"	9	"	2.4	
30650	260.0	261.0	sandstone.	3.	16	"	10	"	2.7	

021165

SSF 128523.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB803	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30651	263.0	264.0		3	13	<20	7	<10	2.8	
30652	266.0	267.0		24	14	"	7	12	3.7	
30653	271.0	272.0		8	9	"	8	<10	3.2	
30654	274.0	275.0		11	7	"	6	"	3.2	
30655	281.0	282.0	Altered sediments	2	9	"	5	"	1.7	
30656	283.0	284.0	(strong silica - carb. -	1	10	"	8	"	1.4	
30657	285.0	286.0	pyrite alteration)	4	8	"	19	"	0.9	
30658	287.0	288.0		5	24	"	<5	"	1.6	
30659	289.0	290.0		3	29	"	5	"	1.6	
30660	291.0	292.0		2	11	"	6	"	0.6	
30661	293.0	294.0		3	14	"	11	<10	0.8	
30662	295.0	296.0		2	11	"	17	19	0.4	
30663	297.0	298.0		2	17	"	31	27	0.3	
30664	299.0	300.0		2	12	"	14	19	2.9	
30665	300.0	301.0		3	12	"	32	12	0.7	
30666	301.0	302.0		<1	9	"	7	15	1.4	
30667	303.0	304.0		<1	16	"	9	<10	<0.1	
30668	305.0	306.0		<1	9	"	11	60	4.2	
30669	307.0	308.0		<1	9	"	5	<10	0.7	
30670	309.0	310.0		<1	9	"	<5	28	0.8	

SSF 128520.

SSF 128521

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB004	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30316	13.0	14.0.		1	89	<50	251	<5	<0.1	
30317	17.0	18.0.	Diorite, gabbro;	<1	56	"	232	"	<0.1	
30318	20.0	21.0.		3	81	"	536	"	<0.1	
30319	23.0	24.0.		1	139	"	410	"	<0.1	
30320	26.0	27.0.		1	46	"	246	"	0.1	
30321	29.0	30.0.		<1	76	"	139	"	0.1	
30322.	32.0	33.0		5	84	"	223	"	<0.1	
30323	35.0	36.0		6	95	"	187	"	<0.1	
30324	37.0	38.0		<1	116	"	304	"	0.1	
30325	41.0	42.0		<1	95	"	137	"	<0.1	
30326.	44.0	45.0.		<1	76	"	238	"	<0.1	
30327	47.0	48.0.		<1	28	"	476	"	<0.1	
30328	51.8	52.8		2	13	"	83	"	0.5	
30329	52.8	54.2		<1	13	"	100	"	3.3	
30330	55.0	56.0		5	80	"	349	"	0.1	
30331	58.0	59.0		1	73	"	92	"	0.1	
30332.	61.8	63.0	Volcanics, volcaniclastic	4	5	"	71	"	0.5	
30333.	63.0	64.0	sediments.	6	<5	"	48	"	0.5	
30334.	64.0	65.0		6	<5	"	52	"	1.8	
30335	66.0	67.0		<1	<5	—	65	"	0.2	
30336	68.0	69.0		3	77	14	69	32	0.2	
30337	70.0	71.0.	Volc. breccia.	7	115	<10	55	13	<0.1	
30338	72.0	73.0		2	100	"	50	33	0.1	
30339	74.0	75.0.		3	78	"	59	24	<0.1	
30340	76.0	77.0		5	56	"	62	19	<0.1	

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SSF 12852.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB004	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
				ppb	ppm	ppm	ppm	ppm	%	
	N m	E m		Au	Cu	Pb	Zn	As	S	
30341	78.0	79.0.		3	85	<10	50	16	0.1	
30342	80.0	81.0		15	156	"	37	53	0.6	
30343	82.0	83.0		2	51	"	80	31	0.1	
30344	84.0	86.3		9	127	16	389	30	<0.1	
30345	86.3	86.8	Fault.	3	105	<10	117	9	0.2	
30346	86.8	88.0		1	81	"	62	<5	0.4	
30347	90.0	91.0	siltstones, volcaniclastic	7	77	"	75	<5	0.3	
30348	93.0	94.0.	sediments	4	102	"	562	8	0.7	
30349	94.0	95.0.		5	54	"	65	<5	0.5	
30350	96.0	97.0		4	41	"	69	<5	0.7	
30351	98.0	99.0		2	69	"	69	<5	0.5	
30352	100.0	101.0.		4	119	"	135	<5	0.5	
30353	102.0	103.0		4	53	"	93	<5	0.3	
30354	104.0	105.0		5	81	"	80	<5	0.7	
30355	107.0	108.0	Carbonate veined	5	127	"	38	30	0.4	
30356.	108.0	109.0	siltstone.	5	108	"	37	26	0.3	
30357	109.0	110.0		3	83	"	51	14	0.5	
30358	110.0	111.0		4	66	"	56	24	0.5	
30359	111.0	112.0		<1	84	"	58	12	0.3	
30360	112.0	113.0		3	60	"	49	22	0.3	
30361	113.0	114.0		2	72	"	62	18	0.4	
30362	114.0	115.0		<1	15	"	71	6	0.5	
30363	116.0	117.0		<1	7	"	57	22	0.5	
30364	119.0	120.0		<1	92	"	69	<5	0.3	
30365	122.0	123.0		<1	87	"	65	6	0.3.	

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SSF 128521

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB004	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
				ppb	ppm	ppm	ppm	ppm	%	
	N m	E m		Au	Cu	Pb	Zn	As	S	
30366	125.0	126.0	carbonate veined	3	6	<10	47	10	0.5	
30367	128.0	129.0	siltstone	<1	36	"	60	<5	0.5	
30368	131.0	132.0		<1	5	"	25	"	0.4	
30369	134.0	135.0		<1	9	"	46	"	0.3	
30370	137.0	138.0		<1	28	"	55	"	0.2	
30371	140.0	141.0	Volcaniclastic sediments	<1	46	"	60	"	0.4	
30372	143.0	144.0		6	26	"	65	"	0.4	
30373	146.0	147.0		2	80	"	91	"	0.4	
30374	149.0	150.0		7	95	"	72	11	0.8	
30375	152.0	153.0		2	59	"	60	<5	0.7	
30376	155.0	156.0		3	93	"	53	7	0.7	
30377	158.0	159.0		13	54	"	55	9	1.1	
30378	161.0	162.0		7	111		58	12	0.6	
30379	164.0	165.0		7	77	"	50	<5	0.4	
30380	167.0	168.0		6	28	"	55	<5	0.4	
30381	170.0	171.0	Volcanic - intrusive	<1	59	14	112	20	<0.1	
30382	173.0	174.0	sequence (diorite,	<1	61	13	83	20	<0.1	
30383	176.0	177.0	gabbro, basalt - andesite)	2	73	14	311	20	0.1	
30384	179.0	180.0		1	55	14	137	27	<0.1	
30385	182.0	183.0		<1	79	12	108	37	0.1	
30386	185.0	186.0		2	107	10	293	52	<0.1	
30387	188.0	189.0		<1	23	12	97	25	<0.1	
30388	191.0	192.0		3	15	<10	78	16	0.1	
30389	194.0	195.0		1	151	11	76	21	0.1	
30390	197.0	198.0		4	48	13	295	26	<0.1	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 004	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30391	200.0	201.0		<1	185	12	103	13	0.3	
30392	203.0	204.0		1	130	12	136	31	0.1	
30393	206.0	207.0.		2	98	11	242	7	0.1	
30394	209.0	210.0		6	42	11	199	9	0.1	
30395	212.0	213.0		224	309	12	132	14	0.5	
30396	215.0	216.0.		4	42	13	116	<5	0.1	
30397	218.0	219.0		9	40	<10	49	71	1.1	
30398	221.0	222.0		2	<5	"	44	13	0.6	
30399	223.0	224.5		2	9	"	37	10	0.2	
30400	224.5	226.0	cataclasite - fault /	3	7	"	24	15	0.4	
	226.0	227.0	breccia zone.	4	103	"	34	16	0.6	
	227.0	228.0		3.	15	"	27	9	0.7	
	228.0	229.3		17	20	"	24	74	2.2	
	229.3	231.0		13	16	"	30	20	1.8	
	231.0	231.7		13	18	"	19	<5	2.0	
	231.7	233.0	pyritic, calcareous	32	30	"	18	26	3.3	
	233.0	234.0	sediments.	10	<5	"	23	78	3.9	
	234.0	235.0		5	<5	"	21	53	7.0	
	235.0	236.7		11	8	"	26	33	1.7	
	236.7	238.0	Siliceous, pyritic	17	12.	"	21	<5	3.0	
	238.0	239.0	breccia.	14	16	"	30	18	2.5	
	239.0	240.0		18	14	"	26	<5	6.4	
	240.0	241.0		15	12.	"	26	17	9.8	
	241.0	242.0		16	10	"	20	10	7.0	
	242.0	243.0		18	8	"	20	<5	5.5.	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB004	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
				ppb	ppm	ppm	ppm	ppm	%	
	N m.	E m.		Au	Cu	Pb	Zn	As	S	
	243.0	244.8		15	12	<10	16	5	8.2	
	245.0	246.0	quartzite, volcaniclastic	8	9	"	18	98	2.3	
	248.0	249.0		15	9	"	18	22	2.8	
	251.0	252.0		2	<5	"	19	39	1.7	
	253.5	254.0		<1	<5	"	23	114	9.1	
	256.0	257.0		1	<5	"	35	93	2.9	
	259.0	260.0		4	<5	"	19	75	2.4	
	262.0	263.0		1	5	"	24	117	1.0	
	265.0	266.0		5	<5	"	28	69	1.7	
	270.0	271.0		4	<5	"	22	130	1.7	
	271.0	272.0		6	<5	"	30	125	4.6	
	272.0	273.0		7	15	"	34	92	4.7	
	273.0	274.0		9	7	"	41	85	3.5	
	276.0	277.0		5	<5	"	36	54	3.6	
	279.0	280.0		7	8	"	34	104	5.4	
	280.0	281.0		5	5	"	29	118	5.9	
	283.0	284.0		5	7	"	24	85	1.5	
	286.0	287.0		14	6	"	21	21	4.1	
	289.0	290.0		10	<5	"	19	<5	1.8	
	292.0	293.0		7	<5	"	17	<5	2.2	
	295.0	296.0		14	<5	"	18	<5	3.6	
	298.0	299.0		69	7	"	11	<5	4.6	
	301.0	302.0		49	16	"	19	11	3.3	
	304.0	305.0		46	21	"	20	<5	3.5	
	307.0	308.0		20	23	"	18	72	1.9	

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SSF 128521

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 004	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
	310.0	311.0		8	9	<10	19	116	1.1	
	313.0	314.0		4	13	"	78	79	1.0	
	316.0	317.0		7	7	"	19	44	1.8	
	319.0	320.0		26	21	"	19	51	2.8	
	322.0	323.0		17	11	"	19	46	2.2	
	325.0	326.0		10	<5	"	19	31	1.3	
	328.0	329.0		6	<5	"	21	6	0.5	
	331.0	332.0		9	13	"	31	88	1.0	
	334.0	335.0		10	8	"	25	52	1.4	
	337.0	338.0		10	<5	<10	18	<5	0.7	

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SSF 128524

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB005	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30671	25.0	26.0	Weathered diorite / gabbro.	11	61	24	98	29	0.3	
30672	28.0	29.0	"	1	50	18	57	20	0.2	
30673	37.0	38.0	Fine grained sediment.	17	26	<10	37	21	<0.1	
30674	39.0	40.0	"	20	6	<10	21	32	0.8	
30675	41.0	42.0	Gabbro.	3	135	18	57	31	0.1	
30676	43.0	44.0	"	<1	80	22	92	33	0.1	
30677	45.0	46.0	Siltstone	10	5	12	33	44	0.5	
30678	47.0	48.0	"	4	98	12	38	24	0.2	
30679	49.0	50.0	Gabbro.	7	72	20	69	31	0.1	
30680	52.0	53.0		5	124	21	110	33	0.1	
30681	55.0	56.0		<1	166	24	120	27	0.2	
30682	58.0	59.0		2	92	58	462	33	0.3	
30683	61.0	62.0		3	88	14	159	34	<0.1	
30684	64.0	65.0		<1	63	16	95	33	0.1	
30685	67.0	68.0		<1	84	15	65	27	0.1	
30686	70.0	71.0		<1	162	15	121	22	0.1	
30687	73.0	74.0		1	92	18	96	30	<0.1	
30688	76.0	77.0		3	69	15	101	26	<0.1	
30689	79.0	80.0	"	3	123	16	56	59	0.3	
30690	83.0	84.0	Interbedded shale and siltstone.	9	11	<10	12	14	1.7	
30691	85.0	86.0	"	3	12	<10	13	16	1.7	
30692	88.0	89.0		1	14	11	14	21	1.6	
30693	91.0	92.0		2	11	10	11	20	2.8	
30694	94.0	95.0		5	15	<10	12	21	2.1	
30695	97.0	98.0		9	10	<10	13	16	1.9	

677173

SSF 128524.

SSF 128526.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 005	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m.	E m.		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30696	100.0	101.0	Interbedded shale and	18	15	<10	12	25	2.3	
30697	105.0	106.0	siltstone.	19	7	<10	13	<5	0.9	
30698	107.0	108.0		14	6	<10	12	<5	0.5	
30699	109.0	110.0		16	11	<10	13	6	0.9	
30700	111.0	112.0		10	11	12	11	23	2.3	
30501	114.0	115.0		11	14	11	14	23	1.8	
30502	117.0	118.0		6	13	<10	11	18	1.4	
30503	120.0	121.0		12	8	<10	14	12	2.3	
30504	123.0	124.0		29	15	12	14	19	2.0	
30505	125.0	126.0		9	16	<10	13	20	1.6	
30506	127.0	128.0		14	14	<10	22	22	1.8	
30507	130.0	132.0		14	15	12	15	12	1.8	
30508	133.0	134.0		13	10	<10	15	10	1.8	
30509	138.0	139.0		28	13	10	11	17	2.4	
30510	141.0	142.0		54	22	19	12	27	2.7	
30511	143.0	144.0		36	17	15	19	23	3.1	
30512	145.0	146.0		33	19	12	14	18	3.7	
30513	148.0	149.0		29	20	15	16	24	2.5	
30514	151.0	152.0		9	<5	<10	14	11	1.3	
30515	154.0	155.0		8	13	<10	14	5	1.5	
30516	157.0	158.0		8	20	13	14	15	1.7	
30517	159.0	160.0		8	6	<10	10	32	1.5	
30518	161.0	162.0		5	6	<10	47	6	1.8	
30519	164.0	165.0		5	8	12	15	17	1.7	
30520	167.0	168.0		5	<5	<10	12	19	1.2	

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SSF 128526

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 005	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30,521	170.0	171.0	Interbedded shale and	7	7	12	18	26	1.4	
30522	173.0	174.0	siltstone.	9	78	15	15	26	3.3	
30523	174.0	175.0		15	11	16	27	21	3.1	
30524	175.0	176.0		4	12	14	9	24	2.2	
30525	176.0	177.0		7	9	14	11	19	3.8	
30526	178.0	179.0	Debris flow sediments	3	<5	<10	57	21	2.0	
30527	180.0	181.0		5	7	"	56	22	2.5	
30528	182.0	183.0		1	11	"	52	25	2.8	
30529	184.1	185.0		<1	<5	"	34	18	0.7	
30530	186.0	187.0	slumped siltstone.	2	"	"	11	26	0.7	
30531	188.0	189.0		2	"	10	17	26	3.7	
30532	190.0	191.0		5	"	<10	19	20	2.7	
30533	192.0	193.0		1	"	11	31	34	1.8	
30534	194.0	195.0		2	"	12	23	25	0.3	
30535	196.0	197.0		2	"	<10	20	17	0.1	
30536	199.0	200.0	Debris flow sediments	7	17	"	78	35	3.9	
30537	202.0	202.9	and interbedded quartzites	<1	17	"	91	37	3.6	
30538	205.5	206.5		1	<5	"	32	24	3.3	
30539	208.0	209.0		1	<5	"	35	24	1.5	
30540	211.0	212.0		6	7	"	42	44	3.8	
30541	214.0	215.0		6	7	"	50	34	3.1	
30542	217.0	218.0		5	<5	"	61	23	0.2	
30543	220.0	221.0		1	8	"	49	19	0.1	
30544	223.0	224.0		2	<5	"	82	32	0.6	
30545	226.0	227.0		2	<5	"	47	24	0.3	

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SSF 128526.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 005	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30546	229.0	230.0	Debris flow sediments	4	<5	<10	79	31	0.4	
30547	232.0	233.0	and interbedded quartzite.	2	11	"	50	16	0.1	
30548	235.0	236.0		1	8	"	57	14	0.1	
30549	237.0	238.0		2	6	"	65	24	2.7	
30550	241.0	242.0		7	9	"	78	28	3.8	
30701	244.0	245.0		6	13	"	64	27	3.1	
30702	247.0	248.0		7	17	"	82	34	3.8	
30703	250.0	251.0		3	<5	"	56	36	2.2	
30704	253.0	254.0		4	7	"	53	33	2.5	
30705	256.0	257.0		2	29	"	20	35	1.6	
30706	259.0	260.0		2	12	"	29	31	2.2	
30707	262.0	263.0		5	8	"	25	34	2.3	
30708	265.0	266.0		5	11	"	37	49	2.9	
30709	268.0	269.0		4	21	"	19	50	1.7	
30710	269.0	270.0		4	19	"	15	49	1.8	
30711	272.0	273.0		1	6	"	41	27	1.4	
30712	275.0	276.0		10	10	"	47	21	2.6	
30713	278.0	279.0		8	11	"	52	21	2.7	
30714	281.0	282.0		7	9	"	56	28	3.0	
30715	284.0	285.0		3	8	"	70	23	3.5	
30716	287.0	288.0		6	28	10	36	25	3.8	
30717	289.0	290.0		3	16	<10	46	36	2.5	
30718	290.0	291.0		4	10	"	46	33	2.8	
30719	291.0	292.3		5	61	"	55	41	4.5	
30720	294.0	295.0		4	20	"	46	32	3.1	

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SSF 128526.

NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB005	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30721	296.0	297.0	Interbedded siltstone,	2	26	10	58	30	4.4	
30722	299.0	300.0	sandstone, debris flow	3	<5	14	23	29	1.4	
30723	302.0	303.0	units.	4	<5	12	24	22	3.5	
30724	305.0	306.0		5	<5	<10	23	22	2.7	
30725	308.0	309.0		8	21	"	39	10	2.4	
30726	311.0	312.0		4	17	"	23	13	2.6	
30727	314.0	315.0		3	18	"	35	22	2.7	
30728	317.0	318.0		4	15	"	93	35	2.6	
30729	320.0	321.0		4	<5	"	31	8	0.6	
30730	323.0	324.0		6	<5	16	20	32	0.3	
30731	326.0	327.0		4	<5	11	16	23	0.2	
30732	329.0	330.0		1	<5	12	17	31	0.2	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB006	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N	E		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
30733	11.0	12.9	Weathered volcanics?	10	24	12	19	34	<0.1	
30734	16.4	18.2		9	<5	14	15	28	<0.1	
30735	29.0	30.8		14	17	14	27	20	<0.1	
30736	33.0	35.0		12	11	12	21	13	0.1	
30737	36.0	38.0		10	10	<10	29	19	1.3	
30738	44.0	45.0	Qtz – ser – carb – py	12	9	<10	21	16	2.8	
30739	53.0	54.0	alteration of rocks(?)	17	<5	13	15	34	2.4	
30740	62.0	63.0		21	18	14	22	24	6.6	
30741	64.0	65.0		12	22	<10	17	22	4.1	
30742	66.0	67.0		12	11	<10	14	25	2.1	
30743	70.0	71.0	Qtz – carb – ser – pyrite	28	21	19	24	32	4.1	
30744	72.0	73.0	altered rocks	12	11	<10	22	15	2.0	
30745	75.0	76.0		9	12	10	33	19	2.5	
30746	78.0	79.0		9	13	15	22	25	2.1	
30747	80.0	81.0		3	<5	<10	17	19	2.8	
30748	81.0	82.0		7	<5	"	26	17	2.2	
30749	82.0	83.0		3	<5	"	20	21	2.3	
30750	84.0	85.0		6	10	"	20	24	2.0	
31001	86.0	87.0		5	12	"	22	23	2.4	
31002	87.0	88.0		1	<5	"	23	28	3.0	
31003	88.0	89.0		2	<5	"	54	24	3.1	
31004	90.0	91.0		8	8	"	30	28	2.4	
31005	92.0	93.0		7	9	"	27	28	3.2	
31006	94.0	95.0		6	7	11	16	28	2.9	
31007	96.0	97.0		4	6	<10	21	31	2.1	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 006	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	Xm	Xm		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm. As	% S	
31008	98.0	99.0		11	16	<10	15	36	2.5	
31009	100.0	101.0		22	29	19	25	45	2.5	
31010	102.0	103.0		9	21	11	17	29	1.9	
31011	104.0	105.0		8	28	17	17	39	2.8	
31012	106.0	107.0		8	19	14	18	44	1.9	
31013	108.0	109.0		6	67	<10	14	39	1.9	
31014	110.0	111.0		3	60	13	27	40	1.5	
31015	112.0	113.0		7	17	11	14	34	1.5	
31016	113.0	114.0		9	21	<10	21	29	1.7	
31017	114.0	115.0		6	14	11	26	33	4.5	
31018	115.0	116.0		3	10	<10	23	37	1.9	
31019	117.0	118.0		3	<5	"	24	46	0.9	
F 526 31020	119.0	120.0		3	<5	"	32	38	1.4	
F 527 31021	121.0	122.0		3	6	"	34	40	1.9	
31022	122.0	123.0		6	22	"	29	24	1.8	
31023	125.0	126.0		7	8	"	33	40	2.0	
31024	127.0	128.0	Grit – conglomerate;	2	8	"	17	28	1.1	
31025	130.0	131.0	carb – silica alteration.	3	8	"	24	25	1.3	
31026	133.0	134.0		2	38	"	21	11	1.0	
31027	136.0	137.0		1	<5	"	30	15	1.4	
31028	139.0	140.0		1	37	"	60	14	0.7	
31029	142.0	143.0		<1	25	"	22	16	0.9	
31030.	145.0	146.0		4	12	"	20	22	1.8	
31031	148.0	149.0	Shales, siltstones	27	18	15	21	44	4.9	
31032	151.0	152.0		28	21	15	24	44	3.2	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 006	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
31033	154.0	155.0		6	5	11	38	33	2.3	
31034	155.0	156.0	Soft sediment debris flows.	3	<5	<10	21	30	2.3	
31035	157.0	158.0		3	<5	"	51	35	3.3	
31036	160.0	161.0		3	<5	"	31	21	3.6	
31037	163.0	164.0		2	<5	"	26	21	2.2	
31038	166.0	167.0		2	15	"	32	25	1.6	
31039	169.0	170.0		24	11	"	22	23	3.0	
31040	171.0	172.0		<1	6	"	36	31	2.2	
31041	174.0	175.0	siltstone / sandstone.	<1	<5	"	24	18	1.8	
31042	177.0	178.0		1	<5	"	26	17	2.1	
31043	180.0	181.0		<1	17	"	42	25	2.4	
31044	183.0	184.0		1	8	"	30	19	1.8	
31045	186.0	187.0		<1	15	"	25	17	1.3	
31046	189.0	190.0		5	10	"	28	28	1.9	
31047	192.0	193.0		5	8	"	36	22	2.5	
31048	195.0	196.0		1	<5	"	24	23	2.2	
31049	198.0	199.0		6	16	15	22	33	2.3	
31050	200.0	201.0	Black shales – siltstone.	19	21	12	9	42	3.2	
31051	202.0	203.0		12	24	14	14	27	2.7	
31052	205.0	206.0		21	28	16	21	40	3.2	
31053	208.0	209.0	Soft sediment debris flows.	2	16	<10	24	24	3.5	
31054	210.0	211.0		5	35	"	20	30	3.0	
31055	212.0	213.0		3	13	"	26	21	2.9	
31056	214.0	215.0		6	17	"	24	34	4.0	
31057	216.0	217.0		42	23	15	22	39	3.3	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB006	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N/m	E/m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
31058	219.0	220.0	Quartzite – siltstone –	9	9	12	23	19	2.3	
31059	222.0	223.0	minor shale.	7	12	13	20	38	2.5	
31060	225.0	226.0		82	18	17	20	29	2.7	
31061	228.0	229.0		11	12	12	26	18	3.0	
31062	231.0	232.0		17	16	<10	21	40	2.9	
31063	234.0	235.0		4	11	"	24	10	1.9	
31064	237.0	238.0		31	11	"	20	9	2.2	
31065	241.0	242.0	Black graphitic shale.	35	20	17	15	34	2.8	
31066	243.0	244.0		83	25	13	14	34	3.1	
31067	245.0	246.0		58	15	<10	13	24	3.0	
31068	248.0	249.0		51	15	<10	17	25	3.3	
31069	250.0	251.0		79	32	12	12	29	3.0	
31070	253.0	254.0		52	26	11	13	26	3.7	
31071	256.0	257.0	siltstone – qtzite, pervasive	7	11	<10	20	16	2.1	
31072	259.0	260.0	carb–py alteration.	7	14	"	17	10	2.1	
31073	262.0	263.0		11	12	"	24	15	4.0	
31074	265.0	266.0		9	12	"	14	11	1.9	
31075	268.0	269.0		11	11	"	11	16	1.8	
31076	271.0	272.0		7	7	"	15	10	2.2	
31077	274.0	275.0		3	<5	"	20	13	1.4	
31078	277.8	278.0		3	<5	"	15	9	1.7	
31079	280.0	281.0		5	<5	"	15	6	1.9	
31080	283.0	284.0		12	8	"	17	6	4.1	
31081	286.0	287.0		11	5	"	18	15	4.8	
31082	289.0	290.0		20	11	"	17	10	2.1	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 006	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
31083	295.0	296.0		3	<5	<10	14	22	1.5	
31084	297.0	298.0		7	9	"	18	23	2.4	
31085	299.0	300.0		5	<5	"	15	14	2.0	
31086	300.0	301.0		4	<5	"	17	17	2.9	
31087	303.0	304.0		6	<5	"	11	16	2.5	
31088	304.0	305.0		5	<5	"	13	15	3.0	
31089	306.0	307.0		40	9	12	13	37	3.9	
31090	308.0	309.0	Sediments, slumped, qtz	26	6	<10	19	14	5.5	
31091	309.0	310.0	veined and pyritic	40	7	14	15	26	4.3	
31092	310.0	311.0		47	12	19	15	28	4.7	
31093	311.0	312.0		32	54	10	19	28	4.6	
31094	312.0	313.0		55	12	12	13	28	4.6	
31095	313.0	314.0		138	22	<10	15	27	5.1	
31096	314.0	315.2	Fault zone; disrupted sed.	1	<5	<10	14	7	0.3	
31097	315.2	317.0		73	17	13	21	50	6.5	
31098	317.0	318.0		55	13	12	16	49	5.3	
31099	318.0	319.0		24	15	<10	20	28	5.5	
31100	319.0	320.5		62	13	12	17	51	7.1	
31101	321.0	322.0		131	19	14	14	40	4.6	
31102	323.0	324.0		107	18	13	17	32	3.9	
31103	328.0	329.0		21	8	<10	15	27	3.5	
31104	329.0	330.0		2	<5	"	10	28	1.6	
31105	330.0	331.0		9	5	"	13	29	3.0	
31106	331.0	332.0		5	<5	"	13	22	2.4	
31107	334.0	335.0	Altered phyllitic sediments	4	6	12	17	17	3.5	

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NEWNHAM EXPLORATION and MINING SERVICES
SAMPLE RECORD

Project		Sampler		Sample Type	NB 006.	Laboratory		Sampling Period	

Sample Number	Co-ordinates		Description	Assays						Comments
	N m	E m		ppb Au	ppm Cu	ppm Pb	ppm Zn	ppm As	% S	
31108	337.0	338.0		8	<5	13	17	11	4.4	
31109	338.0	339.0	Grit, conglomerate, debris	8	<5	10	20	11	7.7	
31110	339.0	340.0	flow.	9	9	<10	17	24	8.0	
31111	342.0	343.0		14	10	11	20	22	4.7	
31112	345.0	346.0	felsopathic(?) sandstone	22	8	<10	20	27	4.6	
31113	348.0	349.0	with quartz – ser – carb	17	8	"	20	28	2.1	
31114	350.0	351.0	alteration.	2	11	"	20	31	0.7	
31115	352.0	353.0		1	<5	"	15	38	0.5	
31116	354.0	355.0		5	8	"	25	23	1.0	
31117	357.0	358.0		6	<5	"	20	31	<0.1	
31118	360.0	361.0		4	9	"	55	23	0.1	
31119	363.0	364.0		1	<5	64	25	36	0.3	
31120	364.0	365.0		3	11	<10	16	24	1.7	
31121	367.0	368.0		2	8	<10	20	16	0.8	
31122	370.0	371.0		2	<5	15	30	17	0.7	
31123	372.0	373.0		5	<5	<10	39	13	0.5	
31124	374.0	375.0		1	6	<10	23	11	0.6	

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APPENDIX 7

Drill Log Sample Register

(Pacific-Nevada)

ASSAYS

Project: Cape Sorell **Prospect:** North Butler **Exploration Licence:** EL10/97 **Hole Number:** NB001

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm										ppm		
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
17951	4	7	4	-			163		44		485		-0.5		-5									185		
17953	14	15	2	-			89		52		207		-0.5		-5									-50		
17954	20	21	2	-			71		22		105		-0.5		-5									55		
17955	24	25	-1	-			45		24		206		-0.5		-5									55		
17957	24	35	2	-			116		21		365		-0.5		-5									-50		
17956	30	31	10	6			181		51		640		-0.5		-5									350		
17958	38	39	2	-			97		18		219		-0.5		-5									515		
17959	41	42	3	-			-5		11		44		-0.5		-5									440		
17960	42	43	-1	1			11		14		65		0.7		-5									870		
17961	43	44	-1	-			130		16		61		-0.5		-5									840		
17962	44	45	-1	-			46		16		52		-0.5		-5									4020		
17963	45	46	-1	-			42		16		61		-0.5		-5									6760		
17964	46	47	-1	-			36		18		95		-0.5		-5									2250		
17965	47	48.5	-1	-			39		18		68		-0.5		-5									2120		
17966	48.5	50	13	12			41		-10		21		-0.5		22									15500		
17967	50	52	7	6			16		10		48		-0.5		23									19100		
17968	52	54.2	6	-			14		-10		27		-0.5		-5									8900		
17969	54.2	56	-1	-			57		11		26		-0.5		-5									1160		
30170	57	58	1	-9000			169		-10		35		-0.5		-5									960	-3000	

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		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		10		5		0.5		5									50	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
ample lumber	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30171	59	60	4	-9000			12		-10		22		-0.5		-5									1900	-3000	
30172	61	62	3	-9000			11		-10		25		-0.5		-5									2980	-3000	
30173	64	65	6	-9000			130		-10		22		-0.5		-5									5150	-3000	
30174	65	66	5	-9000			13		-10		20		-0.5		-5									3200	-3000	
30175	67	68	19	-9000			-5		-10		35		-0.5		-5									1430	-3000	
30176	69	70	7	-9000			5		-10		42		-0.5		-5									2680	-3000	
30177	72	73	2	3			37		-10		58		-0.5		-5									1630	-3000	
30178	77.3	79	11	-9000			9		-10		23		-0.5		-5									13700	-3000	
30179	79	80	18	-9000			15		-10		21		-0.5		-5									25000	-3000	
30180	80	81	3	-9000			-5		-10		35		-0.5		-5									3520	-3000	
30181	81	82	4	-9000			7		-10		25		-0.5		-5									13600	-3000	
30182	82	83	5	-9000			6		-10		28		-0.5		-5									13800	-3000	
30183	83	84	13	-9000			7		-10		18		-0.5		-5									13100	-3000	
30184	84	85	28	-9000			15		-10		29		-0.5		11									18800	-3000	
30185	85	86	69	68			43		-10		41		-0.5		20									55000	-3000	
30186	92	93	5	-9000			68		-10		141		-0.5		-5									1260	-3000	
30187	94	95	3	-9000			115		22		108		-0.5		-5									925	-3000	
30188	96	97	2	-9000			75		28		215		-0.5		-5									445	-3000	
30189	98	99	6	-9000			110		26		149		-0.5		-5									415	-3000	
30190	100	101	4	-9000			13		28		300		-0.5		-5									215	-3000	
30191	103	104	3	-9000			79		24		301		-0.5		-5									690	-3000	
30192	106	107	1	-9000			12		-10		226		-0.5		-5									180	-3000	
30193	108	109	2	-9000			350		-10		185		-0.5		-5									4810	-3000	

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
	Detection Limit		1	1			5		10		5		0.5		5									50	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
ample lumber	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30194	109	110	-1	-9000			269		20		268		-0.5		-5									2510	-3000	
30195	110	111	2	-9000			51		-10		185		-0.5		-5									315	-3000	
30196	111	112	1	1			103		22		122		-0.5		-5									755	-3000	
30197	113	114	3	-9000			103		28		144		-0.5		-5									3190	-3000	
30198	115	116	4	-9000			413		20		120		-0.5		-5									3220	-3000	
30199	116	117	3	4			112		-10		86		-0.5		-5									1140	-3000	
30200	117	118	5	-9000			149		-10		97		-0.5		-5									2290	-3000	
30201	118	119	2	-9000			59		22		90		-0.5		-5									1910	-3000	
30202	119	120	-1	-1			162		-10		89		-0.5		-5									2210	-3000	
30203	120	121	3	2			122		-10		95		-0.5		-5									1340	-3000	
30204	121	122	4	-9000			129		-10		135		-0.5		-5									575	-3000	
30205	122	123	-1	-9000			61		-10		119		-0.5		-5									1580	-3000	
30206	123	124	5	-9000			103		-10		94		-0.5		-5									1900	-3000	
30207	128.1	129	1	-9000			120		-10		91		-0.5		-5									1280	-3000	
30208	129	130	-1	-9000			145		-10		75		-0.5		-5									1190	-3000	
30209	131	132	4	-9000			83		-10		64		-0.5		-5									5530	-3000	
30210	134	135	6	-9000			174		-10		67		-0.5		-5									6740	-3000	
30211	137	138	2	-9000			131		-10		76		-0.5		-5									4120	-3000	
30212	139	140	-1	-9000			100		-10		50		-0.5		-5									5210	-3000	
30213	141	142	3	-9000			32		-10		60		-0.5		-5									530	-3000	
30214	143	144	1	-9000			78		-10		82		-0.5		-5									525	-3000	
30215	145	146	13	11			32		-10		45		-0.5		-5									1550	-3000	
30216	146	147	6	-9000			-5		-10		18		-0.5		-5									10800	-3000	

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		10		5		0.5		5									50	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30217	147	148	25	24			11		-10		18		-0.5		-5									28500	-3000	
30218	148	149	4	-9000			-5		-10		22		-0.5		-5									10200	-3000	
30219	149	150	18	-9000			31		-10		32		-0.5		17									33500	-3000	
30220	150	151	16	12			21		-10		26		-0.5		-5									25000	-3000	
30221	151	152	14	-9000			16		-10		18		-0.5		-5									20500	-3000	
30222	152	153	7	-9000			13		-10		19		-0.5		17									22500	-3000	
30223	153	154	6	-9000			7		-10		13		-0.5		22									8960	-3000	
30224	154	155	16	-9000			59		-10		27		-0.5		-5									44500	-3000	
30225	155	156.3	33	-9000			103		-10		24		-0.5		-5									74000	-3000	
30226	156.4	158	7	-9000			14		-10		18		-0.5		12									12100	-3000	
30227	158	159	19	18			16		-10		14		-0.5		-5									34500	-3000	
30228	159	160	59	53			51		-10		28		-0.5		20									66000	-3000	
30229	160	161	26	-9000			19		-10		26		-0.5		-5									27000	-3000	
30230	161	162	48	48			41		-10		31		-0.5		14									50000	-3000	
30231	162	163	61	-9000			55		-10		26		-0.5		-5									62000	-3000	
30232	163	164	21	-9000			16		-10		16		-0.5		-5									21500	-3000	
30234	164	165	185	-9000			155		36		20		3		29									>10000(	15.51	
30235	165	166	109	-9000			81		22		17		-0.5		-5									>10000(	15.12	
30236	166	167	53	-9000			46		-10		56		-0.5		-5									79500	-3000	
30237	167	168	176	199			180		42		21		4		30									>10000(	18.76	
30238	168	169	83	-9000			73		-10		17		-0.5		16									87500	-3000	
30239	169	170	42	-9000			45		-10		21		-0.5		-5									66500	-3000	
30240	170	171	93	94			174		40		20		-0.5		27									>10000(	13.12	

		Units	ppb	ppb			ppm		ppm		ppm		ppm										ppm	%	
	Detection Limit		1	1			5		10		5		0.5		5								50	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104								I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30241	171	172	60	-9000			47		-10		23		-0.5		10									55500	-3000	
30242	172	173	86	87			69		-10		19		-0.5		-5									89500	-3000	
30243	173	174	22	-9000			29		-10		15		-0.5		-5									52000	-3000	
30244	174	175	13	-9000			29		-10		16		-0.5		-5									68000	-3000	
30245	175	176	4	-9000			18		-10		18		-0.5		-5									63000	-3000	
30246	176	177	5	-9000			20		-10		25		-0.5		-5									15000	-3000	
30247	177	178	-1	-9000			-5		-10		19		-0.5		-5									9820	-3000	
30248	178	179	9	-9000			23		-10		-5		-0.5		-5									44000	-3000	
30249	179	180	14	15			81		-10		-5		-0.5		-5									>10000(	11.49	
30250	180	181.7	14	-9000			31		-10		6		-0.5		-5									32000	-3000	
30251	181.7	182.6	34	-9000			44		-10		35		-0.5		13									29500	-3000	
30252	183.6	185.2	17	-9000			17		-10		9		-0.5		-5									19400	-3000	
30253	186	187.5	6	-9000			13		-50		45		-5		-10									7220	-3000	
30254	187.5	189	46	42			34		-50		39		-5		11									40000	-3000	
30255	191	192	43	-9000			23		-50		37		-5		-10									32500	-3000	
30256	193	194	17	-9000			17		-50		34		-5		12									29000	-3000	
30257	195	196	14	10			36		-50		36		-5		-10									6640	-3000	
30258	197	198	20	-9000			8		-50		35		-5		-10									8640	-3000	
30259	200	201	24	-9000			8		-50		33		-5		-10									12500	-3000	
30260	201	202	29	-9000			18		-50		37		-5		-10									25000	-3000	
30261	206	207	8	-9000			-5		-50		34		-5		-10									7010	-3000	
30262	207	208	9	8			5		-50		32		-5		-10									10500	-3000	
30263	209.3	210.7	10	-9000			13		-50		34		-5		-10									25500	-3000	

69719

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
	Detection Limit		1	1			5		50		5		5		10									10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30264	212.9	215.3	18	14			7		-50		38		-5		-10									41500	-3000	
30265	215.3	218.8	33	-9000			18		-50		34		-5		-10									73000	-3000	
30266	218.8	222.6	24	-9000			22		-50		37		-5		-10									63000	-3000	
30267	222.6	223.7	45	48			19		-50		34		-5		-10									70000	-3000	
30268	223.7	225.6	19	-9000			11		-50		31		-5		-10									79500	-3000	
30269	225.6	229	16	-9000			-5		-50		33		-5		-10									37500	-3000	
30270	229	234	4	5			51		-50		38		-5		455									>100000	18.75	
30271	234.1	236.9	3	-9000			-5		-50		57		-5		510									>100000	20.15	
30272	236.9	238.3	1	-9000			6		-50		49		-5		14									69000	-3000	
30273	238.3	240	2	-9000			5		-50		38		-5		-10									24500	-3000	
30274	241	242	1	2			10		-50		43		-5		-10									22000	-3000	
30275	243	244	5	-9000			8		-50		42		-5		-10									14600	-3000	
30276	245	246.2	-1	-9000			-5		-50		44		-5		180									38500	-3000	
30277	246.2	247.4	-1	-9000			-5		-50		28		-5		15									9510	-3000	
30278	247.4	248.8	5	-9000			-5		-50		40		-5		-10									18100	-3000	
30279	250	251	2	-9000			7		-50		42		-5		-10									25500	-3000	
30280	253	254.5	4	-9000			-5		-50		48		-5		-10									32000	-3000	
30281	256	257.8	5	-9000			7		-50		46		-5		-10									34500	-3000	
30282	259.3	260.5	4	-9000			8		-50		43		-5		-10									35000	-3000	
30283	260.5	262	2	2			5		-50		43		-5		-10									24500	-3000	
30284	265	266	7	-9000			17		-50		36		-5		-10									19900	-3000	
30285	266	267	2	-9000			5		-50		46		-5		-10									15200	-3000	
30286	268	269.3	3	-9000			-5		-50		40		-5		-10									10400	-3000	

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		50		5		5		10									10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30287	272	273	4	6			6		-50		40		-5		-10									26500	-3000	
30288	274.5	276	2	-9000			-5		-50		40		-5		-10									11500	-3000	
30289	276	277	-1	-9000			-5		-50		41		-5		-10									14500	-3000	
30290	278	280	4	-9000			5		-50		42		-5		-10									25000	-3000	
30291	283.1	284	-1	-9000			11		-50		58		-5		-10									39000	-3000	
30292	285	286	-1	-9000			-5		-50		58		-5		-10									43500	-3000	
30293	287	288	6	5			8		-50		53		-5		-10									25000	-3000	
30294	289	290	4	-9000			11		-50		40		-5		-10									28500	-3000	
30295	291	292	4	-9000			-5		-50		61		-5		-10									15500	-3000	
30296	293	294	3	-9000			11		-50		70		-5		-10									28000	-3000	
30297	295	296	-1	-9000			13		-50		51		-5		-10									39500	-3000	
30298	297	298	6	-9000			86		-50		42		-5		-10									34000	-3000	
30299	300	301	2	-9000			5		-50		59		-5		-10									15200	-3000	
30300	303	304	4	-9000			6		-50		113		-5		-10									17300	-3000	
30301	305	306	1	-9000			-5		-50		45		-5		-10									3850	-3000	
30302	307	308	1	-9000			-5		-50		45		-5		-10									3350	-3000	
30303	309	310	3	-9000			6		-50		58		-5		-10									13100	-3000	
30304	311.8	313	7	-9000			35		-50		56		-5		-10									32500	-3000	
30305	314	315	2	1			23		-50		66		-5		-10									12300	-3000	
30306	316.6	318	5	-9000			-5		-50		64		-5		-10									10500	-3000	
30307	319	320	1	-9000			6		-50		55		-5		-10									11900	-3000	
30308	321	322	4	-9000			10		-50		40		-5		-10									15300	-3000	
30309	323	324	-1	-9000			15		-50		56		-5		-10									25500	-3000	

		Units	ppb	ppb			ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		50		5		5		10							10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104							I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30310	325	326	4	-9000			10		-50		64		-5		-10									26000	-3000	
30311	327	328	3	4			9		-50		63		-5		-10									24500	-3000	
30312	329	330	1	2			8		-50		56		-5		-10									17500	-3000	
30313	331	332	7	-9000			9		-50		55		-5		-10									20000	-3000	
30314	333	334	2	-9000			33		-50		57		-5		-10									25000	-3000	
30315	334	335	3	-9000			21		-50		56		-5		-10									25000	-3000	

ASSAYS

Project: Cape Sorell **Prospect:** North Butler **Exploration Licence:** EL10/97 **Hole Number:** NB002

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5									50		
		Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
17970	5	6	1	-			92		30		153		-0.5		-5									60		
17971	8	9	-1	-			83		31		163		-0.5		-5									-50		
17972	13	14	-1	-			30		27		220		-0.5		-5									-50		
17973	19	20	-1	-			151		16		129		-0.5		-5									-50		
17974	23	24	-1	-			132		19		60		-0.5		-5									-50		
17975	28	29	1	-			84		16		64		-0.5		-5									120		
17976	32	33	-1	-			-5		13		61		-0.5		-5									85		
17977	35	36	-1	-			82		18		64		-0.5		-5									70		
17978	38	39	-1	-			94		14		68		-0.5		-5									365		
17979	41	42	2	3			225		14		63		-0.5		-5									295		
17980	44	45	-1	-			46		20		90		-0.5		-5									-50		
17981	47	48	4	-			111		17		90		-0.5		-5									1760		
17982	50	51	2	-			90		19		84		-0.5		-5									1720		
17983	54	55	4	-			106		14		102		-0.5		-5									245		
17984	57	58	3	-			67		14		77		-0.5		-5									170		
17985	60	61	6	4			105		15		84		-0.5		-5									820		
17986	63	64	-1	-			74		11		92		-0.5		-5									355		
17987	66	67	1	-			112		15		102		-0.5		-5									335		
17988	69	70	3	-			129		22		94		-0.5		-5									4090		

		Units	ppb	ppb			ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5							50		
		Method	F614	F614			I104		I104		I104		I104		I104							I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
17989	73	74	-1	-			118		20		123		-0.5		-5									1110		
17990	75	77	-1	-			82		19		137		-0.5		10									2690		
17991	79	80	3	-			56		12		93		-0.5		7									1520		
17992	81	82.2	-1	-			21		18		56		-0.5		6									11600		
17993	82.2	84	-1	-			113		21		110		-0.5		-5									3810		
17994	85	86	-1	-			101		23		207		-0.5		-5									3900		
17995	87	88	-1	-			211		23		155		-0.5		-5									1180		
17996	89	90	-1	-			265		28		98		-0.5		6									2090		
17997	91	92	-1	-			154		24		300		-0.5		-5									150		
17998	94	95	-1	-			107		24		235		-0.5		-5									105		
17999	97	98	3	-			7		15		31		-0.5		-5									850		
18000	100	101	-1	-			103		17		125		-0.5		-5									215		
30101	102	103.5	1	-1			47		16		58		0.6		-5									1030		
30102	107	108	-1	-1			106		23		155		-0.5		-5									810		
30103	110	111.4	-1	-			105		18		83		-0.5		-5									570		
30104	114	116	3	-			-5		-10		16		-0.5		-5									12700		
30105	116	117	2	-			-5		-10		13		-0.5		-5									17700		
30106	118	120	4	-			-5		-10		15		-0.5		-5									9590		
30107	122	124.1	1	-			9		-10		19		-0.5		-5									11700		
30108	124.1	125	163	173			75		19		26		-0.5		74									>50000		
30109	127.5	129	3	-			-5		-10		7		-0.5		-5									5300		
30110	132	133	2	2			6		-10		11		-0.5		6									7030		
30111	133.5	135	23	-			29		-10		14		-0.5		6									18400		

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		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
	Detection Limit		1	1			5		10		5		0.5		5									50		
		Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30112	137	138	16	-			25		-10		13		-0.5		-5									19700		
30113	140	141	37	-			36		14		27		-0.5		32									49500		
30114	141	142	38	-			47		16		30		-0.5		41									>50000		
30115	142	144	31	-			68		18		40		-0.5		230									>50000		
30116	149	150	4	-			-5		-10		9		-0.5		-5									6180		
30117	152	153	45	-			16		-10		14		-0.5		7									17600		
30118	155	156	19	-			21		-10		17		-0.5		17									29500		
30119	158	159	23	-			27		10		15		-0.5		28									43000		
30120	161	162	29	32			54		23		23		-0.5		43									>50000		
30121	164	165	32	32			319		27		33		-0.5		45									>50000		
30122	167	168	26	-			34		17		19		-0.5		33									>50000		
30123	170	171	69	-			116		21		27		-0.5		10									>50000		
30124	173	174	51	-			73		32		26		-0.5		18									>50000		
30125	178	179	65	-			62		28		53		-0.5		7									>50000		
30126	181	182	65	-			62		25		37		-0.5		-5									>50000		
30127	184	185	43	-			71		20		33		-0.5		-5									>50000		
30128	188	189	10	-			7		-10		-5		-0.5		55									5760		
30129	191	192	13	-			-5		-10		-5		-0.5		25									3950		
30130	194	195	8	-			-5		-10		-5		-0.5		21									4550		
30131	197	198	6	-			6		-10		-5		-0.5		15									6830		
30132	200	201	5	-			7		-10		-5		-0.5		19									4510		
30133	203	204	4	-			-5		-10		-5		-0.5		18									3840		
30134	205	206	4	6			-5		-10		-5		-0.5		24									4230		

CGT 2/99

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm												
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn	
30135	208	209	4	5			-5		-10		-5		-0.5		9									6510			
30136	209	210	9	-			24		18		10		-0.5		9									33000			
30137	210	211	36	-			89		56		7		1.8		27									>50000			
30138	211	212	37	-			108		54		7		1.4		18									>50000			
30139	212	213	72	-			176		82		13		1.9		22									>50000			
30140	213	214	10	-			34		17		33		-0.5		-5									43500			
30141	214	215	19	23			80		31		11		0.7		7									>50000			
30142	215	216	31	-			168		62		15		1.8		13									>50000			
30143	216	217	12	-9000			103		26		17		-0.5		-5									63500	-3000		
30144	217	218	18	-9000			71		34		27		-0.5		-5									75000	-3000		
30145	218	219	65	-9000			114		52		26		-0.5		-5									>10000(	12.39		
30146	219	220	91	-9000			266		78		31		-0.5		31									>10000(	18.54		
30147	220	221	118	124			234		52		23		3		26									>10000(	18.12		
30148	221	222	80	-9000			45		26		17		-0.5		-5									69000	-3000		
30149	222	223	21	-9000			37		-10		20		-0.5		-5									53500	-3000		
30150	224	225	32	25			78		38		19		-0.5		12									87500	-3000		
30151	225	226	7	-9000			22		-10		20		-0.5		16									21500	-3000		
30152	226	227	22	28			60		-10		23		-0.5		-5									77500	-3000		
30153	229	230	7	-9000			19		-10		17		-0.5		-5									43500	-3000		
30154	231	232	4	-9000			8		-10		49		-0.5		-5									21500	-3000		
30155	234	235	4	-9000			39		-10		-5		-0.5		-5									35000	-3000		
30156	235	236	8	-9000			94		-10		10		-0.5		-5									64000	-3000		
30157	237	238	10	-9000			23		-10		11		-0.5		-5									29000	-3000		

		Units	ppb	ppb			ppm		ppm		ppm		ppm										ppm	%	
		Detection Limit	1	1			5		10		5		0.5		5								50	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104								I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30158	240	241	14	-9000			24		-10		6		-0.5		17									23000	-3000	
30159	241	242	21	-9000			69		-10		30		-0.5		19									24500	-3000	
30160	244	245	30	34			37		-10		23		-0.5		-5									20000	-3000	
30161	246	247	11	-9000			22		-10		30		-0.5		11									12900	-3000	
30162	248	249	27	-9000			35		-10		21		-0.5		-5									20500	-3000	
30163	250	251	12	12			23		-10		15		-0.5		-5									17700	-3000	
30164	251	252	16	-9000			8		-10		10		-0.5		-5									7600	-3000	
30165	252	253	21	-9000			20		-10		24		-0.5		-5									19500	-3000	
30166	255	256	11	-9000			21		-10		28		-0.5		-5									36000	-3000	
30167	258	259	68	57			19		-10		22		-0.5		-5									39500	-3000	
30168	259.5	261	46	-9000			23		-10		22		-0.5		-5									51000	-3000	
30169	261	262.5	20	-9000			40		-10		23		-0.5		-5									38000	-3000	

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ASSAYS

Project: Cape Sorell **Prospect:** North Butler **Exploration Licence:** EL10/97 **Hole Number:** NB003

		Units	ppb	ppb			ppm		ppm		ppm		ppm											ppm	%	
		Detection Limit	1	1			5		20		5		3		10									10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30551	5	6	9	8			98		-20		188		-3		-10									160	-3000	
30552	8	9	8	-9000			83		-20		224		-3		-10									145	-3000	
30553	11	12	4	-9000			76		-20		233		-3		-10									150	-3000	
30554	14	15	3	-9000			409		-20		191		-3		-10									115	-3000	
30555	17	18	48	33			526		-20		184		-3		-10									105	-3000	
30556	20	21	27	31			352		-20		616		-3		28									115	-3000	
30557	23	24	3	-9000			76		-20		80		-3		10									98	-3000	
30558	26	27	2	-9000			117		-20		77		-3		13									105	-3000	
30559	29	30	5	-9000			39		-20		81		-3		10									200	-3000	
30560	32	33	6	7			306		-20		92		-3		-10									205	-3000	
30561	35	36	5	-9000			102		-20		50		-3		13									1070	-3000	
30562	38	39	6	-9000			132		-20		138		-3		11									1420	-3000	
30563	41	42	9	-9000			96		-20		165		-3		15									1480	-3000	
30564	44	45	7	-9000			121		-20		92		-3		15									795	-3000	
30565	47	48	6	-9000			35		-20		66		-3		-10									355	-3000	
30566	50	51	8	-9000			111		-20		49		-3		29									2520	-3000	
30567	51	52	12	-9000			1455		-20		63		-3		77									2650	-3000	
30568	54	55	10	-9000			93		-20		49		-3		41									3530	-3000	
30569	57	58	6	-9000			89		-20		95		-3		-10									230	-3000	

		Units	ppb	ppb			ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		20		5		3		10							10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104							I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30570	60	61	9	-9000			169		-20		64		-3		-10									575	-3000	
30571	63	64	7	-9000			71		-20		384		-3		16									1570	-3000	
30572	66	67	6	8			123		-20		180		-3		17									1650	-3000	
30573	69	70	9	-9000			78		-20		82		-3		16									920	-3000	
30574	72	73	8	-9000			118		-20		72		-3		38									2220	-3000	
30575	75	76	17	-9000			33		-20		47		-3		19									2180	-3000	
30576	76.5	78	7	-9000			88		-20		60		-3		10									1730	-3000	
30577	79	80	5	5			46		-20		91		-3		-10									490	-3000	
30578	82	83	6	-9000			60		-20		138		-3		-10									365	-3000	
30579	85	86	5	-9000			59		-20		91		-3		-10									890	-3000	
30580	88	89	6	-9000			84		-20		96		-3		-10									465	-3000	
30581	91	92.1	8	-9000			89		-20		31		-3		30									3550	-3000	
30582	98	99	12	13			10		-20		6		-3		16									25000	-3000	
30583	100	101	16	-9000			-5		-20		11		-3		-10									15900	-3000	
30584	103	104	12	-9000			10		-20		8		-3		17									13100	-3000	
30585	107	108	11	10			9		-20		11		3		-10									7510	-3000	
30586	112.5	113.5	106	91			64		-20		17		4		84									97000	9.68	
30587	115	116	23	-9000			15		-20		9		-3		13									28000	-3000	
30588	118	119	9	-9000			-5		-20		12		3		-10									7900	-3000	
30589	121	122	6	-9000			-5		-20		10		-3		-10									3410	-3000	
30590	123	124	6	-9000			9		-20		16		3		-10									5800	-3000	
30591	124	125	4	-9000			6		66		154		-3		16									10300	-3000	
30592	128	129	49	-9000			37		22		8		4		29									49000	-3000	

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		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		20		5		3		10									10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30593	129	130	61	57			54		24		7		4		39									75000	7.47	
30594	132	133	26	-9000			16		20		9		4		22									41000	-3000	
30595	140	141	7	-9000			-5		-20		14		3		-10									9020	-3000	
30596	143	144	2	-9000			-5		22		14		-3		-10									8910	-3000	
30597	146	147	8	-9000			-5		22		10		-3		-10									10400	-3000	
30598	149	151	11	-9000			-5		22		38		-3		-10									12200	-3000	
30599	154	155	8	-9000			-5		24		8		-3		45									18500	-3000	
30600	156	157	29	-9000			13		26		10		-3		75									47000	-3000	
30601	158	159	10	8			-5		28		19		3		-10									7600	-3000	
30602	161	162	13	-9000			48		36		34		-3		11									7370	-3000	
30603	163	164	12	-9000			23		34		32		-3		13									9410	-3000	
30604	165	166	49	-9000			23		38		-5		3		18									28000	-3000	
30605	166	167	242	230			146		62		8		5		53									>10000(	16.87	
30606	167	168	180	180			159		78		10		5		51									>10000(	16.46	
30607	168	169	126	-9000			109		72		10		5		35									>10000(	16.568	
30608	169	170	51	52			53		54		12		4		20									72500	6.668	
30609	170	171	116	128			92		78		26		6		38									>10000(	12.316	
30610	171	172	124	129			81		64		12		5		38									>10000(	13.87	
30611	172	173	68	74			35		46		8		5		22									72500	6.951	
30612	173	174	62	-9000			56		66		9		5		29									75000	6.689	
30613	174	175	41	-9000			55		130		22		5		31									77500	7.146	
30614	175	176	8	-9000			37		46		9		3		21									61500	5.92	
30615	176	177	41	42			67		120		20		4		32									>10000(	11.877	

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm								ppm	%	
		Detection Limit	1	1			5		20		5		3		10								10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104								I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30616	177	178	10	-9000			10		34		6		3		-10								33000	-3000	
30617	178	179	9	-9000			21		34		7		4		14								57000	5.7	
30618	179	180	4	-9000			23		38		7		4		21								91500	8.622	
30619	180	181	31	-9000			31		40		18		3		16								4300	-3000	
30620	181	182	23	-9000			30		28		14		3		17								14000	-3000	
30621	182	183	7	-9000			52		30		16		4		17								38000	-3000	
30622	183	184	8	-9000			44		54		11		4		24								49500	-3000	
30623	184	185	11	12			40		42		7		5		27								64000	5.985	
30624	186.2	188	6	-9000			7		38		-5		5		14								7910	-3000	
30625	188	189	16	-9000			13		30		62		4		15								9490	-3000	
30626	190	191	23	-9000			42		36		9		4		34								28500	-3000	
30627	192	193	5	-9000			16		34		-5		5		14								11000	-3000	
30628	194	195	17	-9000			12		36		5		5		22								12300	-3000	
30629	196	197	24	-9000			23		44		8		5		35								30500	-3000	
30630	198	199	3	-9000			-5		24		-5		3		13								4150	-3000	
30631	200	201	31	-9000			29		50		9		5		35								42500	-3000	
30632	203	204	58	62			35		44		15		5		38								49000	-3000	
30633	206	207	27	-9000			19		40		7		5		32								38000	-3000	
30634	214	215	39	-9000			22		40		9		5		29								31000	-3000	
30635	217	218	26	23			26		42		9		5		29								27500	-3000	
30636	220.3	221	8	-9000			19		32		12		6		19								25500	-3000	
30637	223	224	11	8			10		32		10		4		21								26000	-3000	
30638	226	227	3	-9000			-5		26		7		3		14								5020	-3000	

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		20		5		3		10									10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30639	229	230	3	-9000			-5		28		6		3		18									16100	-3000	
30640	232	233	57	50			12		44		6		5		40									36000	-3000	
30641	235	236	1	-9000			10		-20		5		-3		-10									14900	-3000	
30642	241	242	-1	-9000			10		-20		5		-3		-10									15900	-3000	
30643	243	244	-1	-9000			14		-20		10		-3		-10									9840	-3000	
30644	245	246	-1	-9000			9		-20		12		-3		-10									7310	-3000	
30645	248	249	-1	-9000			12		-20		10		-3		-10									8200	-3000	
30646	250	251	-1	-9000			24		-20		7		-3		-10									8210	-3000	
30647	252	253	3	-9000			12		-20		5		-3		-10									13200	-3000	
30648	254	255	5	-9000			12		-20		11		-3		-10									19300	-3000	
30649	257	258	2	-9000			13		-20		9		-3		-10									24500	-3000	
30650	260	261	3	-9000			16		-20		10		-3		-10									27000	-3000	
30651	263	264	3	-9000			13		-20		7		-3		-10									28000	-3000	
30652	266	267	24	29			14		-20		7		-3		12									37000	-3000	
30653	271	272	8	-9000			9		-20		8		-3		-10									32500	-3000	
30654	274	275	11	-9000			7		-20		6		-3		-10									32000	-3000	
30655	281	282	2	-9000			9		-20		5		-3		-10									17400	-3000	
30656	283	284	1	-9000			10		-20		8		-3		-10									14700	-3000	
30657	285	286	4	-9000			8		-20		19		-3		-10									9600	-3000	
30658	287	288	5	-9000			24		-20		-5		-3		-10									16900	-3000	
30659	289	290	3	-9000			29		-20		5		-3		-10									16900	-3000	
30660	291	292	2	2			11		-20		6		-3		-10									6010	-3000	
30661	293	294	3	-9000			14		-20		11		-3		-10									8410	-3000	

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		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		20		5		3		10									10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30662	295	296	2	-9000			11		-20		17		4		19									4580	-3000	
30663	297	298	2	2			17		-20		31		4		27									3350	-3000	
30664	299	300	2	-9000			12		-20		14		-3		19									29500	-3000	
30665	300	301	3	-9000			12		-20		32		-3		12									7640	-3000	
30666	301	302	-1	-1			9		-20		7		-3		15									14500	-3000	
30667	303	304	-1	-9000			16		-20		9		-3		-10									950	-3000	
30668	305	306	-1	-9000			9		-20		11		-3		60									42500	-3000	
30669	307	308	-1	-9000			9		-20		5		-3		-10									7970	-3000	
30670	309	310	-1	-9000			9		-20		-5		-3		28									8160	-3000	

ASSAYS

Project: Cape Sorell **Prospect:** North Butler **Exploration Licence:** EL10/97 **Hole Number:** NB004

			Units	ppb	ppb		ppm		ppm		ppm		ppm										ppm	%	
			Detection Limit	1	1		5		50		5		5		10								10	0.005	
			Method	F614	F614		I104		I104		I104		I104		I104								I104	V821	
ample umber	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30316	13	14	1	-9000			89		-50		251		-5		-10								115	-3000	
30317	17	180	-1	-9000			56		-50		232		-5		-10								145	-3000	
30318	20	21	3	-9000			81		-50		536		-5		-10								405	-3000	
30319	23	24	1	-9000			139		-50		410		-5		-10								625	-3000	
30320	26	27	1	-9000			46		-50		246		-5		-10								1000	-3000	
30321	29	30	-1	-9000			76		-50		139		-5		-10								1110	-3000	
30322	32	33	5	-9000			84		-50		223		-5		-10								605	-3000	
30323	35	36	6	-9000			95		-50		187		-5		-10								245	-3000	
30324	37	38	-1	-9000			116		-50		304		-5		-10								1250	-3000	
30325	41	42	-1	-9000			95		-50		137		-5		-10								825	-3000	
30326	44	45	-1	-9000			76		-50		238		-5		-10								505	-3000	
30327	47	48	-1	-9000			28		-50		476		-5		-10								480	-3000	
30328	51.8	52.8	2	2			13		-50		83		-5		-10								5120	-3000	
30329	52.8	54.2	-1	-9000			13		-50		100		-5		-10								33000	-3000	
30330	55	56	5	3			80		-50		349		-5		14								1050	-3000	
30331	58	59	1	-9000			73		-50		92		-5		-10								1160	-3000	
30332	61.8	63	4	-9000			5		-50		71		-5		-10								5650	-3000	
30333	63	64	6	-9000			-5		-50		48		-5		-10								5640	-3000	
30334	64	65	6	-9000			-5		-50		52		-5		-10								18000	-3000	

50219

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm	%	
		Detection Limit	1	1			5		50		5		5		10									10	0.005	
		Method	F614	F614			I104		I104		I104		I104		I104									I104	V821	
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30335	66	67	-1	-9000			-5		-50		65		-5		-10									2910	-3000	
30336	68	69	3	4			77		14		69		-0.5		32									2040		
30337	70	71	7	-9000			115		-10		55		0.6		13									545		
30338	72	73	2	-9000			100		-10		50		-0.5		33									1160		
30339	74	75	3	-9000			78		-10		59		0.5		24									520		
30340	76	77	5	-9000			56		-10		62		-0.5		19									435		
30341	78	79	3	-9000			85		-10		50		0.7		16									1470		
30342	80	81	15	14			156		-10		37		0.7		53									6500		
30343	82	83	2	-9000			51		-10		80		-0.5		31									1260		
30344	84	86.3	9	-9000			127		16		389		-0.5		30									965		
30345	86.3	86.8	3	4			105		-10		117		-0.5		9									2740		
30346	86.8	88	1	-9000			81		-10		62		-0.5		-5									4360		
30347	90	91	7	-9000			77		-10		75		-0.5		-5									3900		
30348	93	94	4	-9000			102		-10		562		-0.5		8									7510		
30349	94	95	5	6			54		-10		65		-0.5		-5									5040		
30350	96	97	4	-9000			41		-10		69		-0.5		-5									7530		
30351	98	99	2	-9000			69		-10		69		-0.5		-5									5510		
30352	100	101	4	-9000			119		-10		135		-0.5		-5									5560		
30353	102	103	4	-9000			53		-10		93		-0.5		-5									3660		
30354	104	105	5	-9000			81		-10		80		0.5		-5									7150		
30355	107	108	5	-9000			127		-10		38		0.7		30									4340		
30356	108	109	5	-9000			108		-10		37		0.5		26									3050		
30357	109	110	3	3			83		-10		51		0.7		14									5030		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5									50		
		Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30358	110	111	4	-9000			66		-10		56		-0.5		24									5380		
30359	111	112	-1	-9000			84		-10		58		0.5		12									3700		
30360	112	113	3	-9000			60		-10		49		-0.5		22									3670		
30361	113	114	2	-9000			72		-10		62		-0.5		18									4010		
30362	114	115	-1	-9000			15		-10		71		-0.5		6									5240		
30363	116	117	1	-9000			7		-10		57		1		22									5310		
30364	119	120	-1	-9000			92		-10		69		-0.5		-5									3800		
30365	122	123	-1	-9000			87		-10		65		0.5		6									3240		
30366	125	126	3	-9000			6		-10		47		0.7		10									5340		
30367	128	129	-1	-9000			36		-10		60		-0.5		-5									5890		
30368	131	132	-1	-1			5		-10		25		-0.5		-5									4460		
30369	134	135	-1	-9000			9		-10		46		-0.5		-5									3270		
30370	137	138	-1	-1			28		-10		55		-0.5		-5									2490		
30371	140	141	-1	-9000			46		-10		60		-0.5		-5									4140		
30372	143	144	6	5			26		-10		65		0.6		-5									4630		
30373	146	147	2	-9000			80		-10		91		-0.5		-5									4710		
30374	149	150	7	-9000			95		-10		72		-0.5		11									8670		
30375	152	153	2	-9000			59		-10		60		-0.5		-5									7340		
30376	155	156	3	-9000			93		-10		53		-0.5		7									7010		
30377	158	159	13	17			54		-10		55		-0.5		9									11100		
30378	161	162	7	6			111		-10		58		-0.5		12									6200		
30379	164	165	7	-9000			77		-10		50		-0.5		-5									4850		
30380	167	168	6	-9000			28		-10		55		-0.5		-5									4580		

		Units	ppb	ppb			ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5							50		
		Method	F614	F614			I104		I104		I104		I104		I104							I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30381	170	171	-1	-9000			59		14		112		-0.5		20									280		
30382	173	174	-1	-1			61		13		83		0.5		20									635		
30383	176	177	2	-9000			73		14		311		-0.5		20									1260		
30384	179	180	1	-9000			55		14		137		-0.5		27									310		
30385	182	183	-1	-9000			79		12		108		-0.5		37									1230		
30386	185	186	2	-9000			107		10		293		-0.5		52									580		
30387	188	189	-1	-9000			23		12		97		-0.5		25									540		
30388	191	192	3	-9000			15		-10		78		-0.5		16									1030		
30389	194	195	1	-9000			151		11		76		-0.5		21									1890		
30390	197	198	4	-9000			48		13		295		-0.5		26									585		
30391	200	201	-1	-9000			185		12		103		-0.5		13									3710		
30392	203	204	1	-9000			130		12		136		-0.5		31									1200		
30393	206	207	2	-9000			98		11		242		-0.5		7									1280		
30394	209	210	6	4			42		11		199		-0.5		9									1160		
30395	212	213	224	222			309		12		132		-0.5		14									5330		
30396	215	216	4	2			42		13		116		-0.5		-5									1020		
30397	218	219	9	-9000			40		-10		49		0.6		71									11900		
30398	221	222	2	-9000			-5		-10		44		-0.5		13									6600		
30399	223	224.5	2	-9000			9		-10		37		-0.5		10									2300		
30400	224.5	226	3	-9000			7		-10		24		-0.5		15									4800		
)4 226.0-22	226	227	4	-9000			103		-10		34		-0.5		16									6080		
)4 227.0-22	227	228	3	-9000			15		-10		27		-0.5		9									7170		
)4 228.0-22	228	229.3	17	-9000			20		-10		24		-0.5		74									22000		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm										ppm		
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
004 229.3-23	229.3	231	13	-9000			16		-10		30		-0.5		20									18400		
004 231.0-23	231	231.7	13	-9000			18		-10		19		-0.5		-5									20000		
004 231.7-23	231.7	233	32	34			30		-10		18		-0.5		26									33000		
004 233.0-23	233	234	10	-9000			-5		-10		23		-0.5		78									39500		
004 234.0-23	234	235	5	4			-5		-10		21		0.7		53									70500		
004 235.0-23	235	236.7	11	-9000			8		-10		26		-0.5		33									17100		
004 236.7-23	236.7	238	17	-9000			12		-10		21		-0.5		-5									30500		
004 238.0-23	238	239	14	-9000			16		-10		30		0.7		18									25500		
004 239.0-24	239	240	18	-9000			14		-10		26		-0.5		-5									64000		
004 240.0-24	240	241	15	-9000			12		-10		26		-0.5		17									98000		
004 241.0-24	241	242	16	20			10		-10		20		-0.5		10									70500		
004 242.0-24	242	243	18	-9000			8		-10		20		-0.5		-5									55500		
004 243.0-24	243	244.8	15	-9000			12		-10		16		-0.5		5									82500		
004 245.0-24	245	246	8	-9000			9		-10		18		-0.5		98									23000		
004 248.0-24	248	249	15	18			9		-10		18		-0.5		22									28500		
004 251.0-25	251	252	2	-9000			-5		-10		19		-0.5		39									17500		
004 253.5-25	253.5	254	-1	-1			-5		-10		23		-0.5		114									91000		
004 256.0-25	256	257	1	-9000			-5		-10		35		-0.5		93									29000		
004 259.0-26	259	260	4	-9000			-5		-10		19		-0.5		75									24000		
004 262.0-26	262	263	1	-9000			5		-10		24		-0.5		117									10900		
004 265.0-26	265	266	5	-9000			-5		-10		28		-0.5		69									17200		
004 270.0-27	270	271	4	-9000			-5		-10		22		-0.5		130									17700		
004 271.0-27	271	272	6	-9000			-5		-10		30		-0.5		125									46000		

		Units	ppb	ppb			ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5							50		
		Method	F614	F614			I104		I104		I104		I104		I104							I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
004 272.0-27	272	273	7	-9000			15		-10		34		-0.5		92									47000		
004 273.0-27	273	274	9	-9000			7		-10		41		-0.5		85									35500		
004 276.0-27	276	277	5	-9000			-5		-10		36		0.6		54									36000		
004 279.0-28	279	280	7	7			8		-10		34		-0.5		104									54000		
004 280.0-28	280	281	5	-9000			5		-10		29		-0.5		118									59000		
004 283.0-28	283	284	5	-9000			7		-10		24		-0.5		85									15500		
004 286.0-28	286	287	14	-9000			6		-10		21		-0.5		21									41000		
004 289.0-29	289	290	10	-9000			-5		-10		19		-0.5		-5									18100		
004 292.0-29	292	293	7	-9000			-5		-10		17		-0.5		-5									22500		
004 295.0-29	295	296	14	12			-5		-10		18		-0.5		-5									36500		
004 298.0-29	298	299	69	62			7		-10		11		-0.5		-5									46500		
004 301.0-30	301	302	49	-9000			16		-10		19		-0.5		11									33500		
004 304.0-30	304	305	46	-9000			21		-10		20		-0.5		-5									35500		
004 307.0-30	307	308	20	18			23		-10		18		-0.5		72									19700		
004 310.0-31	310	311	8	-9000			9		-10		19		-0.5		116									11000		
004 313.0-31	313	314	4	-9000			13		-10		78		-0.5		79									10700		
004 316.0-31	316	317	7	-9000			7		-10		19		-0.5		44									18800		
004 319.0-32	319	320	26	-9000			21		-10		19		-0.5		51									28000		
004 322.0-32	322	323	17	19			11		-10		19		-0.5		46									22000		
004 325.0-32	325	326	10	-9000			-5		-10		19		-0.5		31									13900		
004 328.0-32	328	329	6	-9000			-5		-10		21		0.6		6									5770		
004 331.0-33	331	332	9	-9000			13		-10		31		0.7		88									10400		
004 334.0-33	334	335	10	-9000			8		-10		25		-0.5		52									14500		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5									50		
		Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
)04 337.0-33	337	338	10	-9000			-5		-10		18		-0.5		-5									7190		

ASSAYS

Project: Cape Sorell **Prospect:** North Butler **Exploration Licence:** EL10/97 **Hole Number:** NB005

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5									50		
		Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30671	25	26	11	-9000			61		24		98		-0.5		29									3210		
30672	28	29	1	-9000			50		18		57		-0.5		20									2260		
30673	37	38	17	15			26		-10		37		-0.5		21									620		
30674	39	40	20	-9000			6		-10		21		-0.5		32									8210		
30675	41	42	3	-9000			135		18		57		-0.5		31									1420		
30676	43	44	-1	-9000			80		22		92		-0.5		33									1240		
30677	45	46	10	-9000			5		12		33		-0.5		44									5920		
30678	47	48	4	5			98		12		38		-0.5		24									2140		
30679	49	50	7	-9000			72		20		69		-0.5		31									1270		
30680	52	53	5	-9000			124		21		110		-0.5		33									1230		
30681	55	56	-1	-9000			166		24		120		-0.5		27									2700		
30682	58	59	2	-9000			92		58		462		-0.5		33									3140		
30683	61	62	3	-9000			88		14		159		-0.5		34									855		
30684	64	65	-1	-9000			63		16		95		-0.5		33									1830		
30685	67	68	-1	-9000			84		15		65		-0.5		27									1490		
30686	70	71	-1	-1			162		15		121		-0.5		22									1020		
30687	73	74	1	-9000			92		18		96		-0.5		30									915		
30688	76	77	3	-9000			69		15		101		-0.5		26									700		
30689	79	80	3	1			123		16		56		-0.5		59									3480		

EL10/97

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm												
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30690	83	84	9	-9000			11		-10		12		-0.5		14									17500		
30691	85	86	3	-9000			12		-10		13		-0.5		16									17800		
30692	88	89	1	-9000			14		11		14		-0.5		21									16900		
30693	91	92	2	-9000			11		10		11		-0.5		20									28500		
30694	94	95	5	-9000			15		-10		12		-0.5		21									21000		
30695	97	98	9	-9000			10		-10		13		-0.5		16									19800		
30696	100	101	18	-9000			15		-10		12		-0.5		25									23000		
30697	105	106	19	-9000			7		-10		13		-0.5		-5									9810		
30698	107	108	14	-9000			6		-10		12		-0.5		-5									5180		
30699	109	110	16	-9000			11		-10		13		-0.5		6									9230		
30700	111	112	10	-9000			11		12		11		-0.5		23									23000		
30501	114	115	11	-9000			14		11		14		-0.5		23									18500		
30502	117	118	6	-9000			13		-10		11		-0.5		18									14000		
30503	120	121	12	-9000			8		-10		14		-0.5		12									23500		
30504	123	124	29	25			15		12		14		-0.5		19									20500		
30505	125	126	9	-9000			16		-10		13		-0.5		20									16700		
30506	127	128	14	11			14		-10		22		-0.5		22									18400		
30507	130	132	14	-9000			15		12		15		-0.5		12									18800		
30508	133	134	13	-9000			10		-10		15		-0.5		10									18000		
30509	138	139	28	-9000			13		10		11		-0.5		17									24000		
30510	141	142	54	53			22		19		12		-0.5		27									27000		
30511	143	144	36	-9000			17		15		19		-0.5		23									31000		
30512	145	146	33	33			19		12		14		-0.5		18									37000		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm										ppm		
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30513	148	149	29	-9000			20		15		16		-0.5		24									25500		
30514	151	152	9	-9000			-5		-10		14		-0.5		11									13700		
30515	154	155	8	-9000			13		-10		14		-0.5		5									15600		
30516	157	158	8	-9000			20		13		14		-0.5		15									17000		
30517	159	160	8	-9000			6		-10		10		-0.5		32									15400		
30518	161	162	5	-9000			6		-10		47		-0.5		6									18600		
30519	164	165	5	-9000			8		12		15		-0.5		17									17800		
30520	167	168	5	-9000			-5		-10		12		-0.5		19									12200		
30521	170	171	7	-9000			7		12		18		-0.5		26									14200		
30522	173	174	9	-9000			78		15		15		-0.5		26									33500		
30523	174	175	15	15			11		16		27		-0.5		21									31500		
30524	175	176	4	-9000			12		14		9		-0.5		24									22000		
30525	176	177	7	-9000			9		14		11		-0.5		19									38500		
30526	178	179	3	-9000			-5		-10		57		-0.5		21									20500		
30527	180	181	5	3			7		-10		56		-0.5		22									25500		
30528	182	183	1	-9000			11		-10		52		-0.5		25									28500		
30529	184.1	185	-1	-9000			-5		-10		34		-0.5		18									7230		
30530	186	187	2	-9000			-5		-10		11		-0.5		26									7230		
30531	188	189	2	-9000			-5		10		17		-0.5		26									37500		
30532	190	191	5	2			-5		-10		19		-0.5		20									27500		
30533	192	193	1	-9000			-5		11		31		-0.5		34									18900		
30534	194	195	2	-9000			-5		12		23		-0.5		25									3660		
30535	196	197	2	-9000			-5		-10		20		-0.5		17									1860		

67213

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm										ppm		
	Detection Limit		1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30536	199	200	7	-9000			17		-10		78		-0.5		35									39000		
30537	202	202.9	-1	2			17		-10		91		-0.5		37									36000		
30538	205	206.5	1	-9000			-5		-10		32		-0.5		24									33500		
30539	208	209	1	-9000			-5		-10		35		-0.5		24									15200		
30540	211	212	6	-9000			7		-10		42		-0.5		44									38500		
30541	214	215	6	-9000			7		-10		50		-0.5		34									31000		
30542	217	218	5	-9000			-5		-10		61		-0.5		23									2280		
30543	220	221	1	-9000			8		-10		49		-0.5		19									1740		
30544	223	224	2	-1			-5		-10		82		-0.5		32									6540		
30545	226	227	2	-9000			-5		-10		47		-0.5		24									3660		
30546	229	230	4	-9000			-5		-10		79		-0.5		31									4820		
30547	232	233	2	3			11		-10		50		-0.5		16									1240		
30548	235	236	1	-9000			8		-10		57		-0.5		14									1050		
30549	237	238	2	-9000			6		-10		65		-0.5		24									27500		
30550	241	242	6	-9000			13		-10		64		-0.5		27									31000		
30701	244	245	6	-9000			13		-10		64		-0.5		27									31000		
30702	247	248	7	-9000			17		-10		82		-0.5		34									38000		
30703	250	251	3	-9000			-5		-10		56		-0.5		36									22000		
30704	253	254	4	-9000			7		-10		53		-0.5		33									25000		
30705	256	257	2	-9000			29		-10		20		-0.5		35									16300		
30706	259	260	2	-9000			12		-10		29		-0.5		31									22000		
30707	262	263	5	-9000			8		-10		25		-0.5		34									23000		
30708	265	266	5	-9000			11		-10		37		-0.5		49									29000		

	Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
	Detection Limit	1	1			5		10		5		0.5		5									50		
	Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30709	268	269	4	-9000			21		-10		19		-0.5		50									17900		
30710	269	270	4	-9000			19		-10		15		-0.5		49									18200		
30711	272	273	1	-9000			6		-10		41		-0.5		27									14000		
30712	275	276	10	11			10		-10		47		-0.5		21									26500		
30713	278	279	8	-9000			11		-10		52		-0.5		21									27500		
30714	281	282	7	-9000			9		-10		56		-0.5		28									30000		
30715	284	285	3	-9000			8		-10		70		-0.5		23									35000		
30716	287	288	6	-9000			28		10		36		-0.5		25									38500		
30717	289	290	3	-9000			16		-10		46		-0.5		36									25500		
30718	290	291	4	-9000			10		-10		46		1		33									28500		
30719	291	292.3	5	-9000			61		-10		55		-0.5		41									45000		
30720	294	295	4	-9000			20		-10		46		-0.5		32									31000		
30721	296	297	2	3			26		10		58		-0.5		30									44500		
30722	299	300	3	-9000			-5		14		23		-0.5		29									14200		
30723	302	303	4	-9000			-5		12		24		-0.5		22									35000		
30724	305	306	5	-9000			-5		-10		23		-0.5		22									27500		
30725	308	309	8	-9000			21		-10		39		-0.5		10									24500		
30726	311	312	4	-9000			17		-10		23		-0.5		13									26500		
30727	314	315	3	-9000			18		-10		35		-0.5		22									27000		
30728	317	318	4	2			15		-10		93		-0.5		35									26000		
30729	320	321	4	-9000			-5		-10		31		-0.5		8									6260		
30730	323	324	6	-9000			-5		16		20		-0.5		32									3700		
30731	326	327	4	-9000			-5		11		16		-0.5		23									2990		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm												
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn	
30732	329	330	1	-9000			-5		12		17		-0.5		31									2230			

ASSAYS

Project: Cape Sorell **Prospect:** North Butler **Exploration Licence:** EL10/97 **Hole Number:** NB006

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm										ppm		
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
30733	11	12.9	10	-9000			24		12		19		-0.5		34									60		
30734	16.4	18.2	9	-9000			-5		14		15		-0.5		28									75		
30735	29	30.8	14	-9000			17		14		27		-0.5		20									655		
30736	33	35	12	-9000			11		12		21		-0.5		13									1770		
30737	36	38	10	10			10		-10		29		-0.5		19									13600		
30738	44	45	12	-9000			9		-10		21		-0.5		16									28500		
30739	53	54	17	-9000			-5		13		15		-0.5		34									24500		
30740	62	63	21	-9000			18		14		22		-0.5		24									66500		
30741	64	65	12	-9000			22		-10		17		-0.5		22									41000		
30742	66	67	12	-9000			11		-10		14		-0.5		25									21000		
30743	70	71	28	26			21		19		24		-0.5		32									41500		
30744	72	73	12	-9000			11		-10		22		-0.5		15									20500		
30745	75	76	9	9			12		10		33		-0.5		19									25000		
30746	78	79	9	-9000			13		15		22		-0.5		25									21000		
30747	80	81	3	-9000			-5		-10		17		-0.5		19									28500		
30748	81	82	7	-9000			-5		-10		26		-0.5		17									22000		
30749	82	83	3	-9000			-5		-10		20		-0.5		21									23500		
30750	84	85	6	-9000			10		-10		20		-0.5		24									20000		
31001	86	87	5	-9000			12		-10		22		-0.5		23									24500		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm												
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
31002	87	88	1	-9000			-5		-10		23		-0.5		28									30000		
31003	88	89	2	-9000			-5		-10		54		-0.5		24									31000		
31004	90	91	8	-9000			8		-10		30		-0.5		28									24500		
31005	92	93	7	-9000			9		-10		27		-0.5		28									32500		
31006	94	95	6	-9000			7		11		16		-0.5		28									29000		
31007	96	97	4	-9000			6		-10		21		1		31									21500		
31008	98	99	11	-9000			16		-10		15		-0.5		36									25500		
31009	100	101	22	20			29		19		25		-0.5		45									25000		
31010	102	103	9	9			21		11		17		-0.5		29									19100		
31011	104	105	8	-9000			28		17		17		-0.5		39									28000		
31012	106	107	8	7			19		14		18		0.8		44									19900		
31014	110	111	3	-9000			60		13		27		-0.5		40									15400		
31015	112	113	7	-9000			17		11		14		-0.5		34									15200		
31016	113	114	9	-9000			21		-10		21		-0.5		29									17100		
31017	114	115	6	-9000			14		11		26		-0.5		33									45000		
31018	115	116	3	-9000			10		-10		23		-0.5		37									19900		
31019	117	118	3	5			-5		-10		24		0.8		46									9410		
31020	119	120	3	-9000			-5		-10		32		-0.5		38									14700		
31021	121	122	3	-9000			6		-10		34		-0.5		40									19300		
31022	122	123	6	-9000			22		-10		29		-0.5		24									18600		
31023	125	126	7	-9000			8		-10		33		-0.5		40									20500		
31024	127	128	2	-9000			8		-10		17		-0.5		28									11500		
31025	130	131	3	-9000			8		-10		24		-0.5		25									13700		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm												
		Detection Limit	1	1			5		10		5		0.5		5										50		
		Method	F614	F614			I104		I104		I104		I104		I104										I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
31026	133	134	2	-9000			38		-10		21		-0.5		11									10400		
31027	136	137	1	-9000			-5		-10		30		-0.5		15									14500		
31028	139	140	1	-9000			37		-10		60		-0.5		14									7990		
31029	142	143	-1	-9000			25		-10		22		-0.5		16									9540		
31030	145	146	4	3			12		-10		20		-0.5		22									18300		
31031	148	149	27	27			18		15		21		-0.5		44									49500		
31032	151	152	28	27			21		15		24		-0.5		44									32000		
31033	154	155	6	-9000			5		11		38		-0.5		33									23000		
31034	155	156	3	-9000			-5		-10		21		-0.5		30									23000		
31035	157	158	3	-9000			-5		-10		51		-0.5		35									33000		
31036	160	161	3	-9000			-5		-10		31		-0.5		21									36500		
31037	163	164	2	3			-5		-10		26		-0.5		21									22500		
31038	166	167	2	-9000			15		-10		32		-0.5		25									16100		
31039	169	170	4	-9000			11		-10		22		-0.5		23									30500		
31040	171	172	-1	-9000			6		-10		36		-0.5		31									22500		
31041	174	175	-1	-9000			-5		-10		24		-0.5		18									18400		
31042	177	178	1	-9000			-5		-10		26		-0.5		17									21500		
31043	180	181	-1	-9000			17		-10		42		-0.5		25									24000		
31044	183	184	1	-9000			8		-10		30		-0.5		19									18000		
31045	186	187	-1	-9000			15		-10		25		-0.5		17									13000		
31046	189	190	5	-9000			10		-10		28		-0.5		28									19400		
31047	192	193	5	-9000			8		-10		36		-0.5		22									25000		
31048	195	196	1	-1			-5		-10		24		-0.5		23									22500		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5									50		
		Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
31049	198	199	6	-9000			16		15		22		-0.5		33									23000		
31050	200	201	19	19			21		12		9		-0.5		42									32000		
31051	202	203	12	-9000			24		14		14		-0.5		27									27500		
31052	205	206	21	-9000			28		16		21		-0.5		40									32000		
31053	208	209	2	-9000			16		-10		24		-0.5		24									35500		
31054	210	211	5	-9000			35		-10		20		-0.5		30									30500		
31055	212	213	3	5			13		-10		26		-0.5		21									29000		
31056	214	215	6	-9000			17		-10		24		-0.5		34									40000		
31057	216	217	42	43			23		15		22		-0.5		39									33000		
31058	219	220	9	-9000			9		12		23		-0.5		19									23000		
31059	222	223	7	-9000			12		13		20		-0.5		38									25000		
31060	225	226	82	86			18		17		20		-0.5		29									27000		
31061	228	229	11	-9000			12		12		26		-0.5		18									30000		
31062	231	232	17	-9000			16		-10		21		-0.5		40									29000		
31063	234	235	4	-9000			11		-10		24		-0.5		10									19000		
31064	237	238	31	27			11		-10		20		-0.5		9									22000		
31065	241	242	35	-9000			20		17		15		-0.5		34									28500		
31066	243	244	83	76			25		13		14		-0.5		34									31000		
31067	245	246	58	-9000			15		-10		13		-0.5		24									30500		
31068	248	249	51	-9000			15		-10		17		-0.5		25									33000		
31069	250	251	79	-9000			32		12		12		-0.5		29									30000		
31070	253	254	52	-9000			26		11		13		-0.5		26									37500		
31071	256	257	7	-9000			11		-10		20		-0.5		16									21500		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5									50		
		Method	F614	F614			I104		I104		I104		I104		I104									I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
31072	259	260	7	-9000			14		-10		17		-0.5		10									21000		
31073	262	263	11	-9000			12		-10		24		-0.5		15									40000		
31074	265	266	9	-9000			12		-10		14		-0.5		11									19600		
31075	268	269	11	-9000			11		-10		11		-0.5		16									18300		
31076	271	272	7	9			7		-10		15		-0.5		10									22500		
31077	274	275	3	-9000			-5		-10		20		-0.5		13									14500		
31078	277.8	278	3	-9000			-5		-10		15		-0.5		9									17900		
31079	280	281	5	-9000			-5		-10		15		-0.5		6									19100		
31080	283	284	12	9			8		-10		17		-0.5		6									41000		
31081	286	287	11	-9000			5		-10		18		-0.5		15									48500		
31082	289	290	20	24			11		-10		17		-0.5		10									21000		
31083	295	296	3	-9000			-5		-10		14		-0.5		22									15600		
31084	297	298	7	-9000			9		-10		18		-0.5		23									24500		
31085	299	300	5	-9000			-5		-10		15		-0.5		14									20500		
31086	300	301	4	4			-5		-10		17		-0.5		17									29500		
31087	303	304	6	5			-5		-10		11		-0.5		16									25500		
31088	304	305	5	-9000			-5		-10		13		-0.5		15									30000		
31089	306	307	40	-9000			9		12		13		-0.5		37									39000		
31090	308	309	26	-9000			6		-10		19		-0.5		14									55500		
31091	309	310	40	-9000			7		14		15		-0.5		26									43500		
31092	310	311	47	-9000			12		19		15		-0.5		28									47500		
31093	311	312	32	-9000			54		10		19		-0.5		28									46000		
31094	312	313	55	-9000			12		12		13		-0.5		28									46000		

		Units	ppb	ppb			ppm		ppm		ppm		ppm		ppm													ppm		
		Detection Limit	1	1			5		10		5		0.5		5													50		
		Method	F614	F614			I104		I104		I104		I104		I104													I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
31095	313	314	138	141			22		-10		15		-0.5		27									51500		
31096	314	315.2	1	5			-5		-10		14		-0.5		7									3810		
31097	315.2	317	73	-9000			17		13		21		-0.5		50									65500		
31098	317	318	55	-9000			13		12		16		-0.5		49									53000		
31099	318	319	24	-9000			15		-10		20		-0.5		28									55500		
31100	319	320.5	62	-9000			13		12		17		-0.5		51									71500		
31101	321	322	131	130			19		14		14		-0.5		40									46500		
31102	323	324	107	91			18		13		17		-0.5		32									39000		
31103	328	329	21	-9000			8		-10		15		-0.5		27									35000		
31104	329	330	2	-9000			-5		-10		10		-0.5		28									16000		
31105	330	331	9	8			5		-10		13		-0.5		29									30500		
31106	331	332	5	-9000			-5		-10		13		-0.5		22									24500		
31107	334	335	4	5			6		12		17		-0.5		17									35000		
31108	337	338	8	-9000			-5		13		17		-0.5		11									44500		
31109	338	339	8	-9000			-5		10		20		-0.5		11									77500		
31110	339	340	9	-9000			9		-10		17		-0.5		24									80000		
31111	342	343	14	-9000			10		11		20		-0.5		22									47000		
31112	345	346	22	21			8		-10		20		-0.5		27									46500		
31113	348	349	17	-9000			8		-10		20		-0.5		28									21500		
31114	350	360	2	-9000			11		-10		20		-0.5		31									7800		
31115	352	353	1	-9000			-5		-10		15		-0.5		38									5290		
31116	354	355	5	-9000			8		-10		25		-0.5		23									10300		
31117	357	358	6	-9000			-5		-10		20		-0.5		31									245		

		Units	ppb	ppb			ppm		ppm		ppm		ppm									ppm		
		Detection Limit	1	1			5		10		5		0.5		5							50		
		Method	F614	F614			I104		I104		I104		I104		I104							I104		
Sample Number	From	To	Au	Au(R1)	Au(R2)	Au(R3)	Cu	Cu(R1)	Pb	Pb(R1)	Zn	Zn(R1)	Ag	Ag(R1)	As	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo	S	S 1	Mn
31118	360	361	4	-9000			9		-10		55		-0.5		23									1410		
31119	363	364	1	-9000			-5		64		25		-0.5		36									3050		
31120	364	365	3	2			11		-10		16		-0.5		24									17800		
31121	367	368	2	-9000			8		-10		20		-0.5		16									8140		
31122	370	371	2	-9000			-5		15		30		-0.5		17									7940		
31123	372	373	5	-9000			-5		-10		39		-0.5		13									5350		
31124	374	375	1	-9000			6		-10		23		-0.5		11									6770		
31013	1083	109	6	-9000			67		-10		14		0.5		39									19100		

APPENDIX 8

Assay Results

(Analabs)

677225

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU017285
Your reference : 128517
Project code : Newnham
Date received : 20/12/99
Date reported : 07/01/00

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Batch 1.

NB 001/002

Number of pages of results : 4
Number of Samples : 92
First Sample : 17951
Last Sample : 30142

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 07/01/00
Facsimile / /
Disk Report / /

Preliminary Reports :
31/12/99 Report

Results to:

Results to:

Remarks :

Authorised by .....
On behalf of:

Rob Chapman
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.

677226

ANALABS

Our reference : BU017285
Your reference : 128517
Project code : Newnham
Report date : 07/01/00
Report status : Final
Page : 1 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
17951	163	44	485	<0.5	<5	185
17952	93	29	262	<0.5	<5	110
17953	89	52	207	<0.5	<5	<50
17954	71	22	105	<0.5	<5	55
17955	45	24	206	<0.5	<5	55
17956	181	51	640	<0.5	<5	350
17957	116	21	365	<0.5	<5	<50
17958	97	18	219	<0.5	<5	515
17959	<5	11	44	<0.5	<5	440
17960	11	14	65	0.7	<5	870
17961	130	16	61	<0.5	<5	840
17962	46	16	52	<0.5	<5	4020
17963	42	16	61	<0.5	<5	6760
17964	36	18	95	<0.5	<5	2250
17965	39	18	68	<0.5	<5	2120
17966	41	<10	21	<0.5	22	1.55%
17967	16	10	48	<0.5	23	1.91%
17968	14	<10	27	<0.5	<5	8900
17969	57	11	26	<0.5	<5	1160
17970	92	30	153	<0.5	<5	60
17971	83	31	163	<0.5	<5	<50
17972	30	27	220	<0.5	<5	<50
17973	151	16	129	<0.5	<5	<50
17974	132	19	60	<0.5	<5	<50
17975	84	16	64	<0.5	<5	120
17976	<5	13	61	<0.5	<5	85
17977	82	18	64	<0.5	<5	70
17978	94	14	68	<0.5	<5	365
17979	225	14	63	<0.5	<5	295
17980	46	20	90	<0.5	<5	<50
17981	111	17	90	<0.5	<5	1760
17982	90	19	84	<0.5	<5	1720
17983	106	14	102	<0.5	<5	245
17984	67	14	77	<0.5	<5	170
17985	105	15	84	<0.5	<5	820
17986	74	11	92	<0.5	<5	355
17987	112	15	102	<0.5	<5	335
17988	129	22	94	<0.5	<5	4090
17989	118	20	123	<0.5	<5	1110
17990	82	19	137	<0.5	10	2690
17991	56	12	93	<0.5	7	1520
17992	21	18	56	<0.5	6	1.16%
17993	113	21	110	<0.5	<5	3810
17994	101	23	207	<0.5	<5	3900
17995	211	23	155	<0.5	<5	1180
17996	265	28	98	<0.5	6	2090
17997	154	24	300	<0.5	<5	150
17998	107	24	235	<0.5	<5	105
17999	7	15	31	<0.5	<5	850
18000	103	17	125	<0.5	<5	215
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

NB 001

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

Our reference : BU017285
Your reference : 128517
Project code : Newnham
Report date : 07/01/00
Report status : Final
Page : 2 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30101	47	16	58	0.6	<5	1030
30102	106	23	155	<0.5	<5	810
30103	105	18	83	<0.5	<5	570
30104	<5	<10	16	<0.5	<5	1.27%
30105	<5	<10	13	<0.5	<5	1.77%
30106	<5	<10	15	<0.5	<5	9590
30107	9	<10	19	<0.5	<5	1.17%
30108	75	19	26	<0.5	74	13.2%
30109	<5	<10	7	<0.5	<5	5300
30110	6	<10	11	<0.5	6	7030
30111	29	<10	14	<0.5	6	1.84%
30112	25	<10	13	<0.5	<5	1.97%
30113	36	14	27	<0.5	32	4.95%
30114	47	16	30	<0.5	41	6.10%
30115	68	18	40	<0.5	230	12.3%
30116	<5	<10	9	<0.5	<5	6180
30117	16	<10	14	<0.5	7	1.76%
30118	21	<10	17	<0.5	17	2.95%
30119	27	10	15	<0.5	28	4.30%
30120	54	23	23	<0.5	43	7.85%
30121	319	27	33	<0.5	45	7.70%
30122	34	17	19	<0.5	33	5.60%
30123	116	21	27	<0.5	10	8.10%
30124	73	32	26	<0.5	18	6.90%
30125	62	28	53	<0.5	7	6.80%
30126	62	25	37	<0.5	<5	6.35%
30127	71	20	33	<0.5	<5	5.50%
30128	7	<10	<5	<0.5	55	5760
30129	<5	<10	<5	<0.5	25	3950
30130	<5	<10	<5	<0.5	21	4550
30131	6	<10	<5	<0.5	15	6830
30132	7	<10	<5	<0.5	19	4510
30133	<5	<10	<5	<0.5	18	3840
30134	<5	<10	<5	<0.5	24	4230
30135	<5	<10	<5	<0.5	9	6510
30136	24	18	10	<0.5	9	3.30%
30137	89	56	7	1.8	27	10.3%
30138	108	54	7	1.4	18	15.6%
30139	176	82	13	1.9	22	20.2%
30140	34	17	33	<0.5	<5	4.35%
30141	80	31	11	0.7	7	11.2%
30142	168	62	15	1.8	13	18.2%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

677228

ANALABS

Our reference : BU017285
Your reference : 128517
Project code : Newnham
Report date : 07/01/00
Report status : Final
Page : 3 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
17951	4	--				
17952	<1	--				
17953	2	--				
17954	2	--				
17955	<1	--				
17956	10	6				
17957	2	--				
17958	2	--				
17959	3	--				
17960	<1	1				
17961	<1	--				
17962	<1	--				
17963	<1	--				
17964	<1	--				
17965	<1	--				
17966	13	12				
17967	7	6				
17968	6	--				
17969	<1	--				
17970	1	--				
17971	<1	--				
17972	<1	--				
17973	<1	--				
17974	<1	--				
17975	1	--				
17976	<1	--				
17977	<1	--				
17978	<1	--				
17979	2	3				
17980	<1	--				
17981	4	--				
17982	2	--				
17983	4	--				
17984	3	--				
17985	6	4				
17986	<1	--				
17987	1	--				
17988	3	--				
17989	<1	--				
17990	<1	--				
17991	3	--				
17992	<1	--				
17993	<1	--				
17994	<1	--				
17995	<1	--				
17996	<1	--				
17997	<1	--				
17998	<1	--				
17999	3	--				
18000	<1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

677229

A N A L A B S

Our reference : BU017285
Your reference : 128517
Project code : Newnham
Report date : 07/01/00
Report status : Final
Page : 4 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
30101	1	<1				
30102	<1	<1				
30103	<1	--				
30104	3	--				
30105	2	--				
30106	4	--				
30107	1	--				
30108	163	173				
30109	3	--				
30110	2	2				
30111	23	--				
30112	16	--				
30113	37	--				
30114	38	--				
30115	31	--				
30116	4	--				
30117	45	--				
30118	19	--				
30119	23	--				
30120	29	32				
30121	32	32				
30122	26	--				
30123	69	--				
30124	51	--				
30125	65	--				
30126	65	--				
30127	43	--				
30128	10	--				
30129	13	--				
30130	8	--				
30131	6	--				
30132	5	--				
30133	4	--				
30134	4	6				
30135	4	5				
30136	9	--				
30137	36	--				
30138	37	--				
30139	72	--				
30140	10	--				
30141	19	23				
30142	31	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

677230

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference	:	BU017298
Your reference	:	128519
Project code	:	Newnham
Date received	:	22/12/99
Date reported	:	18/01/00

FAXED
ZEE 27/1

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results	: 6
Number of Samples	: 109
First Sample	: 30143
Last Sample	: 30252

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :

Modem	Y 18/01/00
Facsimile	/ /
Disk Report	/ /

Preliminary Reports :
10/01/00 Report

Results to:

Results to:

Remarks :

Authorised by .....
~~On behalf of~~:

Rob Chapman
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.

677231

ANALABS

Our reference : BU017298
Your reference : 128519
Project code : Newnham
Report date : 18/01/00
Report status : Final
Page : 1 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30143	103	26	17	<0.5	<5	6.35%
30144	71	34	27	<0.5	<5	7.50%
30145	114	52	26	<0.5	<5	>10.0%
30146	266	78	31	<0.5	31	>10.0%
30147	234	52	23	3.0	26	>10.0%
30148	45	26	17	<0.5	<5	6.90%
30149	37	<10	20	<0.5	<5	5.35%
30150	78	38	19	<0.5	12	8.75%
30151	22	<10	20	<0.5	16	2.15%
30152	60	<10	23	<0.5	<5	7.75%
30153	19	<10	17	<0.5	<5	4.35%
30154	8	<10	49	<0.5	<5	2.15%
30155	39	<10	<5	<0.5	<5	3.50%
30156	94	<10	10	<0.5	<5	6.40%
30157	23	<10	11	<0.5	<5	2.90%
30158	24	<10	6	<0.5	17	2.30%
30159	69	<10	30	<0.5	19	2.45%
30160	37	<10	23	<0.5	<5	2.00%
30161	22	<10	30	<0.5	11	1.29%
30162	35	<10	21	<0.5	<5	2.05%
30163	23	<10	15	<0.5	<5	1.77%
30164	8	<10	10	<0.5	<5	7600
30165	20	<10	24	<0.5	<5	1.95%
30166	21	<10	28	<0.5	<5	3.60%
30167	19	<10	22	<0.5	<5	3.95%
30168	23	<10	22	<0.5	<5	5.10%
30169	40	<10	23	<0.5	<5	3.80%
30170	169	<10	35	<0.5	<5	960
30171	12	<10	22	<0.5	<5	1900
30172	11	<10	25	<0.5	<5	2980
30173	130	<10	22	<0.5	<5	5150
30174	13	<10	20	<0.5	<5	3200
30175	<5	<10	35	<0.5	<5	1430
30176	5	<10	42	<0.5	<5	2680
30177	37	<10	58	<0.5	<5	1630
30178	9	<10	23	<0.5	<5	1.37%
30179	15	<10	21	<0.5	<5	2.50%
30180	<5	<10	35	<0.5	<5	3520
30181	7	<10	25	<0.5	<5	1.36%
30182	6	<10	28	<0.5	<5	1.38%
30183	7	<10	18	<0.5	<5	1.31%
30184	15	<10	29	<0.5	11	1.88%
30185	43	<10	41	<0.5	20	5.50%
30186	68	<10	141	<0.5	<5	1260
30187	115	22	108	<0.5	<5	925
30188	75	28	215	<0.5	<5	445
30189	110	26	149	<0.5	<5	415
30190	13	28	300	<0.5	<5	215
30191	79	24	301	<0.5	<5	690
30192	12	<10	226	<0.5	<5	180
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50
Upper Method						I105

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

ANALABS

Our reference : BU017298
Your reference : **128519**
Project code : Newnham
Report date : 18/01/00
Report status : Final
Page : 2 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30193	350	<10	185	<0.5	<5	4810
30194	269	20	268	<0.5	<5	2510
30195	51	<10	185	<0.5	<5	315
30196	103	22	122	<0.5	<5	755
30197	103	28	144	<0.5	<5	3190
30198	413	20	120	<0.5	<5	3220
30199	112	<10	86	<0.5	<5	1140
30200	149	<10	97	<0.5	<5	2290
30201	59	22	90	<0.5	<5	1910
30202	162	<10	89	<0.5	<5	2210
30203	122	<10	95	<0.5	<5	1340
30204	129	<10	135	<0.5	<5	575
30205	61	<10	119	<0.5	<5	1580
30206	103	<10	94	<0.5	<5	1900
30207	120	<10	91	<0.5	<5	1280
30208	145	<10	75	<0.5	<5	1190
30209	83	<10	64	<0.5	<5	5530
30210	174	<10	67	<0.5	<5	6740
30211	131	<10	76	<0.5	<5	4120
30212	100	<10	50	<0.5	<5	5210
30213	32	<10	60	<0.5	<5	530
30214	78	<10	82	<0.5	<5	525
30215	32	<10	45	<0.5	<5	1550
30216	<5	<10	18	<0.5	<5	1.08%
30217	11	<10	18	<0.5	<5	2.85%
30218	<5	<10	22	<0.5	<5	1.02%
30219	31	<10	32	<0.5	17	3.35%
30220	21	<10	26	<0.5	<5	2.50%
30221	16	<10	18	<0.5	<5	2.05%
30222	13	<10	19	<0.5	17	2.25%
30223	7	<10	13	<0.5	22	8960
30224	59	<10	27	<0.5	<5	4.45%
30225	103	<10	24	<0.5	<5	7.40%
30226	14	<10	18	<0.5	12	1.21%
30227	16	<10	14	<0.5	<5	3.45%
30228	51	<10	28	<0.5	20	6.60%
30229	19	<10	26	<0.5	<5	2.70%
30230	41	<10	31	<0.5	14	5.00%
30231	55	<10	26	<0.5	<5	6.20%
30232	16	<10	16	<0.5	<5	2.15%
30234	155	36	20	3.0	29	>10.0%
30235	81	22	17	<0.5	<5	>10.0%
30236	46	<10	56	<0.5	<5	7.95%
30237	180	42	21	4.0	30	>10.0%
30238	73	<10	17	<0.5	16	8.75%
30239	45	<10	21	<0.5	<5	6.65%
30240	174	40	20	<0.5	27	>10.0%
30241	47	<10	23	<0.5	10	5.55%
30242	69	<10	19	<0.5	<5	8.95%
30243	29	<10	15	<0.5	<5	5.20%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50
Upper Method						I105

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

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ANALABS

Our reference : BU017298
Your reference : **128519**
Project code : Newnham
Report date : 18/01/00
Report status : Final
Page : 3 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30244	29	<10	16	<0.5	<5	6.80%
30245	18	<10	18	<0.5	<5	6.30%
30246	20	<10	25	<0.5	<5	1.50%
30247	<5	<10	19	<0.5	<5	9820
30248	23	<10	<5	<0.5	<5	4.40%
30249	81	<10	<5	<0.5	<5	>10.0%
30250	31	<10	6	<0.5	<5	3.20%
30251	44	<10	35	<0.5	13	2.95%
30252	17	<10	9	<0.5	<5	1.94%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50
Upper Method						I105

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

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ANALABS

Our reference : BU017298
Your reference : 128519
Project code : Newnham
Report date : 18/01/00
Report status : Final
Page : 4 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30143	12	--	N.A.			
30144	18	--	N.A.			
30145	65	--	12.390			
30146	91	--	18.540			
30147	118	124	18.120			
30148	80	--	N.A.			
30149	21	--	N.A.			
30150	32	25	N.A.			
30151	7	--	N.A.			
30152	22	28	N.A.			
30153	7	--	N.A.			
30154	4	--	N.A.			
30155	4	--	N.A.			
30156	8	--	N.A.			
30157	10	--	N.A.			
30158	14	--	N.A.			
30159	21	--	N.A.			
30160	30	34	N.A.			
30161	11	--	N.A.			
30162	27	--	N.A.			
30163	12	12	N.A.			
30164	16	--	N.A.			
30165	21	--	N.A.			
30166	11	--	N.A.			
30167	68	57	N.A.			
30168	46	--	N.A.			
30169	20	--	N.A.			
30170	1	--	N.A.			
30171	4	--	N.A.			
30172	3	--	N.A.			
30173	6	--	N.A.			
30174	5	--	N.A.			
30175	19	--	N.A.			
30176	7	--	N.A.			
30177	2	3	N.A.			
30178	11	--	N.A.			
30179	18	--	N.A.			
30180	3	--	N.A.			
30181	4	--	N.A.			
30182	5	--	N.A.			
30183	13	--	N.A.			
30184	28	--	N.A.			
30185	69	68	N.A.			
30186	5	--	N.A.			
30187	3	--	N.A.			
30188	2	--	N.A.			
30189	6	--	N.A.			
30190	4	--	N.A.			
30191	3	--	N.A.			
30192	1	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

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ANALABS

Our reference : BU017298
Your reference : **128519**
Project code : Newnham
Report date : 18/01/00
Report status : Final
Page : 5 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30193	2	--	N.A.			
30194	<1	--	N.A.			
30195	2	--	N.A.			
30196	1	1	N.A.			
30197	3	--	N.A.			
30198	4	--	N.A.			
30199	3	4	N.A.			
30200	5	--	N.A.			
30201	2	--	N.A.			
30202	<1	<1	N.A.			
30203	3	2	N.A.			
30204	4	--	N.A.			
30205	<1	--	N.A.			
30206	5	--	N.A.			
30207	1	--	N.A.			
30208	<1	--	N.A.			
30209	4	--	N.A.			
30210	6	--	N.A.			
30211	2	--	N.A.			
30212	<1	--	N.A.			
30213	3	--	N.A.			
30214	1	--	N.A.			
30215	13	11	N.A.			
30216	6	--	N.A.			
30217	25	24	N.A.			
30218	4	--	N.A.			
30219	18	--	N.A.			
30220	16	12	N.A.			
30221	14	--	N.A.			
30222	7	--	N.A.			
30223	6	--	N.A.			
30224	16	--	N.A.			
30225	33	--	N.A.			
30226	7	--	N.A.			
30227	19	18	N.A.			
30228	59	53	N.A.			
30229	26	--	N.A.			
30230	48	48	N.A.			
30231	61	--	N.A.			
30232	21	--	N.A.			
30234	185	--	15.510			
30235	109	--	15.120			
30236	53	--	N.A.			
30237	176	199	18.760			
30238	83	--	N.A.			
30239	42	--	N.A.			
30240	93	94	13.120			
30241	60	--	N.A.			
30242	86	87	N.A.			
30243	22	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

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ANALABS

Our reference : BU017298
Your reference : **128519**
Project code : Newnham
Report date : 18/01/00
Report status : Final
Page : 6 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30244	13	--	N.A.			
30245	4	--	N.A.			
30246	5	--	N.A.			
30247	<1	--	N.A.			
30248	9	--	N.A.			
30249	14	15	11.490			
30250	14	--	N.A.			
30251	34	--	N.A.			
30252	17	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

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ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU017350
Your reference : **128520**
Project code : Newnham
Date received : 10/01/00
Date reported : 03/02/00

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results : 4
Number of Samples : 83
First Sample : 30253
Last Sample : 30335

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 03/02/00
Facsimile / /
Disk Report / /

Preliminary Reports :
14/01/00 Report
21/01/00 Report

Results to:

Results to:

Remarks :

Authorised by .....
On behalf of:

Rob Chapman
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.

677238

ANALABS

Our reference : BU017350
Your reference : 128520
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 1 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30253	13	<50	45	<5	<10	7220
30254	34	<50	39	<5	11	4.00%
30255	23	<50	37	<5	<10	3.25%
30256	17	<50	34	<5	12	2.90%
30257	36	<50	36	<5	<10	6640
30258	8	<50	35	<5	<10	8640
30259	8	<50	33	<5	<10	1.25%
30260	18	<50	37	<5	<10	2.50%
30261	<5	<50	34	<5	<10	7010
30262	5	<50	32	<5	<10	1.05%
30263	13	<50	34	<5	<10	2.55%
30264	7	<50	38	<5	<10	4.15%
30265	18	<50	34	<5	<10	7.30%
30266	22	<50	37	<5	<10	6.30%
30267	19	<50	34	<5	<10	7.00%
30268	11	<50	31	<5	<10	7.95%
30269	<5	<50	33	<5	<10	3.75%
30270	51	<50	38	<5	455	>10.0%
30271	<5	<50	57	<5	510	>10.0%
30272	6	<50	49	<5	14	6.90%
30273	5	<50	38	<5	<10	2.45%
30274	10	<50	43	<5	<10	2.20%
30275	8	<50	42	<5	<10	1.46%
30276	<5	<50	44	<5	180	3.85%
30277	<5	<50	28	<5	15	9510
30278	<5	<50	40	<5	<10	1.81%
30279	7	<50	42	<5	<10	2.55%
30280	<5	<50	48	<5	<10	3.20%
30281	7	<50	46	<5	<10	3.45%
30282	8	<50	43	<5	<10	3.50%
30283	5	<50	43	<5	<10	2.45%
30284	17	<50	36	<5	<10	1.99%
30285	5	<50	46	<5	<10	1.52%
30286	<5	<50	40	<5	<10	1.04%
30287	6	<50	40	<5	<10	2.65%
30288	<5	<50	40	<5	<10	1.15%
30289	<5	<50	41	<5	<10	1.45%
30290	5	<50	42	<5	<10	2.50%
30291	11	<50	58	<5	<10	3.90%
30292	<5	<50	58	<5	<10	4.35%
30293	8	<50	53	<5	<10	2.50%
30294	11	<50	40	<5	<10	2.85%
30295	<5	<50	61	<5	<10	1.55%
30296	11	<50	70	<5	<10	2.80%
30297	13	<50	51	<5	<10	3.95%
30298	86	<50	42	<5	<10	3.40%
30299	5	<50	59	<5	<10	1.52%
30300	6	<50	113	<5	<10	1.73%
30301	<5	<50	45	<5	<10	3850
30302	<5	<50	45	<5	<10	3350
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	50	5	5	10	10
Upper Method						I105

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

ANALABS

Our reference : BU017350
Your reference : **128520**
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 2 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30303	6	<50	58	<5	<10	1.31%
30304	35	<50	56	<5	<10	3.25%
30305	23	<50	66	<5	<10	1.23%
30306	<5	<50	64	<5	<10	1.05%
30307	6	<50	55	<5	<10	1.19%
30308	10	<50	40	<5	<10	1.53%
30309	15	<50	56	<5	<10	2.55%
30310	10	<50	64	<5	<10	2.60%
30311	9	<50	63	<5	<10	2.45%
30312	8	<50	56	<5	<10	1.75%
30313	9	<50	55	<5	<10	2.00%
30314	33	<50	57	<5	<10	2.50%
30315	21	<50	56	<5	<10	2.50%
30316	89	<50	251	<5	<10	115
30317	56	<50	232	<5	<10	145
30318	81	<50	536	<5	<10	405
30319	139	<50	410	<5	<10	625
30320	46	<50	246	<5	<10	1000
30321	76	<50	139	<5	<10	1110
30322	84	<50	223	<5	<10	605
30323	95	<50	187	<5	<10	245
30324	116	<50	304	<5	<10	1250
30325	95	<50	137	<5	<10	825
30326	76	<50	238	<5	<10	505
30327	28	<50	476	<5	<10	480
30328	13	<50	83	<5	<10	5120
30329	13	<50	100	<5	<10	3.30%
30330	80	<50	349	<5	14	1050
30331	73	<50	92	<5	<10	1160
30332	5	<50	71	<5	<10	5650
30333	<5	<50	48	<5	<10	5640
30334	<5	<50	52	<5	<10	1.80%
30335	<5	<50	65	<5	<10	2910
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	50	5	5	10	10

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

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ANALABS

Our reference : BU017350
Your reference : 128520
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 3 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30253	6	--	N.A.			
30254	46	42	N.A.			
30255	43	--	N.A.			
30256	17	--	N.A.			
30257	14	10	N.A.			
30258	20	--	N.A.			
30259	24	--	N.A.			
30260	29	--	N.A.			
30261	8	--	N.A.			
30262	9	8	N.A.			
30263	10	--	N.A.			
30264	18	14	N.A.			
30265	33	--	N.A.			
30266	24	--	N.A.			
30267	45	48	N.A.			
30268	19	--	N.A.			
30269	16	--	N.A.			
30270	4	5	18.750			
30271	3	--	20.150			
30272	1	--	N.A.			
30273	2	--	N.A.			
30274	1	2	N.A.			
30275	5	--	N.A.			
30276	<1	--	N.A.			
30277	<1	--	N.A.			
30278	5	--	N.A.			
30279	2	--	N.A.			
30280	4	--	N.A.			
30281	5	--	N.A.			
30282	4	--	N.A.			
30283	2	2	N.A.			
30284	7	--	N.A.			
30285	2	--	N.A.			
30286	3	--	N.A.			
30287	4	6	N.A.			
30288	2	--	N.A.			
30289	<1	--	N.A.			
30290	4	--	N.A.			
30291	<1	--	N.A.			
30292	<1	--	N.A.			
30293	6	5	N.A.			
30294	4	--	N.A.			
30295	4	--	N.A.			
30296	3	--	N.A.			
30297	<1	--	N.A.			
30298	6	--	N.A.			
30299	2	--	N.A.			
30300	4	--	N.A.			
30301	1	--	N.A.			
30302	1	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

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A N A L A B S

Our reference : BU017350
Your reference : **128520**
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 4 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30303	3	--	N.A.			
30304	7	--	N.A.			
30305	2	1	N.A.			
30306	5	--	N.A.			
30307	1	--	N.A.			
30308	4	--	N.A.			
30309	<1	--	N.A.			
30310	4	--	N.A.			
30311	3	4	N.A.			
30312	1	2	N.A.			
30313	7	--	N.A.			
30314	2	--	N.A.			
30315	3	--	N.A.			
30316	1	--	N.A.			
30317	<1	--	N.A.			
30318	3	--	N.A.			
30319	1	--	N.A.			
30320	1	--	N.A.			
30321	<1	--	N.A.			
30322	5	--	N.A.			
30323	6	--	N.A.			
30324	<1	--	N.A.			
30325	<1	--	N.A.			
30326	<1	--	N.A.			
30327	<1	--	N.A.			
30328	2	2	N.A.			
30329	<1	--	N.A.			
30330	5	3	N.A.			
30331	1	--	N.A.			
30332	4	--	N.A.			
30333	6	--	N.A.			
30334	6	--	N.A.			
30335	<1	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

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A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU017405
Your reference : **NB003 Core**
Project code : 128523
Date received : 24/01/00
Date reported : 11/02/00

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results : 6
Number of Samples : 120
First Sample : 30551
Last Sample : 30670

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 11/02/00
Facsimile / /
Disk Report / /

Preliminary Reports :
07/02/00 Report

Results to:

Results to:

Remarks :

Authorised by .....
~~On behalf~~ of:

Rob Chapman
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.

677243

A N A L A B S

Our reference : BU017405
Your reference : NB003 Core
Project code : 128523
Report date : 11/02/00
Report status : Final
Page : 1 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30551	98	<20	188	<3	<10	160
30552	83	<20	224	<3	<10	145
30553	76	<20	233	<3	<10	150
30554	409	<20	191	<3	<10	115
30555	526	<20	184	<3	<10	105
30556	352	<20	616	<3	28	115
30557	76	<20	80	<3	10	98
30558	117	<20	77	<3	13	105
30559	39	<20	81	<3	10	200
30560	306	<20	92	<3	<10	205
30561	102	<20	50	<3	13	1070
30562	132	<20	138	<3	11	1420
30563	96	<20	165	<3	15	1480
30564	121	<20	92	<3	15	795
30565	35	<20	66	<3	<10	355
30566	111	<20	49	<3	29	2520
30567	1455	<20	63	<3	77	2650
30568	93	<20	49	<3	41	3530
30569	89	<20	95	<3	<10	230
30570	169	<20	64	<3	<10	575
30571	71	<20	384	<3	16	1570
30572	123	<20	180	<3	17	1650
30573	78	<20	82	<3	16	920
30574	118	<20	72	<3	38	2220
30575	33	<20	47	<3	19	2180
30576	88	<20	60	<3	10	1730
30577	46	<20	91	<3	<10	490
30578	60	<20	138	<3	<10	365
30579	59	<20	91	<3	<10	890
30580	84	<20	96	<3	<10	465
30581	89	<20	31	<3	30	3550
30582	10	<20	6	<3	16	2.50%
30583	<5	<20	11	<3	<10	1.59%
30584	10	<20	8	<3	17	1.31%
30585	9	<20	11	3	<10	7510
30586	64	<20	17	4	84	9.70%
30587	15	<20	9	<3	13	2.80%
30588	<5	<20	12	3	<10	7900
30589	<5	<20	10	<3	<10	3410
30590	9	<20	16	3	<10	5800
30591	6	66	154	<3	16	1.03%
30592	37	22	8	4	29	4.90%
30593	54	24	7	4	39	7.50%
30594	16	20	9	4	22	4.10%
30595	<5	<20	14	3	<10	9020
30596	<5	22	14	<3	<10	8910
30597	<5	22	10	<3	<10	1.04%
30598	<5	22	38	<3	<10	1.22%
30599	<5	24	8	<3	45	1.85%
30600	13	26	10	<3	75	4.70%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	20	5	3	10	10

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

677244

ANALABS

Our reference : BU017405
Your reference : **NB003 Core**
Project code : 128523
Report date : 11/02/00
Report status : Final
Page : 2 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30601	<5	28	19	3	<10	7600
30602	48	36	34	<3	11	7370
30603	23	34	32	<3	13	9410
30604	23	38	<5	3	18	2.80%
30605	146	62	8	5	53	>10.0%
30606	159	78	10	5	51	>10.0%
30607	109	72	10	5	35	>10.0%
30608	53	54	12	4	20	7.25%
30609	92	78	26	6	38	>10.0%
30610	81	64	12	5	38	>10.0%
30611	35	46	8	5	22	7.25%
30612	56	66	9	5	29	7.50%
30613	55	130	22	5	31	7.75%
30614	37	46	9	3	21	6.15%
30615	67	120	20	4	32	>10.0%
30616	10	34	6	3	<10	3.30%
30617	21	34	7	4	14	5.70%
30618	23	38	7	4	21	9.15%
30619	31	40	18	3	16	4300
30620	30	28	14	3	17	1.40%
30621	52	30	16	4	17	3.80%
30622	44	54	11	4	24	4.95%
30623	40	42	7	5	27	6.40%
30624	7	38	<5	5	14	7910
30625	13	30	62	4	15	9490
30626	42	36	9	4	34	2.85%
30627	16	34	<5	5	14	1.10%
30628	12	36	5	5	22	1.23%
30629	23	44	8	5	35	3.05%
30630	<5	24	<5	3	13	4150
30631	29	50	9	5	35	4.25%
30632	35	44	15	5	38	4.90%
30633	19	40	7	5	32	3.80%
30634	22	40	9	5	29	3.10%
30635	26	42	9	5	29	2.75%
30636	19	32	12	6	19	2.55%
30637	10	32	10	4	21	2.60%
30638	<5	26	7	3	14	5020
30639	<5	28	6	3	18	1.61%
30640	12	44	6	5	40	3.60%
30641	10	<20	5	<3	<10	1.49%
30642	10	<20	5	<3	<10	1.59%
30643	14	<20	10	<3	<10	9840
30644	9	<20	12	<3	<10	7310
30645	12	<20	10	<3	<10	8200
30646	24	<20	7	<3	<10	8210
30647	12	<20	5	<3	<10	1.32%
30648	12	<20	11	<3	<10	1.93%
30649	13	<20	9	<3	<10	2.45%
30650	16	<20	10	<3	<10	2.70%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	20	5	3	10	10
Upper Method						I105

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

677245

ANALABS

Our reference : BU017405
Your reference : **NB003 Core**
Project code : 128523
Report date : 11/02/00
Report status : Final
Page : 3 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30651	13	<20	7	<3	<10	2.80%
30652	14	<20	7	<3	12	3.70%
30653	9	<20	8	<3	<10	3.25%
30654	7	<20	6	<3	<10	3.20%
30655	9	<20	5	<3	<10	1.74%
30656	10	<20	8	<3	<10	1.47%
30657	8	<20	19	<3	<10	9600
30658	24	<20	<5	<3	<10	1.69%
30659	29	<20	5	<3	<10	1.69%
30660	11	<20	6	<3	<10	6010
30661	14	<20	11	<3	<10	8410
30662	11	<20	17	4	19	4580
30663	17	<20	31	4	27	3350
30664	12	<20	14	<3	19	2.95%
30665	12	<20	32	<3	12	7640
30666	9	<20	7	<3	15	1.45%
30667	16	<20	9	<3	<10	950
30668	9	<20	11	<3	60	4.25%
30669	9	<20	5	<3	<10	7970
30670	9	<20	<5	<3	28	8160
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	20	5	3	10	10

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

677246

A N A L A B S

Our reference	:	BU017405
Your reference	:	**NB003 Core**
Project code	:	128523
Report date	:	11/02/00
Report status	:	Final
Page	:	4 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30551	9	8	N.A.			
30552	8	--	N.A.			
30553	4	--	N.A.			
30554	3	--	N.A.			
30555	48	33	N.A.			
30556	27	31	N.A.			
30557	3	--	N.A.			
30558	2	--	N.A.			
30559	5	--	N.A.			
30560	6	7	N.A.			
30561	5	--	N.A.			
30562	6	--	N.A.			
30563	9	--	N.A.			
30564	7	--	N.A.			
30565	6	--	N.A.			
30566	8	--	N.A.			
30567	12	--	N.A.			
30568	10	--	N.A.			
30569	6	--	N.A.			
30570	9	--	N.A.			
30571	7	--	N.A.			
30572	6	8	N.A.			
30573	9	--	N.A.			
30574	8	--	N.A.			
30575	17	--	N.A.			
30576	7	--	N.A.			
30577	5	5	N.A.			
30578	6	--	N.A.			
30579	5	--	N.A.			
30580	6	--	N.A.			
30581	8	--	N.A.			
30582	12	13	N.A.			
30583	16	--	N.A.			
30584	12	--	N.A.			
30585	11	10	N.A.			
30586	106	91	9.680			
30587	23	--	N.A.			
30588	9	--	N.A.			
30589	6	--	N.A.			
30590	6	--	N.A.			
30591	4	--	N.A.			
30592	49	--	N.A.			
30593	61	57	7.470			
30594	26	--	N.A.			
30595	7	--	N.A.			
30596	2	--	N.A.			
30597	8	--	N.A.			
30598	11	--	N.A.			
30599	8	--	N.A.			
30600	29	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

677247

ANALABS

Our reference : BU017405
Your reference : NB003 Core
Project code : 128523
Report date : 11/02/00
Report status : Final
Page : 5 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30601	10	8	N.A.			
30602	13	--	N.A.			
30603	12	--	N.A.			
30604	49	--	N.A.			
30605	242	230	16.870			
30606	180	180	16.460			
30607	126	--	16.568			
30608	51	52	6.668			
30609	116	128	12.316			
30610	124	129	13.870			
30611	68	74	6.951			
30612	62	--	6.689			
30613	41	--	7.146			
30614	8	--	5.920			
30615	41	42	11.877			
30616	10	--	N.A.			
30617	9	--	5.700			
30618	4	--	8.622			
30619	31	--	N.A.			
30620	23	--	N.A.			
30621	7	--	N.A.			
30622	8	--	N.A.			
30623	11	12	5.985			
30624	6	--	N.A.			
30625	16	--	N.A.			
30626	23	--	N.A.			
30627	5	--	N.A.			
30628	17	--	N.A.			
30629	24	--	N.A.			
30630	3	--	N.A.			
30631	31	--	N.A.			
30632	58	62	N.A.			
30633	27	--	N.A.			
30634	39	--	N.A.			
30635	26	23	N.A.			
30636	8	--	N.A.			
30637	11	8	N.A.			
30638	3	--	N.A.			
30639	3	--	N.A.			
30640	57	50	N.A.			
30641	1	--	N.A.			
30642	< 1	--	N.A.			
30643	< 1	--	N.A.			
30644	< 1	--	N.A.			
30645	< 1	--	N.A.			
30646	< 1	--	N.A.			
30647	3	--	N.A.			
30648	5	--	N.A.			
30649	2	--	N.A.			
30650	3	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

677248

A N A L A B S

Our reference : BU017405
Your reference : NB003 Core
Project code : 128523
Report date : 11/02/00
Report status : Final
Page : 6 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	S			
30651	3	--	N.A.			
30652	24	29	N.A.			
30653	8	--	N.A.			
30654	11	--	N.A.			
30655	2	--	N.A.			
30656	1	--	N.A.			
30657	4	--	N.A.			
30658	5	--	N.A.			
30659	3	--	N.A.			
30660	2	2	N.A.			
30661	3	--	N.A.			
30662	2	--	N.A.			
30663	2	2	N.A.			
30664	2	--	N.A.			
30665	3	--	N.A.			
30666	<1	<1	N.A.			
30667	<1	--	N.A.			
30668	<1	--	N.A.			
30669	<1	--	N.A.			
30670	<1	--	N.A.			
Method	F614	F614	V821			
Units	ppb	ppb	%			
Detection Limit	1	1	0.005			

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

677249

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU017376
Your reference : 128521
Project code : Newnham
Date received : 17/01/00
Date reported : 03/02/00

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results : 6
Number of Samples : 115
First Sample : 30336
Last Sample : NB004 337.0-338.0

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 03/02/00
Facsimile / /
Disk Report / /

Preliminary Reports :
25/01/00 Report
27/01/00 Report

Results to:

Results to:

Remarks :

Authorised by .....
~~On behalf~~ of:

Rob Chapman
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.

677250

ANALABS

Our reference : BU017376
Your reference : 128521
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 1 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30336	77	14	69	<0.5	32	2040
30337	115	<10	55	0.6	13	545
30338	100	<10	50	<0.5	33	1160
30339	78	<10	59	0.5	24	520
30340	56	<10	62	<0.5	19	435
30341	85	<10	50	0.7	16	1470
30342	156	<10	37	0.7	53	6500
30343	51	<10	80	<0.5	31	1260
30344	127	16	389	<0.5	30	965
30345	105	<10	117	<0.5	9	2740
30346	81	<10	62	<0.5	<5	4360
30347	77	<10	75	<0.5	<5	3900
30348	102	<10	562	<0.5	8	7510
30349	54	<10	65	<0.5	<5	5040
30350	41	<10	69	<0.5	<5	7530
30351	69	<10	69	<0.5	<5	5510
30352	119	<10	135	<0.5	<5	5560
30353	53	<10	93	<0.5	<5	3660
30354	81	<10	80	0.5	<5	7150
30355	127	<10	38	0.7	30	4340
30356	108	<10	37	0.5	26	3050
30357	83	<10	51	0.7	14	5030
30358	66	<10	56	<0.5	24	5380
30359	84	<10	58	0.5	12	3700
30360	60	<10	49	<0.5	22	3670
30361	72	<10	62	<0.5	18	4010
30362	15	<10	71	<0.5	6	5240
30363	7	<10	57	1.0	22	5310
30364	92	<10	69	<0.5	<5	3800
30365	87	<10	65	0.5	6	3240
30366	6	<10	47	0.7	10	5340
30367	36	<10	60	<0.5	<5	5890
30368	5	<10	25	<0.5	<5	4460
30369	9	<10	46	<0.5	<5	3270
30370	28	<10	55	<0.5	<5	2490
30371	46	<10	60	<0.5	<5	4140
30372	26	<10	65	0.6	<5	4630
30373	80	<10	91	<0.5	<5	4710
30374	95	<10	72	<0.5	11	8670
30375	59	<10	60	<0.5	<5	7340
30376	93	<10	53	<0.5	7	7010
30377	54	<10	55	<0.5	9	1.11%
30378	111	<10	58	<0.5	12	6200
30379	77	<10	50	<0.5	<5	4850
30380	28	<10	55	<0.5	<5	4580
30381	59	14	112	<0.5	20	280
30382	61	13	83	0.5	20	635
30383	73	14	311	<0.5	20	1260
30384	55	14	137	<0.5	27	310
30385	79	12	108	<0.5	37	1230
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

677251

ANALABS

Our reference : BU017376
Your reference : 128521
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 2 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30386	107	10	293	<0.5	52	580
30387	23	12	97	<0.5	25	540
30388	15	<10	78	<0.5	16	1030
30389	151	11	76	<0.5	21	1890
30390	48	13	295	<0.5	26	585
30391	185	12	103	<0.5	13	3710
30392	130	12	136	<0.5	31	1200
30393	98	11	242	<0.5	7	1280
30394	42	11	199	<0.5	9	1160
30395	309	12	132	<0.5	14	5330
30396	42	13	116	<0.5	<5	1020
30397	40	<10	49	0.6	71	1.19%
30398	<5	<10	44	<0.5	13	6600
30399	9	<10	37	<0.5	10	2300
30400	7	<10	24	<0.5	15	4800
NB004 226.0-227.0	103	<10	34	<0.5	16	6080
NB004 227.0-228.0	15	<10	27	<0.5	9	7170
NB004 228.0-229.3	20	<10	24	<0.5	74	2.20%
NB004 229.3-231.0	16	<10	30	<0.5	20	1.84%
NB004 231.0-231.7	18	<10	19	<0.5	<5	2.00%
NB004 231.7-233.0	30	<10	18	<0.5	26	3.30%
NB004 233.0-234.0	<5	<10	23	<0.5	78	3.95%
NB004 234.0-235.0	<5	<10	21	0.7	53	7.05%
NB004 235.0-236.7	8	<10	26	<0.5	33	1.71%
NB004 236.7-238.0	12	<10	21	<0.5	<5	3.05%
NB004 238.0-239.0	16	<10	30	0.7	18	2.55%
NB004 239.0-240.0	14	<10	26	<0.5	<5	6.40%
NB004 240.0-241.0	12	<10	26	<0.5	17	9.80%
NB004 241.0-242.0	10	<10	20	<0.5	10	7.05%
NB004 242.0-243.0	8	<10	20	<0.5	<5	5.55%
NB004 243.0-244.8	12	<10	16	<0.5	5	8.25%
NB004 245.0-246.0	9	<10	18	<0.5	98	2.30%
NB004 248.0-249.0	9	<10	18	<0.5	22	2.85%
NB004 251.0-252.0	<5	<10	19	<0.5	39	1.75%
NB004 253.5-254.0	<5	<10	23	<0.5	114	9.10%
NB004 256.0-257.0	<5	<10	35	<0.5	93	2.90%
NB004 259.0-260.0	<5	<10	19	<0.5	75	2.40%
NB004 262.0-263.0	5	<10	24	<0.5	117	1.09%
NB004 265.0-266.0	<5	<10	28	<0.5	69	1.72%
NB004 270.0-271.0	<5	<10	22	<0.5	130	1.77%
NB004 271.0-272.0	<5	<10	30	<0.5	125	4.60%
NB004 272.0-273.0	15	<10	34	<0.5	92	4.70%
NB004 273.0-274.0	7	<10	41	<0.5	85	3.55%
NB004 276.0-277.0	<5	<10	36	0.6	54	3.60%
NB004 279.0-280.0	8	<10	34	<0.5	104	5.40%
NB004 280.0-281.0	5	<10	29	<0.5	118	5.90%
NB004 283.0-284.0	7	<10	24	<0.5	85	1.55%
NB004 286.0-287.0	6	<10	21	<0.5	21	4.10%
NB004 289.0-290.0	<5	<10	19	<0.5	<5	1.81%
NB004 292.0-293.0	<5	<10	17	<0.5	<5	2.25%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

ANALABS

Our reference : BU017376
Your reference : 128521
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 3 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
NB004 295.0-296.0	<5	<10	18	<0.5	<5	3.65%
NB004 298.0-299.0	7	<10	11	<0.5	<5	4.65%
NB004 301.0-302.0	16	<10	19	<0.5	11	3.35%
NB004 304.0-305.0	21	<10	20	<0.5	<5	3.55%
NB004 307.0-308.0	23	<10	18	<0.5	72	1.97%
NB004 310.0-311.0	9	<10	19	<0.5	116	1.10%
NB004 313.0-314.0	13	<10	78	<0.5	79	1.07%
NB004 316.0-317.0	7	<10	19	<0.5	44	1.88%
NB004 319.0-320.0	21	<10	19	<0.5	51	2.80%
NB004 322.0-323.0	11	<10	19	<0.5	46	2.20%
NB004 325.0-326.0	<5	<10	19	<0.5	31	1.39%
NB004 328.0-329.0	<5	<10	21	0.6	6	5770
NB004 331.0-332.0	13	<10	31	0.7	88	1.04%
NB004 334.0-335.0	8	<10	25	<0.5	52	1.45%
NB004 337.0-338.0	<5	<10	18	<0.5	<5	7190
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

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ANALABS

Our reference : BU017376
Your reference : 128521
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 4 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
30336	3	4				
30337	7	--				
30338	2	--				
30339	3	--				
30340	5	--				
30341	3	--				
30342	15	14				
30343	2	--				
30344	9	--				
30345	3	4				
30346	1	--				
30347	7	--				
30348	4	--				
30349	5	6				
30350	4	--				
30351	2	--				
30352	4	--				
30353	4	--				
30354	5	--				
30355	5	--				
30356	5	--				
30357	3	3				
30358	4	--				
30359	<1	--				
30360	3	--				
30361	2	--				
30362	<1	--				
30363	1	--				
30364	<1	--				
30365	<1	--				
30366	3	--				
30367	<1	--				
30368	<1	<1				
30369	<1	--				
30370	<1	<1				
30371	<1	--				
30372	6	5				
30373	2	--				
30374	7	--				
30375	2	--				
30376	3	--				
30377	13	17				
30378	7	6				
30379	7	--				
30380	6	--				
30381	<1	--				
30382	<1	<1				
30383	2	--				
30384	1	--				
30385	<1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

ANALABS

Our reference : BU017376
Your reference : 128521
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 5 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
30386	2	--				
30387	<1	--				
30388	3	--				
30389	1	--				
30390	4	--				
30391	<1	--				
30392	1	--				
30393	2	--				
30394	6	4				
30395	224	222				
30396	4	2				
30397	9	--				
30398	2	--				
30399	2	--				
30400	3	--				
NB004 226.0-227.0	4	--				
NB004 227.0-228.0	3	--				
NB004 228.0-229.3	17	--				
NB004 229.3-231.0	13	--				
NB004 231.0-231.7	13	--				
NB004 231.7-233.0	32	34				
NB004 233.0-234.0	10	--				
NB004 234.0-235.0	5	4				
NB004 235.0-236.7	11	--				
NB004 236.7-238.0	17	--				
NB004 238.0-239.0	14	--				
NB004 239.0-240.0	18	--				
NB004 240.0-241.0	15	--				
NB004 241.0-242.0	16	20				
NB004 242.0-243.0	18	--				
NB004 243.0-244.8	15	--				
NB004 245.0-246.0	8	--				
NB004 248.0-249.0	15	18				
NB004 251.0-252.0	2	--				
NB004 253.5-254.0	<1	<1				
NB004 256.0-257.0	1	--				
NB004 259.0-260.0	4	--				
NB004 262.0-263.0	1	--				
NB004 265.0-266.0	5	--				
NB004 270.0-271.0	4	--				
NB004 271.0-272.0	6	--				
NB004 272.0-273.0	7	--				
NB004 273.0-274.0	9	--				
NB004 276.0-277.0	5	--				
NB004 279.0-280.0	7	7				
NB004 280.0-281.0	5	--				
NB004 283.0-284.0	5	--				
NB004 286.0-287.0	14	--				
NB004 289.0-290.0	10	--				
NB004 292.0-293.0	7	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

ANALABS

Our reference : BU017376
Your reference : 128521
Project code : Newnham
Report date : 03/02/00
Report status : Final
Page : 6 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
NB004 295.0-296.0	14	12				
NB004 298.0-299.0	69	62				
NB004 301.0-302.0	49	--				
NB004 304.0-305.0	46	--				
NB004 307.0-308.0	20	18				
NB004 310.0-311.0	8	--				
NB004 313.0-314.0	4	--				
NB004 316.0-317.0	7	--				
NB004 319.0-320.0	26	--				
NB004 322.0-323.0	17	19				
NB004 325.0-326.0	10	--				
NB004 328.0-329.0	6	--				
NB004 331.0-332.0	9	--				
NB004 334.0-335.0	10	--				
NB004 337.0-338.0	10	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

677250

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU017442
Your reference : **128524**
Project code : Newnham
Date received : 31/01/00
Date reported : 21/02/00

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results : 2
Number of Samples : 32
First Sample : 30501
Last Sample : 30700

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 21/02/00
Facsimile / /
Disk Report / /

Preliminary Reports :
10/02/00 Report

Results to:

Results to:

Remarks :

Authorised by .....
~~On behalf~~ of:

Rob Chapman
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.

677257

ANALABS

Our reference : BU017442
Your reference : **128524**
Project code : Newnham
Report date : 21/02/00
Report status : Final
Page : 1 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30501	14	11	14	<0.5	23	1.85%
30502	13	<10	11	<0.5	18	1.40%
30671	61	24	98	<0.5	29	3210
30672	50	18	57	<0.5	20	2260
30673	26	<10	37	<0.5	21	620
30674	6	<10	21	<0.5	32	8210
30675	135	18	57	<0.5	31	1420
30676	80	22	92	<0.5	33	1240
30677	5	12	33	<0.5	44	5920
30678	98	12	38	<0.5	24	2140
30679	72	20	69	<0.5	31	1270
30680	124	21	110	<0.5	33	1230
30681	166	24	120	<0.5	27	2700
30682	92	58	462	<0.5	33	3140
30683	88	14	159	<0.5	34	855
30684	63	16	95	<0.5	33	1830
30685	84	15	65	<0.5	27	1490
30686	162	15	121	<0.5	22	1020
30687	92	18	96	<0.5	30	915
30688	69	15	101	<0.5	26	700
30689	123	16	56	<0.5	59	3480
30690	11	<10	12	<0.5	14	1.75%
30691	12	<10	13	<0.5	16	1.78%
30692	14	11	14	<0.5	21	1.69%
30693	11	10	11	<0.5	20	2.85%
30694	15	<10	12	<0.5	21	2.10%
30695	10	<10	13	<0.5	16	1.98%
30696	15	<10	12	<0.5	25	2.30%
30697	7	<10	13	<0.5	<5	9810
30698	6	<10	12	<0.5	<5	5180
30699	11	<10	13	<0.5	6	9230
30700	11	12	11	<0.5	23	2.30%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

677258

ANALABS

Our reference : BU017442
Your reference : 128524
Project code : Newnham
Report date : 21/02/00
Report status : Final
Page : 2 of 2

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
30501	11	--				
30502	6	--				
30671	11	--				
30672	1	--				
30673	17	15				
30674	20	--				
30675	3	--				
30676	<1	--				
30677	10	--				
30678	4	5				
30679	7	--				
30680	5	--				
30681	<1	--				
30682	2	--				
30683	3	--				
30684	<1	--				
30685	<1	--				
30686	<1	<1				
30687	1	--				
30688	3	--				
30689	3	1				
30690	9	--				
30691	3	--				
30692	1	--				
30693	2	--				
30694	5	--				
30695	9	--				
30696	18	--				
30697	19	--				
30698	14	--				
30699	16	--				
30700	10	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

677259

ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU017454
Your reference : **128526**
Project code : Lindsay Newnham samples
Date received : 01/02/00
Date reported : 21/02/00

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results : 6
Number of Samples : 118
First Sample : 30503
Last Sample : 31020

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 21/02/00
Facsimile / /
Disk Report / /

Preliminary Reports :
14/02/00 Report

Results to:

Results to:

Remarks :

Authorised by .....
~~On behalf of:~~

Rob Chapman
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.

677260

ANALABS

Our reference : BU017454
Your reference : **128526**
Project code : Lindsay Newnham samples
Report date : 21/02/00
Report status : Final
Page : 1 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St. Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30503	8	<10	14	<0.5	12	2.35%
30504	15	12	14	<0.5	19	2.05%
30505	16	<10	13	<0.5	20	1.67%
30506	14	<10	22	<0.5	22	1.84%
30507	15	12	15	<0.5	12	1.88%
30508	10	<10	15	<0.5	10	1.80%
30509	13	10	11	<0.5	17	2.40%
30510	22	19	12	<0.5	27	2.70%
30511	17	15	19	<0.5	23	3.10%
30512	19	12	14	<0.5	18	3.70%
30513	20	15	16	<0.5	24	2.55%
30514	<5	<10	14	<0.5	11	1.37%
30515	13	<10	14	<0.5	5	1.56%
30516	20	13	14	<0.5	15	1.70%
30517	6	<10	10	<0.5	32	1.54%
30518	6	<10	47	<0.5	6	1.86%
30519	8	12	15	<0.5	17	1.78%
30520	<5	<10	12	<0.5	19	1.22%
30521	7	12	18	<0.5	26	1.42%
30522	78	15	15	<0.5	26	3.35%
30523	11	16	27	<0.5	21	3.15%
30524	12	14	9	<0.5	24	2.20%
30525	9	14	11	<0.5	19	3.85%
30526	<5	<10	57	<0.5	21	2.05%
30527	7	<10	56	<0.5	22	2.55%
30528	11	<10	52	<0.5	25	2.85%
30529	<5	<10	34	<0.5	18	7230
30530	<5	<10	11	<0.5	26	7230
30531	<5	10	17	<0.5	26	3.75%
30532	<5	<10	19	<0.5	20	2.75%
30533	<5	11	31	<0.5	34	1.89%
30534	<5	12	23	<0.5	25	3660
30535	<5	<10	20	<0.5	17	1860
30536	17	<10	78	<0.5	35	3.90%
30537	17	<10	91	<0.5	37	3.60%
30538	<5	<10	32	<0.5	24	3.35%
30539	<5	<10	35	<0.5	24	1.52%
30540	7	<10	42	<0.5	44	3.85%
30541	7	<10	50	<0.5	34	3.10%
30542	<5	<10	61	<0.5	23	2280
30543	8	<10	49	<0.5	19	1740
30544	<5	<10	82	<0.5	32	6540
30545	<5	<10	47	<0.5	24	3660
30546	<5	<10	79	<0.5	31	4820
30547	11	<10	50	<0.5	16	1240
30548	8	<10	57	<0.5	14	1050
30549	6	<10	65	<0.5	24	2.75%
30550	9	<10	78	<0.5	28	3.85%
30701	13	<10	64	<0.5	27	3.10%
30702	17	<10	82	<0.5	34	3.80%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

677261

ANALABS

Our reference : BU017454
Your reference : **128526**
Project code : Lindsay Newnham samples
Report date : 21/02/00
Report status : Final
Page : 2 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
30703	<5	<10	56	<0.5	36	2.20%
30704	7	<10	53	<0.5	33	2.50%
30705	29	<10	20	<0.5	35	1.63%
30706	12	<10	29	<0.5	31	2.20%
30707	8	<10	25	<0.5	34	2.30%
30708	11	<10	37	<0.5	49	2.90%
30709	21	<10	19	<0.5	50	1.79%
30710	19	<10	15	<0.5	49	1.82%
30711	6	<10	41	<0.5	27	1.40%
30712	10	<10	47	<0.5	21	2.65%
30713	11	<10	52	<0.5	21	2.75%
30714	9	<10	56	<0.5	28	3.00%
30715	8	<10	70	<0.5	23	3.50%
30716	28	10	36	<0.5	25	3.85%
30717	16	<10	46	<0.5	36	2.55%
30718	10	<10	46	1.0	33	2.85%
30719	61	<10	55	<0.5	41	4.50%
30720	20	<10	46	<0.5	32	3.10%
30721	26	10	58	<0.5	30	4.45%
30722	<5	14	23	<0.5	29	1.42%
30723	<5	12	24	<0.5	22	3.50%
30724	<5	<10	23	<0.5	22	2.75%
30725	21	<10	39	<0.5	10	2.45%
30726	17	<10	23	<0.5	13	2.65%
30727	18	<10	35	<0.5	22	2.70%
30728	15	<10	93	<0.5	35	2.60%
30729	<5	<10	31	<0.5	8	6260
30730	<5	16	20	<0.5	32	3700
30731	<5	11	16	<0.5	23	2990
30732	<5	12	17	<0.5	31	2230
30733	24	12	19	<0.5	34	60
30734	<5	14	15	<0.5	28	75
30735	17	14	27	<0.5	20	655
30736	11	12	21	<0.5	13	1770
30737	10	<10	29	<0.5	19	1.36%
30738	9	<10	21	<0.5	16	2.85%
30739	<5	13	15	<0.5	34	2.45%
30740	18	14	22	<0.5	24	6.65%
30741	22	<10	17	<0.5	22	4.10%
30742	11	<10	14	<0.5	25	2.10%
30743	21	19	24	<0.5	32	4.15%
30744	11	<10	22	<0.5	15	2.05%
30745	12	10	33	<0.5	19	2.50%
30746	13	15	22	<0.5	25	2.10%
30747	<5	<10	17	<0.5	19	2.85%
30748	<5	<10	26	<0.5	17	2.20%
30749	<5	<10	20	<0.5	21	2.35%
30750	10	<10	20	<0.5	24	2.00%
31001	12	<10	22	<0.5	23	2.45%
31002	<5	<10	23	<0.5	28	3.00%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

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A N A L A B S

Our reference : BU017454
Your reference : **128526**
Project code : Lindsay Newnham samples
Report date : 21/02/00
Report status : Final
Page : 3 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
31003	<5	<10	54	<0.5	24	3.10%
31004	8	<10	30	<0.5	28	2.45%
31005	9	<10	27	<0.5	28	3.25%
31006	7	11	16	<0.5	28	2.90%
31007	6	<10	21	1.0	31	2.15%
31008	16	<10	15	<0.5	36	2.55%
31009	29	19	25	<0.5	45	2.50%
31010	21	11	17	<0.5	29	1.91%
31011	28	17	17	<0.5	39	2.80%
31012	19	14	18	0.8	44	1.99%
31013	67	<10	14	0.5	39	1.91%
31014	60	13	27	<0.5	40	1.54%
31015	17	11	14	<0.5	34	1.52%
31016	21	<10	21	<0.5	29	1.71%
31017	14	11	26	<0.5	33	4.50%
31018	10	<10	23	<0.5	37	1.99%
31019	<5	<10	24	0.8	46	9410
31020	<5	<10	32	<0.5	38	1.47%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

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ANALABS

Our reference : BU017454
Your reference : **128526**
Project code : Lindsay Newnham samples
Report date : 21/02/00
Report status : Final
Page : 4 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
30503	12	--				
30504	29	25				
30505	9	--				
30506	14	11				
30507	14	--				
30508	13	--				
30509	28	--				
30510	54	53				
30511	36	--				
30512	33	33				
30513	29	--				
30514	9	--				
30515	8	--				
30516	8	--				
30517	8	--				
30518	5	--				
30519	5	--				
30520	5	--				
30521	7	--				
30522	9	--				
30523	15	15				
30524	4	--				
30525	7	--				
30526	3	--				
30527	5	3				
30528	1	--				
30529	<1	--				
30530	2	--				
30531	2	--				
30532	5	2				
30533	1	--				
30534	2	--				
30535	2	--				
30536	7	--				
30537	<1	2				
30538	1	--				
30539	1	--				
30540	6	--				
30541	6	--				
30542	5	--				
30543	1	--				
30544	2	<1				
30545	2	--				
30546	4	--				
30547	2	3				
30548	1	--				
30549	2	--				
30550	7	--				
30701	6	--				
30702	7	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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ANALABS

Our reference : BU017454
Your reference : 128526
Project code : Lindsay Newnham samples
Report date : 21/02/00
Report status : Final
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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
30703	3	--				
30704	4	--				
30705	2	--				
30706	2	--				
30707	5	--				
30708	5	--				
30709	4	--				
30710	4	--				
30711	1	--				
30712	10	11				
30713	8	--				
30714	7	--				
30715	3	--				
30716	6	--				
30717	3	--				
30718	4	--				
30719	5	--				
30720	4	--				
30721	2	3				
30722	3	--				
30723	4	--				
30724	5	--				
30725	8	--				
30726	4	--				
30727	3	--				
30728	4	2				
30729	4	--				
30730	6	--				
30731	4	--				
30732	1	--				
30733	10	--				
30734	9	--				
30735	14	--				
30736	12	--				
30737	10	10				
30738	12	--				
30739	17	--				
30740	21	--				
30741	12	--				
30742	12	--				
30743	28	26				
30744	12	--				
30745	9	9				
30746	9	--				
30747	3	--				
30748	7	--				
30749	3	--				
30750	6	--				
31001	5	--				
31002	1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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ANALABS

Our reference : BU017454
Your reference : 128526
Project code : Lindsay Newnham samples
Report date : 21/02/00
Report status : Final
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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
31003	2	--				
31004	8	--				
31005	7	--				
31006	6	--				
31007	4	--				
31008	11	--				
31009	22	20				
31010	9	9				
31011	8	--				
31012	8	7				
31013	6	--				
31014	3	--				
31015	7	--				
31016	9	--				
31017	6	--				
31018	3	--				
31019	3	5				
31020	3	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

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ANALABS

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU017477
Your reference : **128527**
Project code : Newnham
Date received : 07/02/00
Date reported : 21/02/00

Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Number of pages of results : 6
Number of Samples : 104
First Sample : 31021
Last Sample : 31124

Invoice to:
Dr Robin Morritt

Pacific Nevada Mining Pty Ltd
PO Box 7214
Cloister Square
PERTH
WA 6850

Electronic Data Transmission :
Modem Y 21/02/00
Facsimile / /
Disk Report / /

Preliminary Reports :
15/02/00 Report
16/02/00 Report

Results to:

Results to:

Remarks :

Authorised by .....
On behalf of:

Rob Chapman
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.

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ANALABS

Our reference : BU017477
Your reference : **128527**
Project code : Newnham
Report date : 21/02/00
Report status : Final
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Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
31021	6	<10	34	<0.5	40	1.93%
31022	22	<10	29	<0.5	24	1.86%
31023	8	<10	33	<0.5	40	2.05%
31024	8	<10	17	<0.5	28	1.15%
31025	8	<10	24	<0.5	25	1.37%
31026	38	<10	21	<0.5	11	1.04%
31027	<5	<10	30	<0.5	15	1.45%
31028	37	<10	60	<0.5	14	7990
31029	25	<10	22	<0.5	16	9540
31030	12	<10	20	<0.5	22	1.83%
31031	18	15	21	<0.5	44	4.95%
31032	21	15	24	<0.5	44	3.20%
31033	5	11	38	<0.5	33	2.30%
31034	<5	<10	21	<0.5	30	2.30%
31035	<5	<10	51	<0.5	35	3.30%
31036	<5	<10	31	<0.5	21	3.65%
31037	<5	<10	26	<0.5	21	2.25%
31038	15	<10	32	<0.5	25	1.61%
31039	11	<10	22	<0.5	23	3.05%
31040	6	<10	36	<0.5	31	2.25%
31041	<5	<10	24	<0.5	18	1.84%
31042	<5	<10	26	<0.5	17	2.15%
31043	17	<10	42	<0.5	25	2.40%
31044	8	<10	30	<0.5	19	1.80%
31045	15	<10	25	<0.5	17	1.30%
31046	10	<10	28	<0.5	28	1.94%
31047	8	<10	36	<0.5	22	2.50%
31048	<5	<10	24	<0.5	23	2.25%
31049	16	15	22	<0.5	33	2.30%
31050	21	12	9	<0.5	42	3.20%
31051	24	14	14	<0.5	27	2.75%
31052	28	16	21	<0.5	40	3.20%
31053	16	<10	24	<0.5	24	3.55%
31054	35	<10	20	<0.5	30	3.05%
31055	13	<10	26	<0.5	21	2.90%
31056	17	<10	24	<0.5	34	4.00%
31057	23	15	22	<0.5	39	3.30%
31058	9	12	23	<0.5	19	2.30%
31059	12	13	20	<0.5	38	2.50%
31060	18	17	20	<0.5	29	2.70%
31061	12	12	26	<0.5	18	3.00%
31062	16	<10	21	<0.5	40	2.90%
31063	11	<10	24	<0.5	10	1.90%
31064	11	<10	20	<0.5	9	2.20%
31065	20	17	15	<0.5	34	2.85%
31066	25	13	14	<0.5	34	3.10%
31067	15	<10	13	<0.5	24	3.05%
31068	15	<10	17	<0.5	25	3.30%
31069	32	12	12	<0.5	29	3.00%
31070	26	11	13	<0.5	26	3.75%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

ANALABS

Our reference : BU017477
Your reference : 128527
Project code : Newnham
Report date : 21/02/00
Report status : Final
Page : 2 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
31071	11	<10	20	<0.5	16	2.15%
31072	14	<10	17	<0.5	10	2.10%
31073	12	<10	24	<0.5	15	4.00%
31074	12	<10	14	<0.5	11	1.96%
31075	11	<10	11	<0.5	16	1.83%
31076	7	<10	15	<0.5	10	2.25%
31077	<5	<10	20	<0.5	13	1.45%
31078	<5	<10	15	<0.5	9	1.79%
31079	<5	<10	15	<0.5	6	1.91%
31080	8	<10	17	<0.5	6	4.10%
31081	5	<10	18	<0.5	15	4.85%
31082	11	<10	17	<0.5	10	2.10%
31083	<5	<10	14	<0.5	22	1.56%
31084	9	<10	18	<0.5	23	2.45%
31085	<5	<10	15	<0.5	14	2.05%
31086	<5	<10	17	<0.5	17	2.95%
31087	<5	<10	11	<0.5	16	2.55%
31088	<5	<10	13	<0.5	15	3.00%
31089	9	12	13	<0.5	37	3.90%
31090	6	<10	19	<0.5	14	5.55%
31091	7	14	15	<0.5	26	4.35%
31092	12	19	15	<0.5	28	4.75%
31093	54	10	19	<0.5	28	4.60%
31094	12	12	13	<0.5	28	4.60%
31095	22	<10	15	<0.5	27	5.15%
31096	<5	<10	14	<0.5	7	3810
31097	17	13	21	<0.5	50	6.55%
31098	13	12	16	<0.5	49	5.30%
31099	15	<10	20	<0.5	28	5.55%
31100	13	12	17	<0.5	51	7.15%
31101	19	14	14	<0.5	40	4.65%
31102	18	13	17	<0.5	32	3.90%
31103	8	<10	15	<0.5	27	3.50%
31104	<5	<10	10	<0.5	28	1.60%
31105	5	<10	13	<0.5	29	3.05%
31106	<5	<10	13	<0.5	22	2.45%
31107	6	12	17	<0.5	17	3.50%
31108	<5	13	17	<0.5	11	4.45%
31109	<5	10	20	<0.5	11	7.75%
31110	9	<10	17	<0.5	24	8.00%
31111	10	11	20	<0.5	22	4.70%
31112	8	<10	20	<0.5	27	4.65%
31113	8	<10	20	<0.5	28	2.15%
31114	11	<10	20	<0.5	31	7800
31115	<5	<10	15	<0.5	38	5290
31116	8	<10	25	<0.5	23	1.03%
31117	<5	<10	20	<0.5	31	245
31118	9	<10	55	<0.5	23	1410
31119	<5	64	25	<0.5	36	3050
31120	11	<10	16	<0.5	24	1.78%
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

ANALABS

Our reference	:	BU017477
Your reference	:	128527
Project code	:	Newnham
Report date	:	21/02/00
Report status	:	Final
Page	:	3 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Pb	Zn	Ag	As	S
31121	8	<10	20	<0.5	16	8140
31122	<5	15	30	<0.5	17	7940
31123	<5	<10	39	<0.5	13	5350
31124	6	<10	23	<0.5	11	6770
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	10	5	0.5	5	50

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

ANALABS

Our reference : BU017477
Your reference : 128527
Project code : Newnham
Report date : 21/02/00
Report status : Final
Page : 4 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
31021	3	--				
31022	6	--				
31023	7	--				
31024	2	--				
31025	3	--				
31026	2	--				
31027	1	--				
31028	1	--				
31029	<1	--				
31030	4	3				
31031	27	27				
31032	28	27				
31033	6	--				
31034	3	--				
31035	3	--				
31036	3	--				
31037	2	3				
31038	2	--				
31039	4	--				
31040	<1	--				
31041	<1	--				
31042	1	--				
31043	<1	--				
31044	1	--				
31045	<1	--				
31046	5	--				
31047	5	--				
31048	1	<1				
31049	6	--				
31050	19	19				
31051	12	--				
31052	21	--				
31053	2	--				
31054	5	--				
31055	3	5				
31056	6	--				
31057	42	43				
31058	9	--				
31059	7	--				
31060	82	86				
31061	11	--				
31062	17	--				
31063	4	--				
31064	31	27				
31065	35	--				
31066	83	76				
31067	58	--				
31068	51	--				
31069	79	--				
31070	52	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

ANALABS

Our reference : BU017477
Your reference : 128527
Project code : Newnham
Report date : 21/02/00
Report status : Final
Page : 5 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
31071	7	--				
31072	7	--				
31073	11	--				
31074	9	--				
31075	11	--				
31076	7	9				
31077	3	--				
31078	3	--				
31079	5	--				
31080	12	9				
31081	11	--				
31082	20	24				
31083	3	--				
31084	7	--				
31085	5	--				
31086	4	4				
31087	6	5				
31088	5	--				
31089	40	--				
31090	26	--				
31091	40	--				
31092	47	--				
31093	32	--				
31094	55	--				
31095	138	141				
31096	1	5				
31097	73	--				
31098	55	--				
31099	24	--				
31100	62	--				
31101	131	130				
31102	107	91				
31103	21	--				
31104	2	--				
31105	9	8				
31106	5	--				
31107	4	5				
31108	8	--				
31109	8	--				
31110	9	--				
31111	14	--				
31112	22	21				
31113	17	--				
31114	2	--				
31115	1	--				
31116	5	--				
31117	6	--				
31118	4	--				
31119	1	--				
31120	3	2				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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

ANALABS

Our reference : BU017477
Your reference : 128527
Project code : Newnham
Report date : 21/02/00
Report status : Final
Page : 6 of 6

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)				
31121	2	--				
31122	2	--				
31123	5	--				
31124	1	--				
Method	F614	F614				
Units	ppb	ppb				
Detection Limit	1	1				

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