

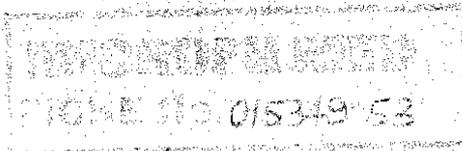
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PACIFIC-NEVADA MINING PTY LTD
Level 11, St Georges Square, 225 St Georges Terrace
Perth, Western Australia



**EL29/97 CYGNET
INTERIM REPORT TO 31.03.2000**



Volume 1 of 3

Prepared by N.J. Turner Geological Services Pty Ltd
65 Lochner St, West Hobart, Tasmania 7000

5th April 2000

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Interim Report to 31.03.2000 EL29/97 - Cynnet

Pacific-Nevada Mining Proprietary Limited c/o Turner Ge
Turner, N.J. EL29/97

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PACIFIC-NEVADA MINING PTY LTD
Level 11, St Georges Square, 225 St Georges Terrace
Perth, Western Australia

**EL29/97 CYGNET
INTERIM REPORT TO 31.03.2000**

Volume 1 of 3

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Prepared by N.J.Turner Geological Services Pty Ltd
65 Lochner St, West Hobart, Tasmania 7000

5th April 2000

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Adit at old Mt Mary Mine,
Cygnet. Circa 1928.

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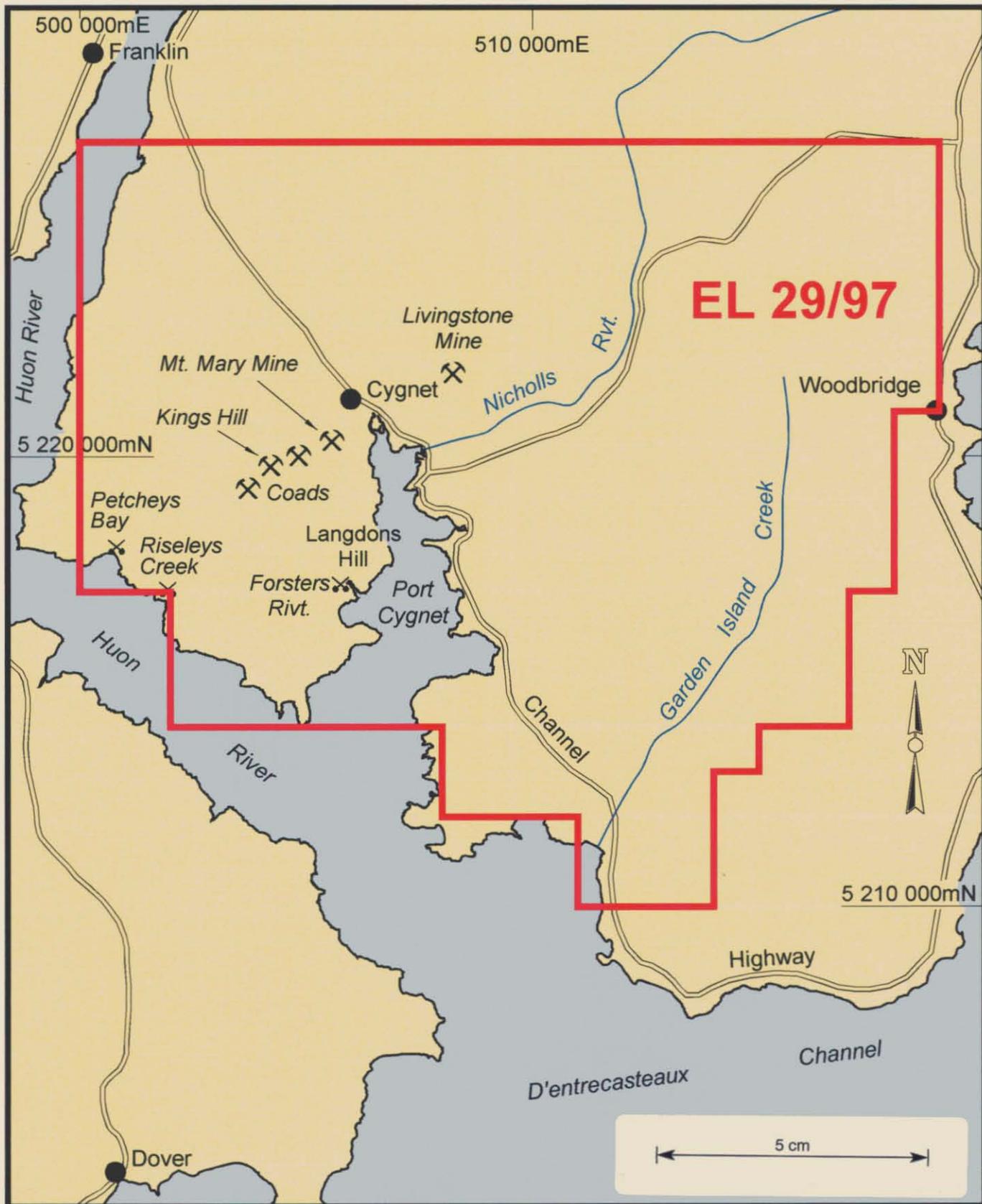
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1.0 Summary

- Work in the period has focussed on drilling around the old Mt Mary gold mine, which comprises shallow shafts (?60m), adits and small pits that were worked in the late 19th century and early 20th century. Production is not recorded.
- Previous relatively shallow drilling by Cyprus Minerals at Mt Mary returned polymetallic intersections that included 3m at 4.26gpt from 56m to 59m in percussion hole CT-87-5, 2m at 3.07gpt from 88m to 90m in diamond hole CT-87-20, and common, lower order, anomalous gold in another eleven percussion holes and two diamond holes.
- Pacific-Nevada has completed 1271.1m of diamond drilling at the old Mt Mary mine, in holes CM1, CM2 and CM3 of 553.9m, 400m and 317.2m depth respectively, all inclined at -50°. The holes were primarily designed to test for extensions of the mineralised structures intersected by Cyprus Minerals and for skarns developed in reactive sedimentary rocks.
- Each Pacific-Nevada drill hole intersected Permo-Carboniferous sedimentary rocks and Jurassic dolerite. The deepest hole ended in probable ?Early Palaeozoic-Proterozoic phyllitic siltstone. Small intrusions of Cretaceous intermediate porphyry are common in the major rock units.
- Thin, scattered, moderately (0.1-1gpt) and strongly (>1gpt) anomalous gold intersections (including 0.23m at 11gpt from 248.3-248.53m) were encountered in CM1, which passed under the near vicinity of the old Mt Mary mine. There is metal zonation from Au, Pb, Zn, Ag at shallow depths, passing down through Au Cu Zn Ag to Au Cu Ag. Between 90m and 140m in hole CM2 there are intervals containing moderately anomalous gold values. Moderately anomalous gold values are scattered in hole CM3.
- The moderately to strongly anomalous gold is present in all rock types. It is related to fracture veinlets with associated alteration.
- The source of an aeromagnetic anomaly tested by drill hole CM2 proved to be intensely altered Jurassic dolerite with abundant magnetite and little gold. Surface mapping and rock chip sampling showed that the southern arm of a strong aeromagnetic anomaly over Port Cygnet has a similar source, with gold anomalous rocks to the south.
- Detailed geological mapping and rock chip sampling are recommended in a number of essentially untested areas south of Cygnet, particularly at Langdons Hill where Pacific-Nevada now has access to ground that was previously held under another tenement. This work should be supported by a reappraisal of the geophysical interpretation of EL29/97, made in the light of the results of the recent round of drilling.
- The Cygnet Dome is a large structure of some 14km diameter, with widespread trace gold in its drainage. Further work is encouraged by the fact that only two, relatively small areas of old diggings at Mt Mary and Black Jack Ridge have been drill-tested so far. These areas do not relate to the best stream sediment results identified in previous regional surveys.



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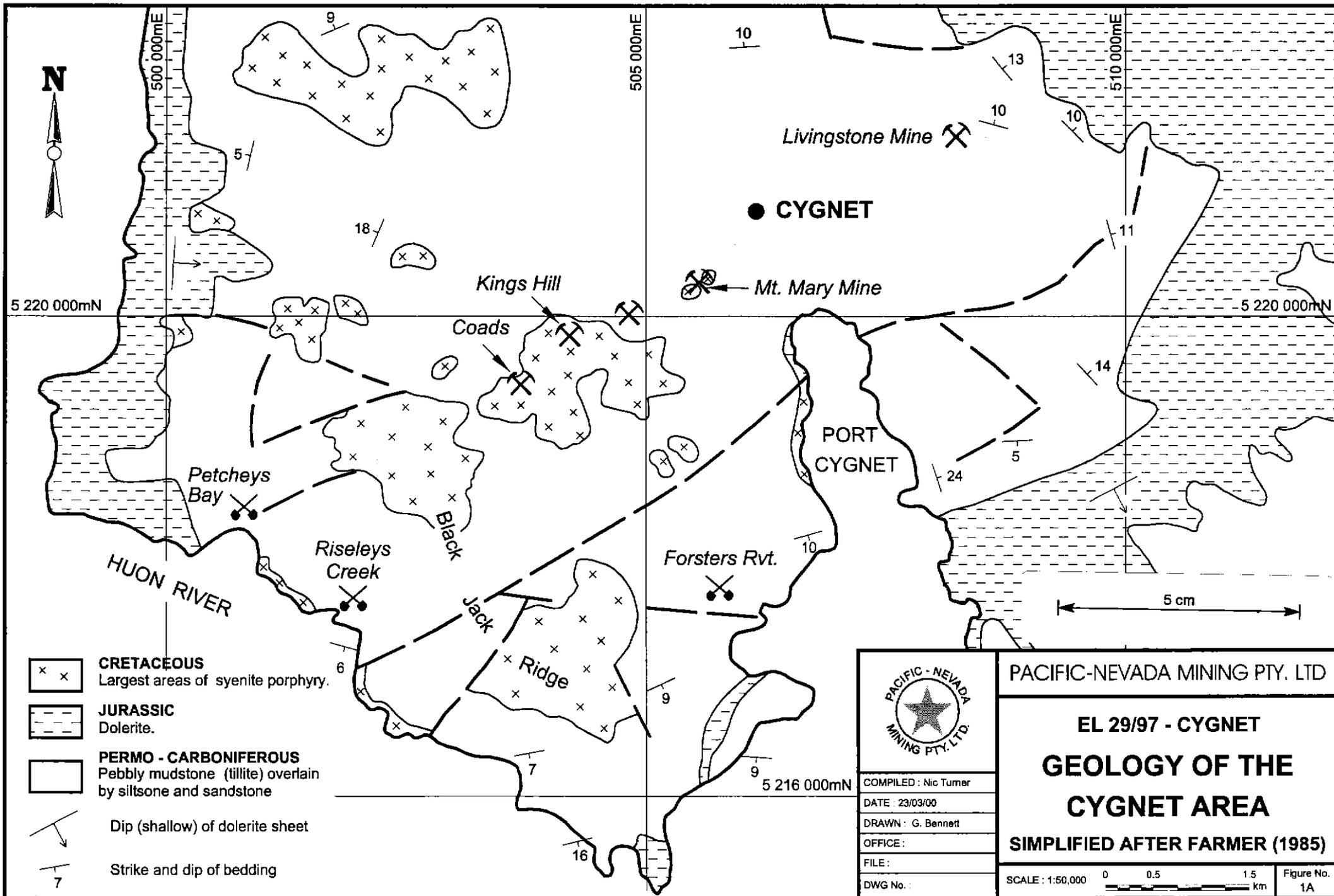
EL 29/97 - CYGNET

LOCATION PLAN

COMPILED : N. Turner
 DATE : 10/04/00
 DRAWN : G. Bennett
 OFFICE :
 FILE : Cygnet Location Plan
 DWG No. :

SCALE : 3 km

Figure No. 1



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EL 29/97 - CYGNET
GEOLOGY OF THE
CYGNET AREA

SIMPLIFIED AFTER FARMER (1985)

COMPILED : Nic Turner
DATE : 23/03/00
DRAWN : G. Bennett
OFFICE :
FILE :
DWG No. :

SCALE : 1:50,000
0 0.5 1.5 km
Figure No. 1A

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2.0 Introduction

This is the third report relating to Pacific-Nevada's work on EL29/97 Cygnet. It should be read in conjunction with the two, previous Annual Reports (Reid,1998;Turner,1999). These previous reports outline tenement details, regional geology, exploration concepts and the results of earlier mineral exploration work by other companies, including the results of Pacific-Nevada's relogging of diamond drill core obtained by Cyprus Minerals. Also, the reports describe preliminary stream sediment sampling and rock chip sampling by Pacific-Nevada around Langdons Hill (Figure 1), as well as providing an interpretation of the company's detailed aeromagnetic survey of EL29/97 (Hungerford, 1999).

Work during the period covered by this report has focussed on a program of diamond drilling around the old hard-rock workings known as the Mt Mary mine (Figure 1). The prospect was previously drilled by Cyprus Minerals to relatively shallow depths, but Pacific-Nevada has drilled to substantially greater depths. A small amount of geological mapping and rock chip sampling in a nearby area was also carried out during the reporting period.

The tenement details for EL29/97 changed in November, 1999, when a mining lease that was held by A M Reardon, a local landowner, over ground on the northern slopes of Langdons Hill was refused renewal by Mineral Resources Tasmania. This ground is now part of EL29/97.

3.0 Exploration targets in the current period

Two broad styles of Cretaceous gold mineralisation have been identified in the Cygnet district (Taheri and Bottrill ,1999) namely, porphyry-hosted and sedimentary-hosted. Pacific-Nevada's exploration programme is aimed at both these styles. In particular, potential is seen for the development of high grade, gold-bearing skarns in igneous contact zones, in reactive lenses in Permo-Carboniferous formations, and in carbonates of earlier Palaeozoic or Proterozoic age that may underly the Permo-Carboniferous strata.

Pacific-Nevada's previously reported aeromagnetic survey (Hungerford, 1999) identified arcuate and circular anomaly patterns south and south west of Cygnet township that are suggestive of skarns developed in igneous contact zones. A strong arcuate pattern, with a peak over the northern part of Port Cygnet, was interpreted as pyrrhotite/magnetite alteration in the contact zone of a magnetic, Cretaceous syenite intrusion. One arm of this arcuate anomaly extends westwards from the peak. The other arm extends south then southwest, crossing the western shore of Port Cygnet east of Langdons Hill (Figure 1). A geological traverse was made along the shoreline to establish the source of the anomaly.

A less intense, circular aeromagnetic pattern south west of the old Mt Mary mine was interpreted as the contact zone of a less magnetic, Cretaceous syenite body. The greater magnetism of the contact zone was attributed to an increase in pyrrhotite/magnetite caused by thermal metamorphism of the adjacent sedimentary rocks, but skarn development was also a possibility. This aeromagnetic feature has been one of the targets of a diamond drilling program by Pacific-Nevada around the old Mt Mary mine.

Because previous geological mapping (Farmer, 1985) indicated that a substantial thickness of Truro Tillite could be present beneath the old Mt Mary gold mine, this area was regarded as an attractive target in terms of testing for potentially reactive intervals in the lower part of the Permo-Carboniferous succession. Also, the possibility existed of reaching older, potentially reactive rocks below the Truro Tillite. The drilling program at Mt Mary targeted these aspects.

A previous program of relatively shallow percussion and diamond drilling by Cyprus Minerals around the old Mt Mary mine (Jones, 1987; 1988) reached a maximum depth of 132.9m at -50° inclination. The drilling returned polymetallic intersections that included 3m at 4.26gpt Au, 2m at 3.07gpt Au and common, lower order anomalous gold (Figure 5). Structures striking north to north east, and dipping steeply west to north west were considered to control the mineralisation (Turner, 1999). Testing these inferred structures at depth was an important aim of Pacific-Nevada's drilling program around the old Mt Mary mine.

4.0 Work carried out by Pacific-Nevada Mining Pty Ltd

4.1 GEOLOGY AND ROCK CHIP RESULTS

The aeromagnetic anomaly that crosses the western shore of Port Cygnet near Langdons Hill coincides with the northern contact zone of a narrow interval of altered Jurassic dolerite which is intruded by Cretaceous felsic porphyry (Figure 2). Through much of the narrow interval the altered dolerite appears to be fairly continuous, but to the south and north it passes into igneous breccia consisting of abundant angular blocks of altered dolerite contained in an intrusive matrix of porphyry. Values of magnetic susceptibility in the altered dolerite commonly reach $10-15 \times 10^{-3} \text{si}$, with maxima of $45 \times 10^{-3} \text{si}$ in the northern contact zone. Magnetic susceptibility in the porphyry is generally less than $2 \times 10^{-3} \text{si}$.

North of the dolerite interval the felsic porphyry contains patches of altered dolerite blocks. In this area there are scattered, small concentrations of magnetite pebbles along the rocky shore that appear to be derived from veins. No gold was detected in the magnetite (140211), nor in samples of porphyry and diorite that were collected further to the north (140321-140328, 7641517). However, moderately anomalous gold in the range 0.1-0.29ppm was returned

from pyritic quartzite, pale altered mudstone, ?silicified igneous rock, and two types of syenite porphyry that all occur to the south of the altered dolerite interval (140202-140207).

The rocks to the south of the altered dolerite interval consist of hornfelsed Permo-Carboniferous mudstone and siltstone belonging to the Bundella Mudstone (Farmer, 1985), which contain scattered, thin intrusions of syenite porphyry. Several of the syenite porphyry intrusions are unusual and are included in the Register of the National Estate. Sampling of outcrop of these porphyries is prohibited. However, fragments discarded by earlier collectors can be found beside the nearby road. One of these fragments, a garnetiferous porphyry (140203), returned 0.29ppm Au, 0.38% Pb and 0.275% Zn. The body from which the fragment was probably derived is thin - about 800mm. Importantly, the rock chip results demonstrate that the Permo-Carboniferous sedimentary rocks may contain anomalous gold.

The presence of anomalous gold in rocks along the shoreline in the vicinity of Langdons Hill is consistent with previous work in this area by Cyprus Minerals and by Pacific-Nevada. Cyprus Minerals (Jones, 1985) returned gold values of 0.77ppm and 0.13ppm in panned concentrates derived from streams draining east and south from Langdons Hill. Pacific-Nevada (Reid, 1998) sampled part of the southern slope of the hill for rock chips, returning seven analyses in the range 20-90ppb Au and one analysis of 0.943ppm Au. The latter result was derived from a pyrite-hematite vein in silica altered Permo-Carboniferous sedimentary rocks at Copper Alley Bay, which is at the foot of the southern slope.

Pacific-Nevada has not followed up the preliminary work around Langdons Hill because, until last November, the northern slopes of the hill were not held by Pacific-Nevada. However, this ground has now become part of EL29/97. A sample of a pyritic quartz vein (140790) from an old digging on the northern slopes was provided by Dennis Wallace of Cygnet. It returned 0.14ppm Au, 0.334% Pb, 23ppm Ag and 642ppm Mo.

4.2 DIAMOND DRILL HOLES

4.2.1 Program

A series of four, 400m diamond drill holes was planned to test the area around the old Mt Mary mine (Turner, 1999), beneath the levels previously tested by Cyprus Mineral's drilling. Technical details of the Pacific-Nevada drilling program are given in Appendices 3-5, along with logs of the results. Because the drill sites were on the outskirts of the Cygnet township, a quiet LM75 rig was initially used. However, this rig gave unsatisfactory performance and was replaced with a Mindrill 66 after the first hole.

All the Pacific-Nevada holes were drilled at an azimuth of 152° AMG and an inclination of -50° from the north western side of the ridge on which the old Mt Mary mine is located (Figure 3). One hole (CM1) was aimed beneath the old workings, but was deflected to the right (south) at depth. Two holes were located south west of the workings, with the nearer hole (CM3) testing beneath anomalous soils and the more distant hole (CM2) testing the buried source of an aeromagnetic anomaly.

Changes to the planned program of four drill holes were brought about by the intersection of a sill of Jurassic dolerite in drill hole CM1. The presence of this sill was not predicted in the aeromagnetic interpretation. Drill hole CM1 was substantially extended (to 553.9m) so as to pass through the sill and establish the nature of the underlying rocks. This redirection of funds caused the drilling program to be reduced to three holes. Hole CM3 was stopped at 317.2m, after it had passed into dolerite of unprospective appearance.

4.2.2 Stratigraphy and rock types

All three drill holes passed through Permo-Carboniferous sedimentary rocks into a sill of Jurassic dolerite (Figures 4,5,6,7; Appendices 3,4,5). Small intrusions of Cretaceous porphyry are present throughout both these major rock units. The deepest drill hole (CM1) passed through the bottom of the dolerite sill into a thin interval of Permo-Carboniferous rocks, then into phyllitic siltstone of probable Early Palaeozoic or Proterozoic age. The rocks encountered in the Pacific-Nevada drill holes are generally quite fresh, in contrast with the Cyprus Minerals holes in which weathering is present to a vertical depth of about 100m.

The phyllitic siltstone at the bottom of CM1 is characterised by the presence of a spaced cleavage that is defined by very thin laminae of very fine grained, opaque (?carbonaceous) mineral and pyrite. Cleavage surfaces are moderately lustrous and are deformed in places by open kink bands with limb lengths of about 10mm. The overall structural fabric is similar to that of deformed pre-Middle Cambrian pelitic rocks found elsewhere in Tasmania.

Most of the Permo-Carboniferous rocks consist of unbedded, uncleaved, dark grey, pebbly sandy silty mudstone belonging to the Truro Tillite (Farmer, 1985). The pebbles are rounded to angular and are rarely more than 100mm across. They include quartzite, grey sandstone, black mudstone, milky quartz, fine grained felsic porphyry (?volcanic), granitoid, gneiss and schist. Strongly recrystallised and altered pebbles were probably derived from carbonate and ?basaltic protoliths. In each hole the Permo-Carboniferous rocks include an interval of dark grey mudstone. In hole CM3 the mudstone is interbedded with lithic sandstone and pebbly lithic sandstone.

The true thickness of the Jurassic dolerite sill in hole CM1 is about 270m (Figure 5). There are fine grained upper and lower margins and much of the sill is

medium grained. However, a substantial part of the sill consists of relatively coarse grained (up to 15mm) blades and patches of green amphibole contained in a fine grained to medium grained, felsic groundmass. This 'coarse grained' material appears to be a fracture-related alteration product, though there may be some influence on its character and distribution that derives from the primary mineralogy and grainsize distribution in the sill. It is the dominant rock type in the dolerite intersections in holes CM2 and CM3. Alteration of primary pyroxene to green amphibole seems to have occurred in much of the medium grained dolerite in all holes. A comprehensive description of the various types of dolerite will require thin section work.

In hand specimen the numerous small intrusions of Cretaceous porphyry that are present in all holes are very varied, mainly due to differences in the size and form of the feldspar grains and to different degrees of alteration. Two common types of unaltered porphyry can be distinguished. One type is characterized by the presence of abundant small (max. size 4-10mm), fairly equant feldspar phenocrysts, which may be accompanied by sparse, relatively large (max. size, 15-40mm), euhedral tabular feldspar phenocrysts. In the other common type of porphyry the large, tabular feldspar phenocrysts are the principal type of feldspar. They are common to abundant and show flow alignment. Both types of porphyry contain subordinate, usually medium grained, black hornblende and may contain green ?pyroxene. Their groundmass is medium grey in colour and may either be fine grained or very fine grained.

Comparison of Pacific-Nevada's relogging of the Cyprus drill holes (Turner, 1999) with Figures 28 and 29 of Taheri and Bottrill (1999) indicates that the small feldspar porphyries are silica saturated, whereas the large feldspar (?sanidine) porphyries are silica undersaturated. Other silica undersaturated rocks include lamprophyre, which comprises 11 of the 12 intrusions between 346.15m and 444.45m in CM1, but is uncommon elsewhere. The lamprophyre intrusions consist of common to abundant, small, black hornblende phenocrysts and subordinate, small ?pyroxene phenocrysts in a fine grained, grey or buff groundmass. Unusual porphyries in CM3 that contain orange garnet phenocrysts are probably also undersaturated. These intrusions do not exhibit the Au, Pb, Zn anomalism that is evident in the garnetiferous porphyry on the shore near Langdon's Hill (see 4.1 above).

4.2.3 Structure

The top of the muddy interval in the Permo-Carboniferous rocks is at +16m ASL in CM2, at -20m ASL in CM3 and at -10m ASL in CM1. Thus, there is an apparent dip of -4° from drill hole CM2 to drill hole CM3, and an apparent dip of $+2^{\circ}$ from CM3 to CM1, probably indicating that the strata undulate very gently.

The position of the top of the Jurassic dolerite sill is shown in Figures 5-7, which are sections of the three drill holes. In CM3 the top has a measured dip of 15°

towards 002° AMG. This is consistent with an apparent dip of -8° for the top from CM2 to CM3. However, the apparent dip of $+4^{\circ}$ from CM3 to CM1, and from CM1 to the north western shore of Port Cygnet, where the top of the dolerite sill is at about +10m ASL, is not consistent and suggests that the top of the dolerite sill also undulates gently. It may also be faulted.

Projection of the poles to measured contacts of Cretaceous porphyry in the three drill holes (Figure 8) illustrates that the contacts dip steeply and mostly strike north east, but there is a big variation in strike. A similar impression was gained from observations of individual intrusions exposed along the length of the Mt Mary prospect, in cuttings on Kings Hill Road. The boundaries of these intrusions can be very irregular.

Planar fractures are common and widespread in tillite and dolerite in the three drill holes, but are not so well developed in the Cretaceous porphyry. Generally there is more than one set of fractures, and in many intervals of drill core there are several sets. A projection of poles to planar fractures in two oriented intervals of core from the dolerite in drill hole CM1 is presented in Figure 9. Although the measurements show a wide spread, the figure suggests that steeply dipping, north east striking fractures and gently dipping fractures predominate.

Several faults were encountered in the drill holes. In CM1 there is a substantial fault zone at 34.8-70.5m. It is in tillite, which is strongly fractured with scattered shears and breccia intervals. The main locus of movement is at 56.5-59m, where an intense cataclastic fabric is developed. The cataclasite is not significantly mineralised in gold, containing only mildly elevated lead and zinc. A narrow fault zone occupies the contact (361.45m to 362.7m) between dolerite and diorite near the bottom of CM2, and there is a probable fault breccia between 304.5-305m in CM3. Neither of these structures is significantly mineralized.

4.2.4 Veining, alteration and mineralisation

The relationship between gold analyses and rock types in the three Pacific-Nevada drill holes is illustrated in Figure 4. Continuous sampling was restricted to parts of CM1, whilst other parts of CM1 and all of CM2 & 3 were selectively sampled. The analytical results show that moderately anomalous gold in the range 0.1-1ppm is not specific to rock type, being present in the Permo-Carboniferous sedimentary rocks, in the Jurassic dolerite and in the Cretaceous porphyries. Strongly anomalous gold of greater than 1ppm is restricted to small intersections in the Jurassic dolerite in CM1.

Depths, sample numbers, analytical data and descriptions for specific intervals in drill hole CM1 that have moderately to strongly anomalous values of gold are given in Appendix 2. Irrespective of the primary rock type, these mineralised intervals display fracture veinlets and alteration. The strongly anomalous gold

values (140198, 140273, 140381) in the Jurassic dolerite can be attributed to narrow fracture veins, as can the moderately anomalous gold in a number of intervals (140199, 140215, 140217, 140219, 140487, 140490, 140413, 140420, 140484, 140485). Sampling was not sufficiently precise in the other moderately anomalous intervals of dolerite, tillite and porphyry in CM1 to directly attribute the gold values to the fracture veinlets. However, this seems likely, particularly in tillite samples 140061 and 140069, and porphyry samples 140141, 140197 and 140303.

In drill hole CM2 there is moderately anomalous gold in the range 0.1-0.72ppm. It is almost entirely restricted to veined, altered tillite between the depths of 93.9m and 137.41m. Within this depth range there are intervals in which silicification of the normally dark grey tillite has produced colours ranging medium grey to cream. The altered intervals are cut by veinlets of actinolite-pyrite-?magnetite, also veinlets of sulphide and sulphide-?magnetite. Dolerite in the lower part of CM2 is essentially unmineralised in gold, despite abundant fracture veinlets and an additional phase of fracture related ?chloritic alteration that is not pronounced in CM1 & 3. The later phase of alteration apparently introduced substantial magnetite and subordinate sulphide. There is mild copper anomalism and isolated zinc anomalism in the altered dolerite. Check analyses of 19 samples of dolerite by AMDEL confirmed the low values of gold reported by Analabs (Appendix 4).

Sparse, moderately anomalous gold values in drill hole CM3 range up to 0.91ppm. At 62m the gold value of 0.91ppm (140699) can be directly attributed to a 30mm thick fracture vein of pyrite, non-magnetic black mineral, ?chlorite and epidote, with pale margins of altered tillite. Similar veinlets and alteration occur in other anomalous intervals in tillite and porphyry. The pebbly lithic sandstone units in CM3 have been preferentially and substantially altered (silicified) but are poor in sulphide and gold. The dolerite in CM3 displays substantial coarse grained alteration and fracturing, similar to parts of CM1, but contains very little anomalous gold.

5.0 Conclusions

Pacific-Nevada's drilling at the Mt Mary prospect encountered moderately to strongly anomalous gold intersections in Permo-Carboniferous sedimentary rocks, Jurassic dolerite and Cretaceous porphyry. The intersections are of lesser thickness than intersections that were reported from relatively shallow percussion and diamond drilling at the old Mt Mary mine by Cyprus Minerals. The intersections are reasonably consistent with gold intersections identified in Pacific-Nevada's relogging of the Cyprus Mineral's diamond drill core.

It is likely that the Cyprus Minerals percussion hole results are affected by down-hole contamination. For example, in percussion hole CT-87-5 there is a 3m interval from 56m to 59m depth that averages 4.26gpt Au, with a stream of values ranging 0.09-1.12gpt Au from 59m to the bottom of the hole at 72m

(Jones, 1987; 1988). The Cyprus Minerals percussion holes were drilled with a rotary percussion rig using a 112mm downhole hammer. An attempt at RC drilling was unsuccessful.

A general correlation of the section from 199m to 285m depth in Pacific-Nevada's drill hole CM1 with the mineralised ground at the old mine is supported by the presence in CM1 of steeply dipping mineralised fractures, combined with the presence of more intervals of anomalous gold between 199m and 285m depth (Figures 4, 5, 9).

At the old Mt Mary mine there is a marked correlation between metal values and intervals in which the rocks are much fractured, limonitic and/or decomposed to clay. Some of these intervals were previously interpreted as faults. However, because there is little evidence of polished and slickensided surfaces, it is likely that these intervals are zones of more intense fracturing and relatively strong alteration that have been selectively acted on by supergene processes. None of the faults identified in drill holes CM1,2 and 3 is much altered, or significantly mineralised in gold.

Altered carbonate beds were not identified in the ?Early Cambrian-Proterozoic and Permo-Carboniferous sedimentary rocks. However, the pebbly lithic sandstone in drill hole CM3 is a lithology that is susceptible to alteration. Given exposure to the right fluids, this sandstone could host mineralisation.

The aeromagnetic anomaly that was tested by drill hole CM2 is caused by Jurassic dolerite that is more strongly and more complexly altered than the dolerite in CM1 and 3. Strongly altered dolerite was also identified as the source of the southerly arm of the aeromagnetic anomaly that occurs over Port Cygnet. In neither case is the altered dolerite significantly mineralised in gold.

At this stage of work, the reason for the circular and arcuate forms of the strongly altered dolerite at Port Cygnet and near Mt Mary (Hungerford, 1999, Figure C8) has not been demonstrated. As was initially postulated, it is likely that the arcs mark alteration at the margins of domes of Cretaceous porphyry. The Port Cygnet shoreline geology (Figure 2) and the bottom part of drill hole CM2 (Figure 6) are consistent with this interpretation. Support is also offered by the regional gravity map (Hungerford, 1999, Figure C5), which suggests that an elongate domal structure consisting of low density rocks is present between Port Cygnet and the Mt Mary-Kings Hill area.

In drill holes CM1,2,3 the coarse grained alteration of dolerite appears to have been the first of a series of fracture related events. It seems to have been followed by veinlet filling, then by emplacement of the small feldspar (saturated) porphyry intrusions, more fracturing, then emplacement of the large feldspar (undersaturated) porphyries and the lamprophyre intrusions, again followed by fracturing. The small feldspar porphyries are intruded by the large feldspar

porphyries in places, and some appear to be more fractured than the large feldspar porphyries. The timing of veinlet filling varied, with some veinlets older than porphyry intrusions, and some younger.

Metal zonation is developed within the overall fracture system in drill hole CM1 (see Appendix 2). A near surface Au-Pb-Zn association passes downwards to a Au-Cu-Zn-Ag association, then to a Au-Cu-Ag association. An association of Au-Pb-Zn-Ag is present in the relatively shallow levels tested by Cyprus Minerals at the old Mt Mary mine. No substantial molybdenum anomalism was identified in drill holes CM1,2,3. However, a value of 642ppm Mo was returned from a quartz vein sample collected in old diggings at Langdons Hill (140790).

6.0 Future work

Drilling by Cyprus Minerals and Pacific-Nevada has tested the Mt Mary prospect in a vertical range of 475m (to -350m ASL), and along a strike length of 1km. In addition, Cyprus Minerals drill tested a small area at Black Jack Ridge to a maximum vertical depth of 75m and along a strike length of 250m. Mt Mary and Black Jack Ridge are areas in which there are old diggings, but they represent only a small part of the Cygnet Dome, which has a diameter of some 14km and carries widespread trace gold in stream sediments.

The best gold results returned from regional stream sediment surveys (Jones,1985;Reid,1999) have been from streams draining Langdons Hill, and from streams further west at Direens Spur and Petcheys Bay. Until November, 1999, Langdons Hill fell partly within another tenement, but it is now entirely within EL29/97. Therefore, it is recommended that the stream sediment results there, and in the other localities, be followed up with detailed geological mapping and rock chip sampling, possibly followed by gridding of selected areas. Pacific-Nevada has already carried out some interesting preliminary work in this respect at Langdons Hill (Reid, 1998; see 4.1 above), but only on part of the southern slopes.

It is also recommended that the geophysical interpretation of EL29/97 be reviewed in the light of the recent drilling results. The identification of areas that are not underlain by dolerite, but which are cut by prospective structures, would be of particular interest. Such areas would provide a better opportunity of drill-testing for favourably altered units in the sedimentary sequences. Also of particular interest would be the identification of possible buried domes of Cretaceous porphyry, and fracture zones associated with them.

The Pacific-Nevada drilling at Mt Mary has substantially increased the range of material available for detailed studies of alteration and mineralisation in the Cygnet district. It would be of particular interest to develop more precise descriptions of the alteration and mineralisation in drill holes CM1,2 and 3, and to

extend the existing studies (Taheri and Bottrill, 1999) of the likely source of the fluids responsible for production of the moderately to strongly anomalous gold.

The undrilled hole in the recent drilling program should be included in a future drilling program. Drill holes CM2 and CM3 showed that gold intersections diminish to the south west of the old Mt Mary mine. The fourth hole would test under strongly anomalous soils, just north east of the old workings (Figure 3). It would also test for plunging mineralisation related to the workings, and further test the mineralised fracture system that was intersected in drill hole CM1.

7.0 Environmental matters

Pacific-Nevada made a considerable effort to accommodate environmental concerns that might arise from its operations on the outskirts of Cygnet township. Unfortunately, the quiet LM75 rig that was initially selected for the job was poorly set up, and proved an unreliable and expensive exercise for the company. The replacement Mindrill 66 was somewhat noisier, but acceptable with sound insulation. Drilling water was retained on site and recirculated through a series of settling tanks. Periodically, the sludge was removed from the drill site by a sucker-truck.

Rehabilitation of the sites of drill holes CM1 and CM3 was carried out shortly after completion of the holes. The owner of the CM2 site did not require that rehabilitation be carried out.

8.0 References

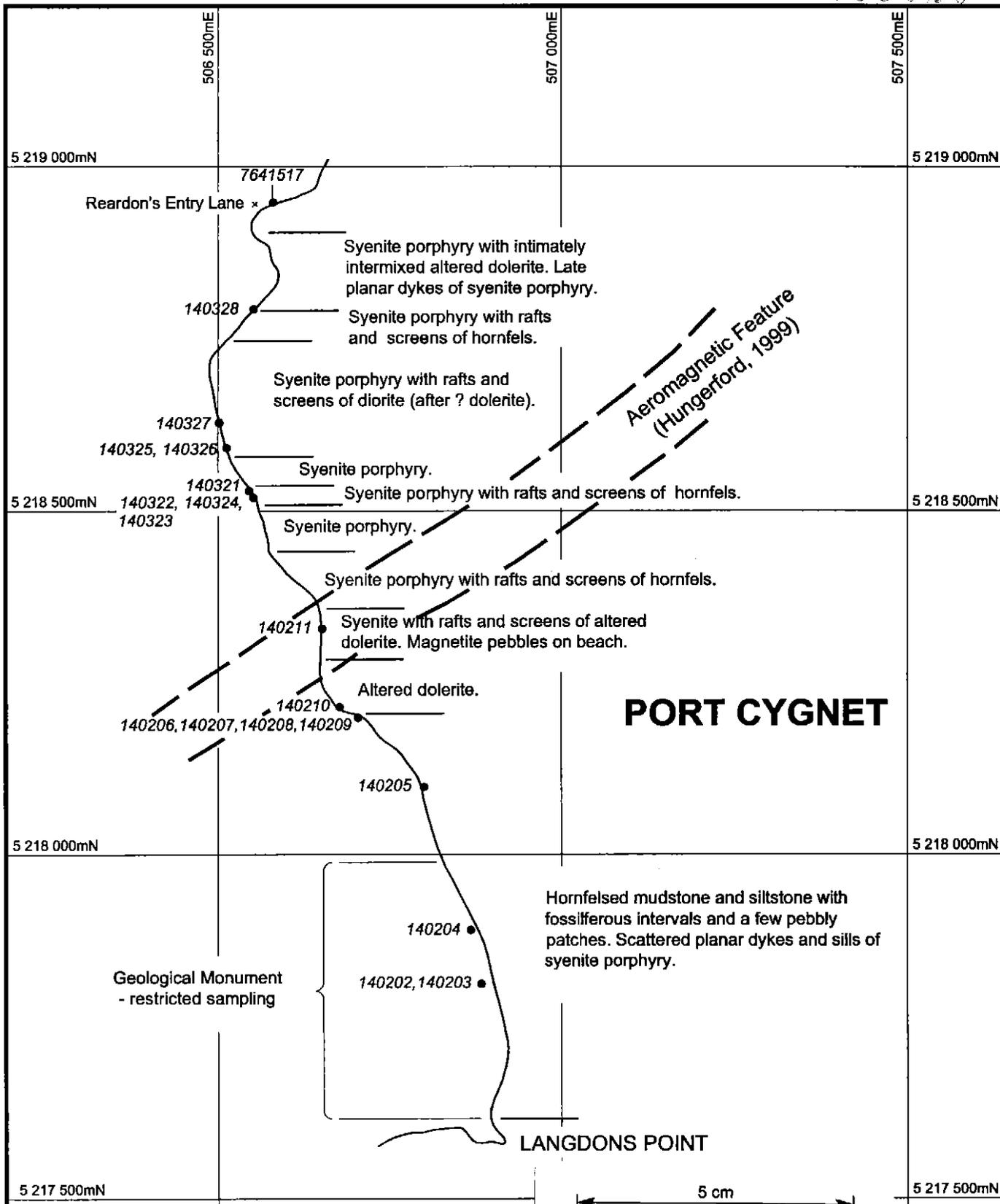
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Corporation. Mineral Resources Tasmania library TCR 88-2880.

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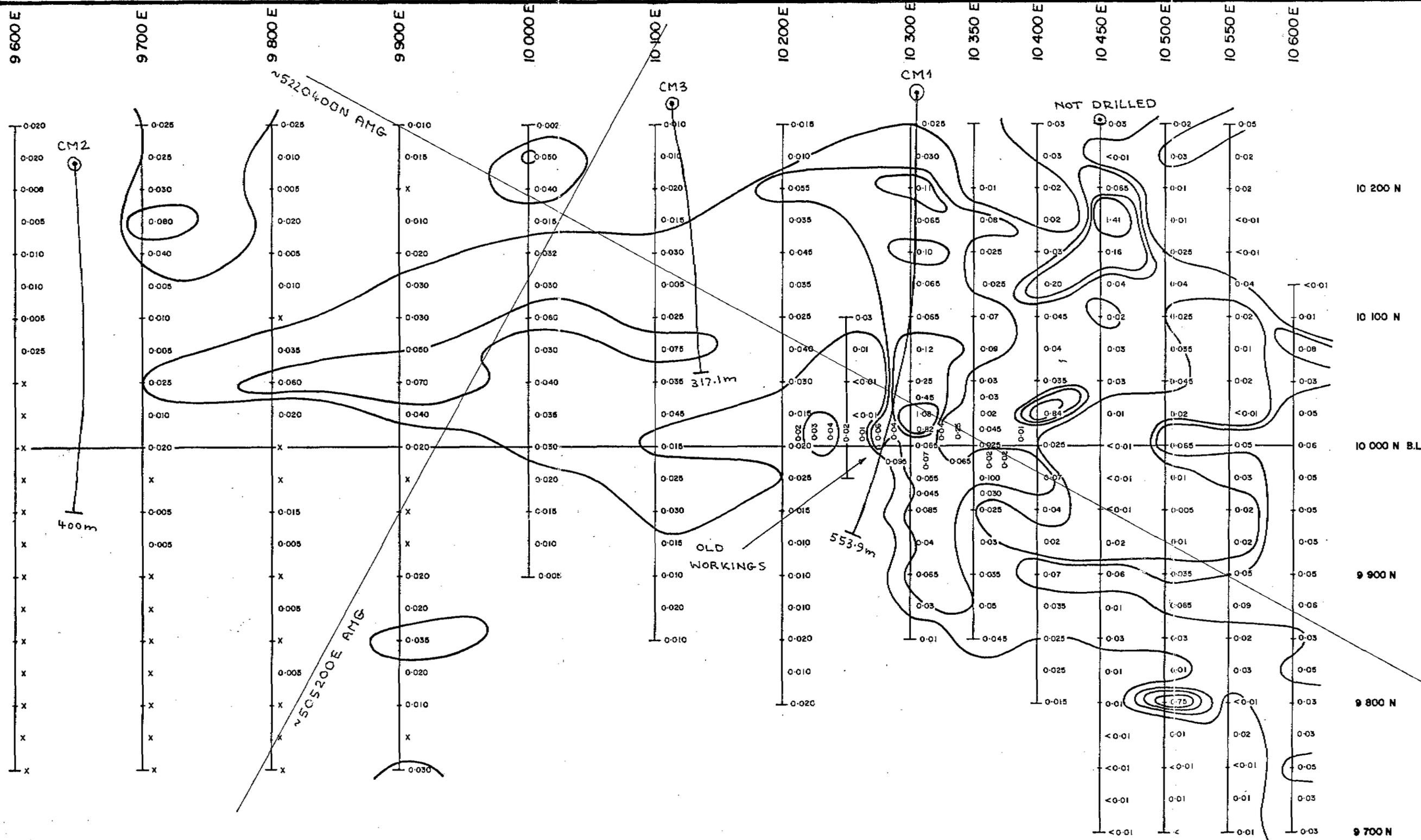
Turner, N. J. 1999. EL29/97 Cygnet. Annual report to 30.12.1999. Pacific-Nevada Pty Ltd.



	PACIFIC-NEVADA MINING PTY. LTD	
	EL 29/97 - CYGNET GEOLOGY AND ROCK CHIP SAMPLES, WESTERN SHORELINE OF PORT CYGNET	
	COMPILED : N. Turner	
	DATE : 15/03/00	
	DRAWN : G. Bennett	
OFFICE :		
FILE : Port Cygnet Geology	SCALE : 1:8000	Figure No. 2
DWG No. :		

00_4436

Interim Report to 31/3/2000 - EL29/97 - Cygnet
Pacific-Nevada Mining Proprietary Limited; Turner Ge
Turner, N.J. EL29/97



Contour Interval = 0.025, 0.05, 0.1, 0.5 etc.

MT MARY MINE

LOCATION OF PACIFIC-NEVADA'S
DIAMOND DRILL HOLES, 31.03.2000

Figure 3
After Jones (1987), TCR 87-2743

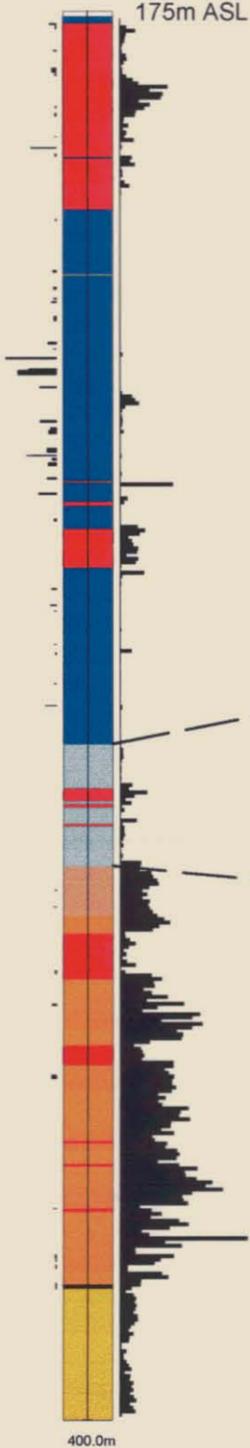
CYPRUS MINERALS	
MOUNT MARY	
GOLD	
GEOCHEMISTRY	
SCALE 1:2500	FIG. 14
DRAWN BY: P.J.	DATE: Mar '97
DRAFTSMAN: T.B.S.	REVISIONS:
FILE NO.	

SW

CM-2

9645mE

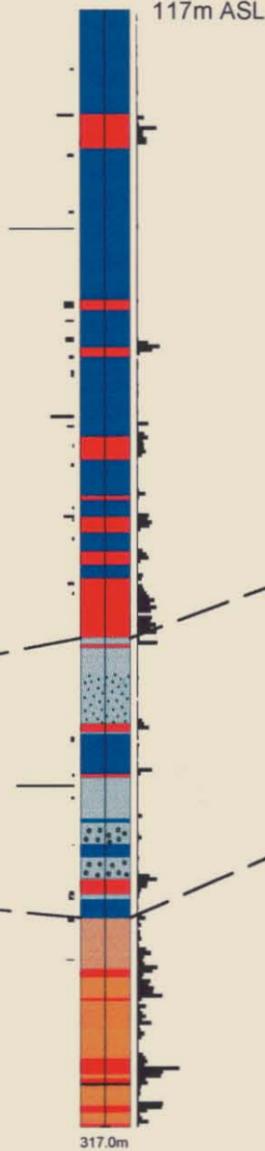
175m ASL



CM-3

10 116mE

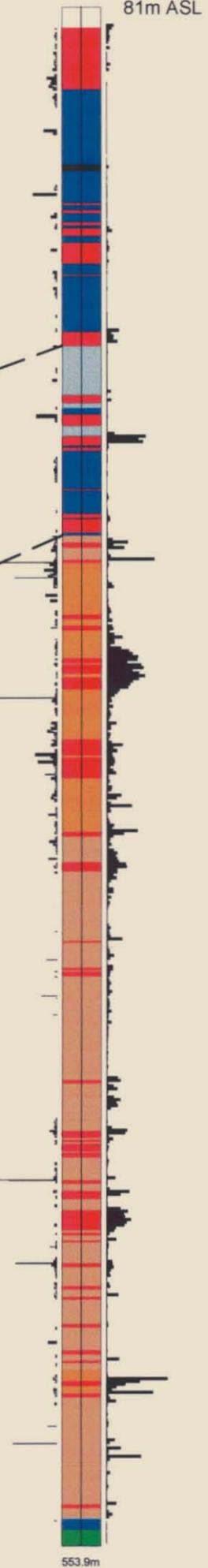
117m ASL



CM-1

10 300mE

81m ASL



00_4436

NE

LEGEND

CRETACEOUS

- Syenite porphyry, lamprophyre, etc.
- Hornblende diorite.

JURASSIC

- Dolerite.
- Dolerite with substantial coarse grained alteration.

PERMO-CARBONIFEROUS

- Pebbly mudstone (tillite).
- Mudstone.
- Mudstone and sandstone.
- Pebbly sandstone.

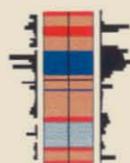
? EARLY PALAEOZOIC - PROTEROZOIC

- Phyllitic siltstone.
- Fault breccia, cataclasite.
- Correlation line.

NOTE

This figure illustrates lithological variation and does not depict structural relationships. Many porphyry contacts are at moderate angles to the drill hole axis.

DRILL HOLE



Gold Assays

Magnetic Susceptibility

1 g/t Au

100 x 10⁻³ si

5 cm

SAMPLING

Continuous	CM-1	7.5 - 317m, 400 - 510.72m
Selective	CM-1	317 - 400m, 510.72 - 553.9
	CM-2, CM-3	

639022



PACIFIC-NEVADA MINING PTY. LTD

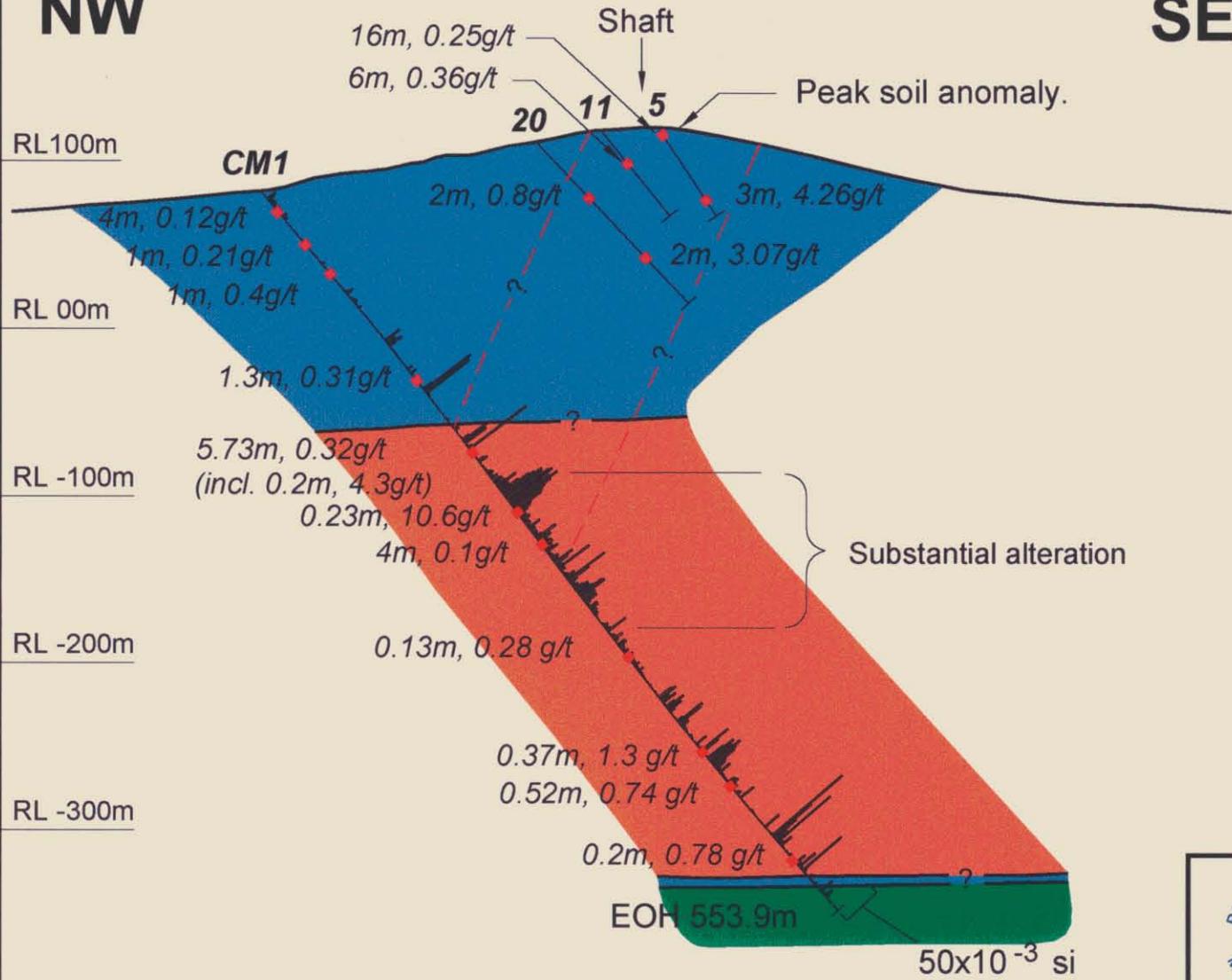
EL 29/97 - CYGNET
MT. MARY PROSPECT
DDH CM1, CM2 AND CM3
LITHOLOGIES, GOLD ASSAYS
& MAGNETIC SUSCEPTIBILITY

COMPILED : Nic Turner
DATE : 23/03/00
DRAWN : G. Bennett
OFFICE :
FILE :
DWG No. :

SCALE : 1:2000
0
20
60
m
 Figure No. 4

NW

SE



RL100m

RL 00m

RL -100m

RL -200m

RL -300m

CRETACEOUS
Syenite intrusions throughout section.

JURASSIC
Dolerite.

PERMO - CARBONIFEROUS
Pebbly mudstone (tillite).

? EARLY PALAEOZOIC/PROTEROZOIC
Phyllitic siltstone

5, 11, 20 Cyprus Minerals drill holes

CM1 Pacific Nevada drill hole

Gold assay (g/t)

Magnetic susceptibility

5 cm

	PACIFIC-NEVADA MINING PTY. LTD	
	EL 29/97 - CYGNET MT. MARY MINE SECTION 10 300mE	
	COMPILED : N. Turner	
	DATE : 10/04/00	
	DRAWN : G. M. Bennett	
OFFICE :		
FILE : Cygnet Section CM1	SCALE : 1:4000	Figure No. 5
DWG No. :		

639023

NW

SE

Extrapolated soil anomaly

RL200m

RL100m

RL 00m

RL -100m

RL -200m

CM2

Au 0.1-0.72g/t
in selected samples

Intervals of pale
alteration with
sulphide veinlets

Measured
dip

Fault

EOH 400.0m

50×10^{-3} si

CRETACEOUS



Multiple syenite intrusions.
Small intrusions throughout
tillite and dolerite.



Diorite.

JURASSIC



Dolerite - mostly altered.

PERMO - CARBONIFEROUS



Pebbly mudstone (tillite).

CM2

Pacific Nevada drill hole



Magnetic susceptibility

5 cm



PACIFIC-NEVADA MINING PTY. LTD

EL 29/97 - CYGNET
MT. MARY MINE
SECTION 9645mE

COMPILED : N. Turner

DATE : 10/04/00

DRAWN : G. M. Bennett

OFFICE :

FILE : Cygnet Section CM2

DWG No. :

SCALE : 1:4000



Figure No.
6

639024

NW

SE

RL200m

RL100m

RL 00m

RL -100m

RL -200m

CRETACEOUS
Syenite intrusions throughout section

JURASSIC

 Dolerite - mostly altered.

PERMO - CARBONIFEROUS

 Mainly pebbly mudstone (tillite).

CM3 Pacific Nevada drill hole

 Gold assay (g/t)

 Magnetic susceptibility

Peak soil anomaly

CM3

0.8m, 0.23g/t

0.21m, 0.91g/t

1.72m, 0.13g/t

0.85m, 0.32g/t

0.72m, 0.14g/t

0.62m, 0.81g/t

EOH 317.2m

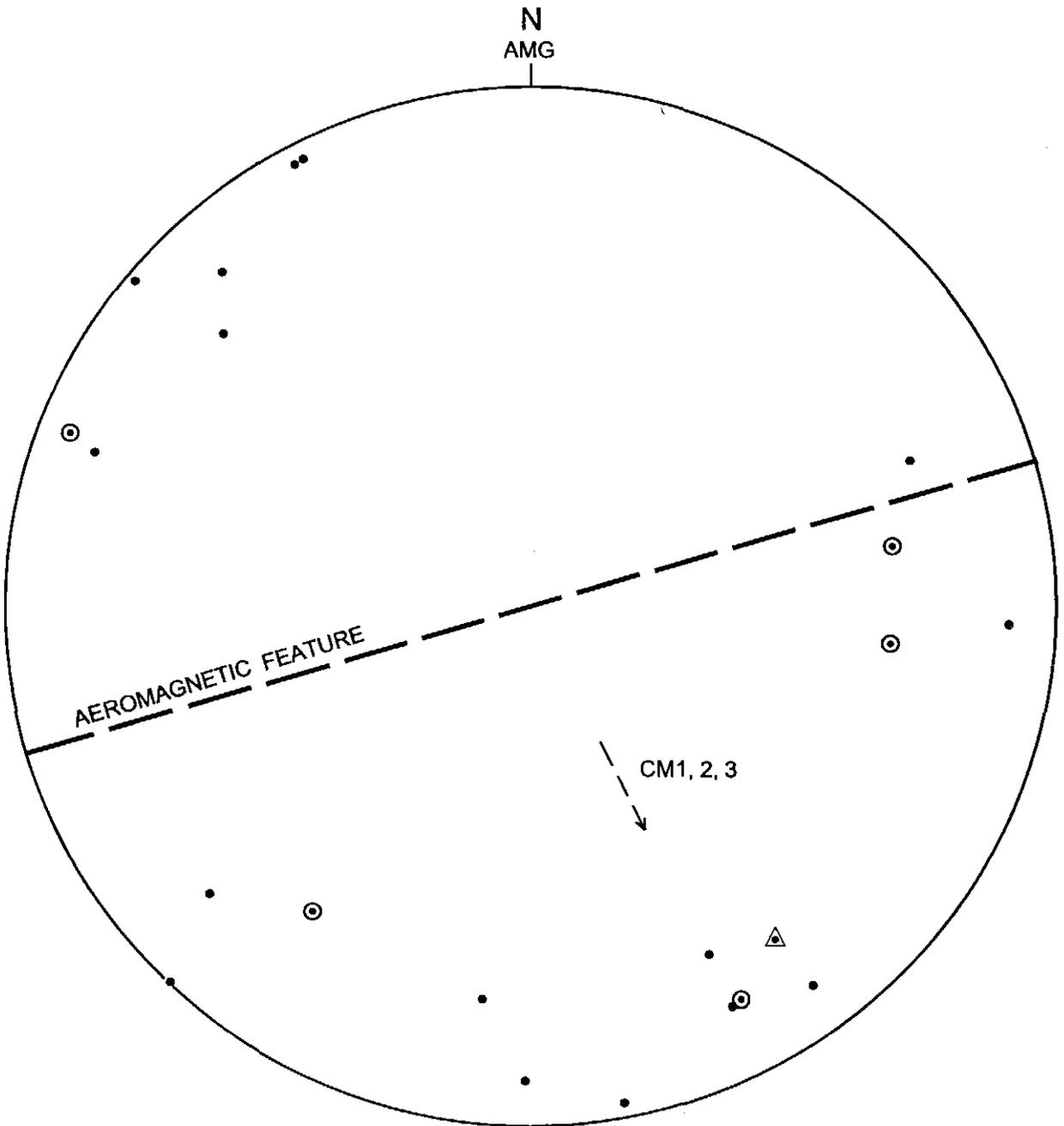
50×10^{-3} si

Anomalous soils

5 cm

	PACIFIC-NEVADA MINING PTY. LTD	
	EL 29/97 - CYGNET	
	MT. MARY MINE	
	SECTION 10 116mE	
	COMPILED : N. Turner	SCALE : 1:4000
DATE : 10/04/00		
DRAWN : G. M. Bennett	Figure No.	
OFFICE :	7	
FILE : Cygnet Section CM2		
DWG No. :		

689025



Poles to porphyry contacts

- CM1
- ⊙ CM2
- △ CM3



PACIFIC-NEVADA MINING PTY. LTD

**EL 29/97 - CYGNET
MT. MARY PROSPECT
DDH CM1, CM2, CM3
EQUAL AREA PLOT OF POLES
TO PORPHYRY CONTACTS**

COMPILED : M. Turner

DATE : 10/04/00

DRAWN : G. Bennett

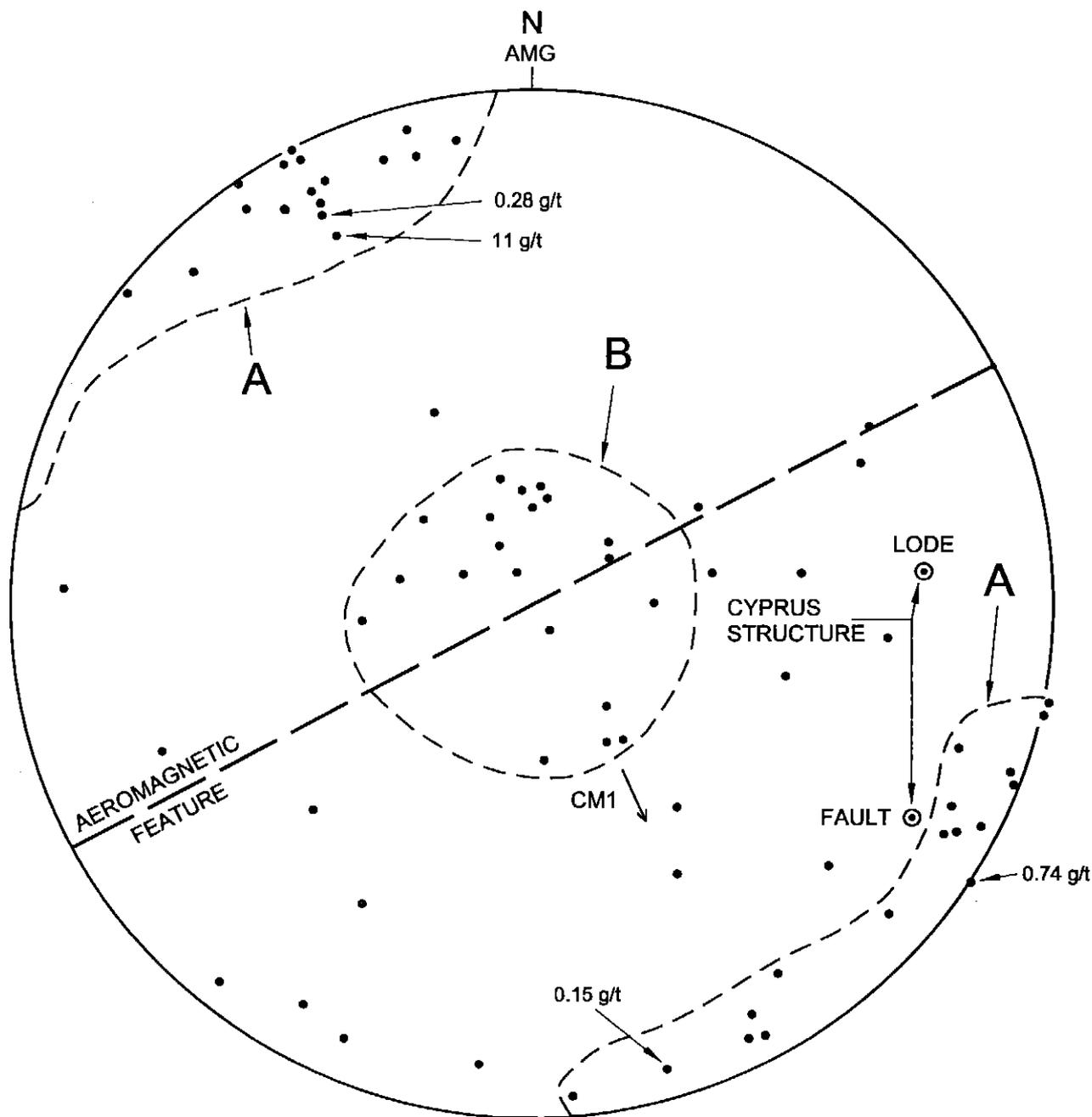
OFFICE :

FILE : Poles to Porphyry

DWG No. :

SCALE : Not To Scale

Figure No.
8



- Pole of planar fracture veinlet in dolerite at 213-262m and 350-490m.
Gold assay shown where fracture veinlet was sampled with reasonable exactness.
Cyprus structure and aeromagnetic feature from Turner (1999), Figure 4a and Appendix 2, Plan C1.

- A Steeply dipping, north east striking veinlets.
B Gently dipping veinlets.

	PACIFIC-NEVADA MINING PTY. LTD	
	EL 29/97 - CYGNET MT. MARY PROSPECT DDH CM1 EQUAL AREA PLOT OF PLANAR FRACTURE VEINLETS IN DOLERITE	
	COMPILED : M. Turner	Figure No. 9
	DATE : 21/03/00	
	DRAWN : G. Bennett	
OFFICE :		
FILE : CM1 Planar Fracs	SCALE : Not To Scale	
DWG No. :		

Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

APPENDIX 1

- A ROCK CHIP SAMPLE NUMBERS AND DESCRIPTIONS.
- B ROCK CHIP SAMPLE NUMBERS, AMG CO-ORDINATES AND ANALYTICAL DATA.

Laboratory Methods – Analabs

Dry, jaw crush, pulverize (S033); Au by 30gm fire assay, AAS finish (F630); three acid digest (G102) with Cu Pb Zn Mn As Ag Mo by AAS (A102).

Magnetic Susceptibility

Instrument: Exploranium KT-5.

Rock Chip Attributes Report

Exploration Licence: EL29/97

Rock Chip	Description	Easting (AMG)	Northing (AMG)	Magnetic Susceptibility	Area
140201	5mm planar veinlet cutting altered dolerite in western road cutting. Veinlet consists of milky to translucent quartz, disseminated black silicate and dark grey metallic mineral.	506400	5219725	Dolerite up to 15x10 ⁻³ si	Cygnets
140202	Loose fragments beside road. Probably derived from foreshore dyke. Large feldspar (abundant, to 20mm, flow aligned) porphyry with fine grained, medium green groundmass.	506890	5217815	0.2x10 ⁻³ si	Cygnets
140203	Loose fragments beside road. Probably derived from foreshore dyke. Feldspar (sparse), garnet (3-5%, to 3mm, orange), black hornblende porphyry with dark grey, fine grained, flow textured ground-mass. About 2-5% disseminated sulphide including ?galena.	506890	5217815	Up to 1.3x10 ⁻³ si	Cygnets
140204	Loose fragment behind beach. White, fine grained, ?silicified igneous rock with minor disseminated black mineral and common limonitic voids.	506880	5217890	0.08x10 ⁻³ si	Cygnets
140205	Dark grey, siliceous, hornfelsed mudstone with ?fossils recrystallised to actinolitic assemblages with thin reaction halos. Parts of matrix are paler grey=?alteration. Very little sulphide.	506800	5218095	0.2x10 ⁻³ si	Cygnets
140206	Coarse grained feldspar-magnetite vein in fine grained, fairly even grained syenite and siliceous hornfels. Crystals aligned perpendicular to vein.	506710	5218200	Up to 8x10 ⁻³ si	Cygnets
140207	Medium grey quartzite with about 10% pyrite and minor black mineral (non-magnetic).	506700	5218200	Up to 9x10 ⁻³ si	Cygnets
140208	Fine grained, cream ?silicified rock with abundant fossils, which are leached and consist of lightly limonitic, silica mesh.	506690	5218200		Cygnets
140209	Medium grained, even grained, altered dolerite with about 15% disseminated pyrrhotite.	506680	5218200	Up to 14x10 ⁻³ si	Cygnets



Rock Chip	Description	Easting (AMC)	Northing (AMC)	Magnetic Susceptibility	Area
140210	Fine grained rock with euhedral phenocrysts of pale green ?amphibole (to 3mm) and anhedral patches of dark mineral in 70% felsic groundmass. Altered dolerite.	506675	5218210	Up to 21x10 ⁻³ si (Nearby, up to 44x10 ⁻³ si	Cygnnet
140211	Magnetite pebbles collected from small detrital concentrations on the rocky shoreline.	506650	5218340		Cygnnet
140321	Medium grained diorite consisting of feldspar, abundant black hornblende and sparse feldspar megacrysts. Sparse disseminated sulphide. Secondary copper salts on some fractures. Diorite is a raft in syenite.	506545	5218525	8x10 ⁻³ si	Cygnnet
140322	Porphyry with euhedral feldspars black amphibole and rounded ?garnet in fine grained groundmass. Sparse disseminated sulphide.	506550	5218520	4x10 ⁻³ si	Cygnnet
140323	Well crystallised, medium grained feldspar rock with minor fine grained black mineral.	506550	5218520		Cygnnet
140324	Medium grained, even grained, well crystallised feldspar with 25% black hornblende. Sparse disseminated sulphide.	506550	5218520		Cygnnet
140325	Medium grained, even grained feldspar and black hornblende rock with sparse large feldspar grains.	506505	5218590		Cygnnet
140326	Coarse grained feldspar with minor medium-fine grained black hornblende.	506505	5218590	Up to 16x10 ⁻³ si	Cygnnet
140327	Fine grained porphyry with strong epidote-magnetite alteration.	506495	5218625	Up to 91x10 ⁻³ si	Cygnnet
140328	Fine grained porphyry with sparse feldspar phenocrysts. Strong epidote alteration. Limonitic patches present.	506550	5218785	Up to 60x10 ⁻³ si	Cygnnet
140790	From old diggings near Glenfern Rd(Reardon's property). Sample provided by Dennis Wallace, Cygnnet. Pale grey translucent quartz vein about 2% of well crystallised pyrite and about 3% vughy cavities lined with quartz crystals and goethite.	505600	5218650		Cygnnet

Rock Chip	Description	Easting (AMG)	Northing (AMG)	Magnetic Susceptibility	Area
7641517	Medium grey, medium grained, equigranular igneous rock consisting of quartz, feldspar with about 10% disseminated patches of magnetite and about 1% disseminated sulphide.	506600	5218950		Cygnets
7641518	Olive, hornfelsed pebbly mudstone cut by 12mm vein of medium grained feldspar, minor quartz and about 5% disseminated magnetite.	507340	5219250		Cygnets
7641519	Medium green-grey, fine grained hornfelsed pebbly mudstone. Common clasts recrystallised to actinolitic assemblages. Clasts of moderately rounded vein quartz also present. Very thin sulphide (pyrrhotite) veinlets in fractures.	507175	5219250		Cygnets

ROCK CHIP ANALYSIS REPORT

Exploration Licence: EL29/97

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	Pi	
			Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm																							
			Detection Limit	0.01	0.01	4	5	4	2	100	1																							
			Method	F630	F630	A104	A104	A104	A104	A104	H104																							
7641517	506600	5218950	-0.01	-		199	9	131	3	-100	7																							
7641518	507340	5219250	-0.01	-		14	27	194	3	-100	9																							
7641519	507175	5219250	-0.01	-		4	14	83	3	-100	7																							
140201	506400	5219725	-0.01	-0.01		22	5	13	-1	-50																	10							
140202	506890	5217815	0.11	-9000		7	50	36	-1	-50																	7							
140203	506890	5217815	0.29	0.26		12	3800	2750	-1	-50																	9							
140204	506880	5217890	0.18	-9000		6	23	23	-1	-50																	-5							
140205	506800	5218095	0.27	0.35		16	10	47	-1	-50																	-5							
140206	506710	5218200	0.1	-9000		13	17	44	-1	-50																	-5							
140207	506700	5218200	0.11	-9000		193	4	26	-1	-50																	-5							
140208	506690	5218200	-0.01	-9000		11	9	13	-1	-50																	6							
140209	506680	5218200	0.03	-9000		180	-3	49	-1	-50																	-5							
140210	506675	5218210	0.04	0.06		90	7	117	-1	-50																	-5							
140211	506650	5218340	-0.01	-9000		70	83	68	-1	-50																	11							
140321	506545	5218525	-0.01	-9000		446	6	87	-1	-50																	-5							
140322	506550	5218520	-0.01	-9000		113	33	144	-1	-50																	-5							
140323	506550	5218520	-0.01	-9000		186	24	55	-1	-50																	-5							
140324	506550	5218520	-0.01	-9000		306	-3	83	-1	-50																	-5							
140325	506505	5218590	-0.01	-9000		57	6	91	-1	-50																	-5							
140326	506505	5218590	-0.01	-9000		59	6	30	-1	-50																	-5							
140327	506495	5218625	-0.01	-0.01		101	10	92	-1	-50																	-5							
140328	506550	5218785	-0.01	-9000		216	71	245	-1	-50																	-5							
140790	505600	5218650	0.14	0.14		43	3340	35	23	-50																	642							

Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

APPENDIX 2

DESCRIPTIONS OF INTERVALS IN DDH CM-1 WITH Au \geq 0.1ppm.

Project: Cygnet

Prospect: Mt Mary Mine

Exploration Licence: EL29/97

Hole Number: CM-1

Interval (m)	Sample	Au (ppm)	Anomalous	Description
025.00-026.00	140019	00.17	Pb 0.67% Zn 0.189%	Porphyry, core very broken
028.00-029.00	140022	00.14	Pb 335ppm Zn 494ppm	Clay and relict porphyry
044.00-045.00	140038	00.23	Pb 528ppm Zn 0.1125%	Tillite, core very broken. Scattered veinlets of white, translucent mineral
067.00-068.00	140061	00.43		Tillite with 1-8mm fracture veinlets of po and quartz-calcite. Minor pale grey alteration (?silica) adjacent some fractures.
075.00-076.00	140069	00.10	Zn 0.1505%	Tillite with 1-3mm fracture veinlets of po and ?quartz-calcite-later po. Thin pale alteration adjacent fractures.
146.70-148.00	140141	00.37	Cu 205ppm	Large feldspar (sparse, to 15mm), black hornblende porphyry with very fine grained, olive groundmass. Possibly lamprophyre. Strongly fractured with anastomosing veinlets of minor quartz and common, very thin sulphide. Substantial pale alteration of groundmass.
199.60-199.70	140197	00.93	Cu 282ppm Zn 716ppm	Porphyry with strong, disseminated epidote and sulphide alteration. Cut by veinlets of pyrite.
199.70-199.90	140198	04.50	Cu 0.235% Zn 0.351% Ag 3ppm	Substantial vein at porphyry-dolerite contact. Vein contains approx. 50% sulphide and black mineral plus fine grained silicates.
199.90-200.01	140199	00.23	Cu 443ppm Ag 1ppm	Passage into fine grained dolerite. Sulphide disseminated and in veinlets. Some actinolite-sulphide veinlets have adjacent pale, then dark alteration. White veinlet on one fracture.
200.01-201.00	140200	00.13		Dolerite with patchy disseminated sulphide 2-10%. Common very thin actinolite fracture veinlets, a few with sulphide.
202.00-203.00	140213	00.23		Dolerite with about 1% disseminated sulphide, and actinolite fracture veinlets. Zoned alteration centred on 8mm actinolite-py veinlet at 202.15. Veinlet bounded by fine grained, dark alteration, then coarse grained alteration. Latter consists of blades and clusters of green amphibole (?actinolite) in a fine grained felsic groundmass.
203.79-203.88	140215	00.14	Cu 286ppm	Dolerite. Zoned alteration centred on 5mm actinolite-sulphide veinlet at 203.84. Veinlet bounded by epidote-sulphide, then fine grained dark alteration, then coarse grained alteration.
203.88-204.25	140216	00.11		Dolerite with substantial coarse grained alteration and about 3-5% disseminated sulphide. Scattered actinolite and actinolite-sulphide veinlets.

Project: Cygnet

Prospect: Mt Mary Mine

Exploration Licence: EL29/97

Hole Number: CM-1

Interval (m)	Sample	Au (ppm)	Anomalous	Description
204.25-204.37	140217	00.17	Cu 540ppm	Dolerite with many actinolite-sulphide and sulphide veinlets. Fine grained dark alteration at margins.
204.37-205.15	140218	00.16		Dolerite similar 140217.
205.15-205.25	140219	00.76	Cu 528ppm	Dolerite similar 140217. About 3% disseminated sulphide.
211.00-212.00	140226	00.21		Dolerite with substantial coarse grained alteration and 1-3% disseminated sulphide. Zoned alteration centred on 8mm actinolite-sulphide veinlet at 211.9, with minor fine grained dark alteration at margins, then coarse grained alteration. Late, median carbonate veinlet.
213.00-214.00	140228	00.12		Dolerite with several 1-2mm sulphide-actinolite-minor quartz veinlets 213.2-213.4, with dark marginal alteration.
223.00-223.30	140241	00.11	Cu 331ppm	Large feldspar (abundant, to 20mm. flow aligned), black hornblende porphyry with very fine grained, dark grey groundmass. Cut by epidote-po fracture veinlets. Disseminated epidote alteration, also pale alteration of groundmass.
248.30-248.53	140273	11.00	Cu 0.315% Ag 5ppm	Dolerite with 100mm vein of mainly fine grained dark silicate alteration with epidote, actinolite, minor sulphide, possibly substantial mt. Minor late, honey-coloured mineral.
259.00-260.00	140285	00.11		Dolerite with substantial coarse grained alteration and common actinolite veinlets. Not much sulphide.
260.00-261.00	140286	00.17		Dolerite similar 140285. Zoned alteration centred on 10mm actinolite-sulphide veinlet at 260.65 with a few cm of adjacent fine grained dark alteration, then 20mm of coarse grained alteration.
265.00-266.00	140292	00.10		Large feldspar (sparse, to 15mm), black hornblende porphyry with very fine grained groundmass. Common disseminated epidote and sulphide alteration with a few epidote-po veinlets. About 1-3% sulphide overall. Groundmass altered to pale grey and pale pinkish grey.
268.30-269.50	140295	00.39		Porphyry similar 140292. Very broken core.
271.00-272.00	140298	00.34		Seriate feldspar (common, to 15mm), black hornblende porphyry with very fine grained, medium greenish-grey groundmass. Common disseminated epidote and sulphide alteration with a few very thin epidote and epidote-sulphide veinlets. About 10% sulphide overall.

Project: Cygnet

Prospect: Mt Mary Mine

Exploration Licence: EL29/97

Hole Number: CM-1

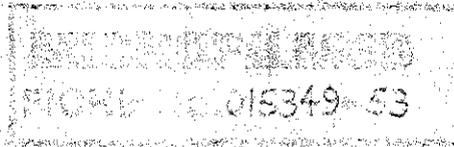
Interval (m)	Sample	Au (ppm)	Anomalous	Description
275.80-276.24	140303	00.21		Porphyry similar 140298 with several epidote-sulphide veinlets, late thin calcite veinlet. Pale alteration of groundmass is fracture related.
277.00-278.00	140305	00.10		Porphyry similar 140298 passing to dolerite with substantial coarse grained alteration.
284.00-285.00	140313	00.10		Dolerite with particularly coarse grained alteration. Blades and clusters of green amphibole to 15mm, white feldspar to 5mm, all in fine grained pink groundmass. Disseminated mt to 3mm, not much sulphide. Common actinolite-minor sulphide veinlets.
300.00-301.00	140338	00.14		Medium grained dolerite with patches of coarse grained alteration and <1% disseminated sulphide. Several sets of actinolite-sulphide veinlets.
306.28-306.80	140344	00.15		Medium grained dolerite with scattered actinolite fracture veinlets. Late 6mm calcite-minor sulphide veinlet in same fracture as actinolite veinlet at 306.7.
342.96-343.13	140487	00.19		Dolerite with compound fracture vein consisting several cm of epidote-calcite-py against 10mm actinolite, then 20mm of coarse grained alteration.
355.95-356.08	140490	00.28	Cu 442ppm	Dolerite with 20mm fracture vein of sulphide, mt, actinolite with 20mm of adjacent coarse grained alteration. Late 1mm calcite veinlet in same fracture.
404.40-405.00	140360	00.12		Dolerite with substantial coarse grained alteration and irregular patches of very fine grained, dark grey porphyry. Less than 1% sulphide.
422.16-422.30	140381	02.00	Cu 0.484% Ag 5ppm	Dolerite with 5-10mm py-actinolite fracture veinlet with weak, zoned alteration adjacent. Several <1mm sulphide veinlets.
422.30-422.53	140382	00.86	Cu 406ppm Ag 1ppm	Dolerite with coarse grained alteration and fracture veinlets. Sample crosses porphyry margin. Not much sulphide.
446.15-446.30	140413	00.12		Dolerite containing 15mm py-actinolite-quartz fracture veinlet with adjacent coarse grained alteration.
451.88-452.40	140420	00.74	Cu 289ppm	Dolerite with 30mm sulphide-actinolite-quartz vein at 452. Other sulphide veinlets present. Sample crosses to altered porphyry with sulphide veinlets near 452.4.
480.00-481.00	140452	00.15		Dolerite with a little coarse grained alteration. Scattered actinolite veinlets. Less than 1% disseminated sulphide.
510.55-510.72	140484	00.16	Cu 282ppm	Dolerite with 10mm py-actinolite-quartz veinlet against a quartz vein.
516.75-516.95	140485	00.78	Cu 402ppm	Dolerite with 8mm py-?mt-quartz veinlet and several 1-2mm sulphide veinlets.

008037

PACIFIC-NEVADA MINING PTY LTD
Level 11, St Georges Square, 225 St Georges Terrace
Perth, Western Australia



EL29/97 CYGNET
INTERIM REPORT TO 31.03.2000



Volume 2 of 3

Appendix 3
Drill logs DDH CM1

00_4436

Interim Report to 31.03.2000 - EL29/97 - Cygnet
Pacific-Nevada Mining Promontory Limited, Turner Ge
Turner, N.J. EL29/97

Prepared by N.J. Turner Geological Services Pty Ltd
65 Lochner St, West Hobart, Tasmania 7000

5th April 2000

639033

PACIFIC-NEVADA MINING PTY LTD
Level 11, St Georges Square, 225 St Georges Terrace
Perth, Western Australia

EL29/97 CYGNET
INTERIM REPORT TO 31.03.2000

Volume 2 of 3

Appendix 3
Drill logs DDH CM1

Prepared by N.J.Turner Geological Services Pty Ltd
65 Lochner St, West Hobart, Tasmania 7000

5th April 2000

Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

APPENDIX 3

LOGS FOR DIAMOND DRILL HOLE CM-1

HOLE DETAILS
BORE HOLE SURVEYS
CORE ORIENTATION
GEOLOGICAL LOG & MAGNETIC SUSCEPTIBILITY
ANALYTICAL DATA
PHOTOGRAPHIC RECORD

Laboratory Methods – Analabs

Dry, jawcrush, pulverize (S033); Au by 30gm fire assay, AAS finish (F630); three acid digest (G102) with Cu Pb Zn As Ag Mn Mo by AAS (A102)

Magnetic Susceptibility

Instrument: Exploranium KT-5. Average of measurements at top, middle and bottom of 1m intervals. Corrected for core size.

DRILL LOG COVER SHEET

Project: Cygnet **Exploration Licence:** EL29/97

Prospect: Mt Mary Mine **Hole Number:** CM-1

Co-ordinates AMG: E 505405 N 5220620 **Logged by:** Nic Turner

RL Collar: 81mASL

Azimuth: 152deg AMG

Inclination: -50deg

Depth: 553.9m

Hole Size:

	FROM	TO
HQ	7.5m	95m
NQ	95m	553.9m

Commenced: 02 November 1999

Completed: 24 January 2000

Drillers: Oil Mineral Exploration Drilling Pty Ltd

Drill Type: LM75

Comments: A very difficult hole because of:
 1:Unreliable hydraulic system in rig,2:Underground rig that was difficult to anchor on surface,3:Poor initial set-up of hole,casing cemented,4:Rig was chosen because of its low noise output.Good from this point of view.

Very bad intervals of ground 0-35m. HW casing to 36m. Lost water return completely by 190m.

Note: Collar co-ordinates and RL determined from plotted position of collar on orthophoto map 1:5000, Cygnet 52. Lands Dept., Hobart, 1983.

BORE HOLE SURVEYS

Project: Cygnet Prospect: Mt Mary Mine EL: EL29/9 Hole Number: CM-1

Depth	Inclination (deg)	Azimuth (deg AMG)	Equipment Used
000	50	152	Ausmine Single Shot Camera
060	50	151	Ausmine Single Shot Camera
150	52	151	Ausmine Single Shot Camera
217	53	157	Ausmine Single Shot Camera
253	53	157	Ausmine Single Shot Camera
350	52	162	Ausmine Single Shot Camera
450	49.9	167	Ausmine Single Shot Camera
500	48.1	169.5	Ausmine Single Shot Camera
550	47	171	Ausmine Single Shot Camera

Drilling Core Orientation Report

Project: Cygnet **Prospect:** Mt Mary Mine **EL:** EL29/97 **Hole Number:** CM-1
Method: Spear and Crayon

OM Depth (m)	Interval (m) From	Interval (m) To
218	208	239.4
253.5	239.4	262.36
352.8	349.8	356.15
376.8	356.15	378.8
397.8	378.8	411.4
427.3	423.5	433.6
	435.6	444.3 approx orientation
445.5	444.3	452
470.8	469.7	470.8
491.4	490.5	491.6
536.8	534.6	539.5
553.3	553.2	553.3

Presentation in core trays:

1. A drillers' block (marked OM) indicates the position of the orientation mark in the core tray. The orientation marks are in red crayon.
2. For oriented intervals in uncut core, the bottom line is marked on the core.
3. For oriented intervals in cut core, the top line corresponds to the right hand edge of the cut surface when viewed down hole.

GEOLOGICAL LOG

639043

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
1					0-59: Weathering. 0-7.5: Precollar, no core. 7.5-38: Much relatively fresh rock though core generally broken with common limonitic coatings on fractures; very difficult drilling in soft weathered material at around 16 and 26; largely decomposed to clay at 26.8-29.6. 38-59: Core broken with local decomposition to clay, but limonitic coatings on fractures generally absent.
2					
3					
4					
5					
6					
7	7.5	11.8	100	12.61	7.5-8.0: Black hornblende (abundant, to 5mm) porphyry with medium grey, fine grained groundmass. Lamprophyre.
8				8.96	8.0-16.5: Small feldspar (abundant, to 10mm), subordinate black hornblende (to 3mm) porphyry with medium grey ground mass. Common epidote alteration of feldspars.
9				4.87	
10				4.35	
11	11.8	12.4	66	5.67	
12	12.4	14.1	50	4.71	
13				2.88	
14	14.1	15.4	58	NO SAMPLE	
15	15.4	18.4	75	5.37	

Project: Cygnet **Exploration Licence:** EL29/97

Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
16				NO SAMPLE	16.05-17.0: Drillers cement and very broken core of porphyry.
17				.71	17.0-20.5: Black hornblende porphyry. Lamprophyre.
18	18.4	21.40	60	.94	
19				.43	
20				.99	20.5-26.0: Small feldspar porphyry as above. Also olive porphyry with sparse feldspar phenocrysts. Core very broken.
21	21.40	24.40	53	6.50	
22				.46	
23				3.86	
24	24.40	27.40	50	NO SAMPLE	
25				NO SAMPLE	
26				NO SAMPLE	26.0-29.6: Largely altered to clay, some relict small feldspar porphyry. Limonitic fractures at 29.6m. Soft, greenish-cream mineral on some fractures.
27	27.40	29.00	69	NO SAMPLE	
28				.33	
29	29.00	30.40	64	.16	29.6-34.8: Tillite. Dark grey, pebbly-sandy-silty mudstone with clasts of milky quartz, quartzose sandstone, siltstone and phyllite. A small proportion of clasts are recrystallized with thin halos of alteration (pale) in the surrounding matrix.
30	30.40	31.40	75	.17	
31	31.40	32.40	90	.17	
32	32.40	33.40	90	.18	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
33	33.40	34.70	92	.21	
34	34.70	35.40	90	.23	34.8-35.2: Brecciated and ?sheared tillite.
35	35.40	36.40	90	.18	35.2-35.6: Cream clay.
36	36.40	37.90	100	.21	35.6-35.8: More breccia.
37	37.90	39.4	90	.21	35.8-38.0: Tillite. Fairly coherent.
38				.24	38.0-49.5: Tillite. Small proportion of recrystallized clasts. Core very broken 41.1-43.2, 43.8-45.4, 47-49.5. Scattered veinlets of white, translucent, crystalline mineral at 44-45. Note: Marked change in style of weathering at 38m. Limonite coating on fractures common above 38m, but uncommon below.
39	39.4	40.9	90	.23	
40	40.9	42.4	40	.26	
41				.27	
42	42.4	45.4	90	.16	
43				.16	
44				.22	
45	45.4	48.4	90	.24	
46				.23	
47				.22	
48	48.4	51.4	60	.19	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
49				.28	49.5-56.5: Tillite. Core very broken. Breccia intervals and slickensided shears.
50				.16	
51	51.4	54.4	90	.22	
52				.23	
53				.26	
54	54.4	57.2	95	NO SAMPLE	
55				.21	
56				.21	56.5-59.0: Tillite. Strongly sheared with cataclastic fabric 20deg to core axis.
57	57.2	60.4	95	.31	
58				3.72	
59				.27	59.0-62.8: Tillite. More coherent with localized shearing, often at 20deg to core axis.
60	60.4	63.4	95+	.25	
61				.29	
62				.33	62.8-70.5: Tillite. Coherent with discrete shears 20deg-40deg to core axis. Clasts angular to rounded, up to 5cm across. Mainly quartzose sandstone, also dark grey siltstone and a few of coarse grained granitoid. A small proportion of clasts comprise recrystallized actinolite-pyrrhotite (po) assemblages. Minor, pale grey silica alteration adjacent some fractures at 67-68, which contain thin quartz-calcite veinlets. Also, several 1-8mm po veinlets.
63	63.4	66.4	100	.30	
64				.30	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
65				.60	
66	66.4	69.4	100	.36	
67				.37	
68				.49	
69	69.4	72.4	100	.37	
70				.17	70.5-71.2: Large feldspar, black hornblende porphyry with khaki groundmass showing patchy, pale alteration. 5-10% sulphide.
71				.47	71.2-73.1: Tillite. Thin green silicate-sulphide seam at 71.7m.
72	72.4	75.4	100	.35	
73				.35	73.1-74.1: Large feldspar, black hornblende porphyry with pale ground mass and 5-10% sulphide. Bleached tillite at contacts.
74				.62	74.1-77.4: Tillite. Scattered recrystallised clasts with pale halos. 5mm po veinlet at 74.5m. Carbonate and po in veinlet at 75.05m. Very thin zones of pale alteration adjacent some fractures at 75-76. Calcite-?quartz-po and po veinlets also at 75-76.
75	75.4	78.4	100	.80	
76				.33	
77				.30	77.4-78.6: Large feldspar (common) porphyry with very fine grained grey-fawn ground mass. Partial sulphide replacement of feldspars. Scattered, very thin sulphide veinlets.
78	78.4	81.4	105	.61	78.6-79.5: Tillite. Scattered recrystallised clasts with halos.
79				.49	79.5-82.3: Mainly large feldspar porphyry. Mafic porphyry interval.
80				4.4	
81	81.4	84.4	100	8.9	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
82				.72	82.3-84.7: Tillite. Scattered recrystallised clasts with halos. Unusually large (200mm) granitic clast at 82.5m.
83				.27	
84	84.4	87.4	100	.53	84.7-92.4: Large feldspar porphyry with flow alignment. A little epidote alteration. Cross cutting zoned porphyry 87.85-88.20m.
85				1.97	
86				1.82	
87	87.4	90.4	105	4.28	
88				3.82	
89				.99	
90	90.4	93.4	100	.62	
91				.73	
92				3.34	92.4-96.2: Tillite. Scattered recrystallised clasts with halos. Quartz-carbonate veinlets 94m, 94.75m.
93	93.4	95.0	100	.32	
94				.32	
95	95.0	96.7	100	.26	
96	96.7	99.8	100	.32	96.2-96.8: Small-feldspar porphyry.
97				.29	96.8-117.05: Tillite. Clasts of milky quartz, quartzose sandstone, fine grained felsic porphyry, dark grey siltstone, rare gneiss, a few of granitoid. Recrystallized clasts with actinolite-sulphide assemblages more common eg 110.5m. Scattered thin veinlets of chlorite-epidote-sulphide throughout.
98				.13	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
99	99.8	102.8	98	.28	
100				.25	
101				.23	
102	102.8	105.9	100	.32	
103				.29	
104				.23	
105	105.9	109.6	83	.29	
106				.26	
107				.21	
108				.28	
109	109.6	112.7	100	.27	
110				.30	
111				.35	
112	112.7	115.7	100	.42	
113				.40	
114				.41	
115	115.7	118.7	75	.53	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
116				.56	
117				21.7	117.05-121.95: Distinctive, large-feldspar (abundant, to 20mm), black hornblende porphyry with medium grey, fine grained groundmass. Strong flow alignment parallel contacts. Pyrite veinlets and epidote alteration near bottom contact.
118	118.7	120.4	88	7.58	
119				12.3	
120	120.4	121.8	105	11.2	
121	121.8	124.8	98	18.9	121.95-130.6: Sandy, silty mudstone with no pebbles. Dark grey. Consistent fissility at 50deg to core axis. Sulphide on fissility partings and in scattered, very thin, cross-cutting veinlets.
122				.47	
123				.66	
124	124.8	127.4	98	.87	
125				1.13	
126				.57	
127	127.4	130.8	85	.84	
128				.71	
129				.74	
130	130.8	133.8	73	.60	130.6-139.9: Similar mudstone with small pebbles and granules. Fissility persists to 135.8m. Scattered recrystallized pebbles. Common very thin sulphide veinlets, notably at 134.7-135.2.
131				.53	
132				.38	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
133	133.8	136.8	95	.52	
134				.58	
135				.49	
136	136.8	139.4	100	.44	
137				.64	
138				.85	
139	139.4	140.8	100	6.87	139.9-142.5: Large feldspar (abundant, to 15mm), subordinate black hornblende porphyry with medium greenish-grey, fine grained groundmass. Feldspars locally flow aligned. About 10% py replacing feldspars and in very thin veinlets. Local silicification of porphyry and pale alteration of tillite at top of contact.
140	140.8	142.8	100	.65	
141				.18	
142	142.8	145.8	100	7.78	142.5-144.5: Dark grey, sandy, silty mudstone with fissility at 50deg to core axis. Scattered, very thin sulphide veinlets with associated narrow bands of pale alteration.
143				.86	
144				.59	144.5-146.65: Tillite. Similar veinlets.
145	145.8	148.8	97	.88	
146				.43	146.65-150.60: Large feldspar (sparse, to 15mm) porphyry with fine grained, medium green-grey ground mass. Minor epidote alteration. Numerous fractures with associated pale alteration and containing very thin pyrite and py-minor quartz veinlets.
147				.33	
148	148.8	151.6	100	1.61	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
149				.96	
150				.55	150.6-154.6: Sandy, silty mudstone passing to tillite. Sparse very thin sulphide veinlets. Chlorite-epidote veinlet at 152.2.
151	151.6	154.0	100	.60	
152				.54	
153				.59	
154	154.0	157.0	93	13.64	154.6-157.8: Large-feldspar (common, to 30mm), subordinate black hornblende porphyry with fine grained, medium greenish-grey groundmass. Minor epidote. About 1% sulphide-disseminated.
155				70.00	
156				56.37	
157	157.0	159.5	100	64.71	157.8-158.5: Tillite.
158				2.14	158.5-159.66: Small-feldspar (to 10mm), black hornblende porphyry with common epidote alteration. Pale alteration of tillite at top contact.
159	159.5	162.5	96	2.49	159.66-173.4: Tillite. Many clasts recrystallised to actinolite-epidote-po assemblages, with pale halos. Scattered fractures with early, irregular silica alteration and later chlorite-actinolite-po veinlets.
160				.44	
161				.22	
162	162.5	163.8	88	.33	
163	163.8	166.8	102	.59	
164				.59	
165				.28	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
166	166.8	169.8	100	.26	
167				.18	
168				.61	
169	169.8	172.8	100	.39	
170				.16	
171				.17	
172	172.8	175.8	100	.14	
173				.24	173.4-173.9: Strongly altered porphyry, but with sharp top and bottom contacts. Very fine grained, cream, siliceous ground-mass around patches of actinolite-epidote-po. Virtually no sulphide veinlets.
174				.20	173.9-177.8: Tillite. Common recrystallised clasts with mafic assemblages. Irregular patches of pale alteration cut by actinolite-?chlorite-minor py veinlets. Altered porphyry 177.25 to 177.35.
175	175.8	177.8	100	.19	
176				1.04	
177	177.8	178.40	99	2.50	177.8-178.4: Tillite. Core very broken. Py on fractures.
178	178.40	179.8	99	.76	178.4-182.25: Tillite. Clasts are mostly quartzose and tending to homogenize with matrix due to thermal metamorphism. Not much fracturing or sulphide.
179	179.8	181.2	100	.19	
180				.21	
181	181.2	183.3	98	.35	
182				1.06	182.25-183.8: Small feldspar, black hornblende porphyry. Epidote disseminated and along fractures.

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-1

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
183	183.3	184.8	98	1.46	183.8-184.05: Tillite. Clasts difficult to see - homogenisation.
184	184.8	187.8	100	4.75	184.05-189.1: Small feldspar, black hornblende porphyry. Common epidote disseminated and along fractures. Pale grey, altered ground mass. Uncommon, very thin sulphide veinlets cut the epidote alteration.
185				5.92	
186				1.29	
187	187.8	189.3	100	.84	
188				.64	
189	189.3	190.8	93	.70	189.1-190.05: Metasediment. Dark grey, fine grained, homogeneous.
190	190.8	193.8	100	1.23	190.05: Dolerite contact at 45deg to core axis.
191				.68	190.05-190.54: Very fine grained dolerite with 3-4mm ferromagnesian phenocrysts. Disseminated epidote alteration. Other alteration locally zoned on fractures containing actinolite-?chlorite-po veinlets with outer pale zone (?silicification) and inner dark zone all at 45deg to core axis.
192				10.05	190.54-192.9: Fine grained dolerite with common dark, actinolite veinlets.
193	193.8	195.8	110	37.60	192.9-194.25: Large-feldspar (sparse, to 15mm), black hornblende porphyry with euhedral, bluish-green laths of ?pyroxene in very fine grained cream groundmass.
194				11.28	194.25-199.0: Fine grained dolerite with disseminated sulphide (?po) and scattered, thin veinlets of actinolite-sulphide (eg 195.55) and actinolite-sulphide (eg 198.95). Dark alteration of dolerite adjacent some veinlets.
195	195.8	196.8	83	31.02	
196	196.8	199.3	87	1.03	
197				1.89	
198				6.00	

Project: Cygnet

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
199	199.3	200.3	100	85.00	199.0-199.7: Small feldspar (sparse, to 8mm), black hornblende porphyry with pale blue-green?pyroxene. Very fine grained, cream (altered) groundmass to 199.6m, which passes to medium green-grey in colour. Large irregular patches of epidote and sulphide. Veinlets of py eg. 199.6-199.7.
200	200.3	202.8	100	1.5	199.7-199.9: Consists of about 50% by volume of sulphide, including minor chalcopyrite, together with magnetite, earthy dark minerals, actinolite and ?chlorite. Crude alignment 40deg to core axis.
201				2.94	199.9-200.0: Dolerite. Dark grey, fine grained, with irregular epidote-pyrite veinlets and disseminated sulphide.
202	202.8	205.8	105	1.16	200.0-218.53: Dolerite. Fine grained to medium grained with relatively coarse grained patchy, alteration to assemblages consisting of coarse and medium grained green ?amphibole clusters in medium grained felsic groundmass with disseminated sulphide & mt. Patches of this alteration become common after 203.7m. Margins of the altered patches may be relatively sharp, and parallel to contained, planar actinolite-sulphide veinlets eg 207.65m. At 202.15 an 8mm actinolite-sulphide veinlet is bounded by zones of dark silicate alteration, then by zones of coarse grained alteration. Similar zoning centred on actinolite-sulphide veinlet at 211.9.
203				.77	
204				.79	
205	205.8	208.0	97	1.28	
206				.85	
207				1.77	
208	208.0	211.8	98	8.53	
209				11.90	
210				1.47	
211	211.8	214.8	100	.83	
212				1.10	
213				1.60	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
214	214.8	217.8	99	1.85	
215				1.61	
216				3.10	
217	217.8	218.9	100	5.45	
218	218.9	219.4	100	6.86	218.53-220.0: Feldspar (abundant), black hornblende porphyry with dark grey groundmass showing patchy, pale alteration. Feldspars flow aligned. Disseminated epidote alteration, much of it in feldspars. Fracturing less regular than in dolerite, with veinlets containing epidote. ?chlorite, minor actinolite and sulphide (po).
219	219.4	220.8	98	3.65	
220	220.8	223.8	100	3.68	220.0-222.53. Dolerite with patchy, 'coarse grained' alteration. At least two sets of planar veinlets.
221				8.85	
222				.43	222.53-223.05: Porphyry. Strongly altered with cream and pale grey silicification of groundmass and phenocrysts. Epidote in disseminated patches cut by green silicate-sulphide (po) veinlets. A little disseminated sulphide.
223	223.8	226.8	101	9.4	223.05-224.0: Large-feldspar (abundant, to 20mm), black hornblende porphyry. Feldspars flow aligned. Disseminated epidote alteration. Also, epidote-sulphide veinlet.
224				11.4	224.0-234.2: Dolerite. Numerous planar fracture veinlets and common patches of 'coarse-grained' alteration. At least two sets of veinlets with actinolite-po and po.
225				4.53	
226	226.8	229.8	95	12.53	
227				27.3	
228				12.7	
229	229.8	232.8	100	13.7	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
230				5.5	
231				25.25	
232	232.8	235.8	100	39.8	
233				45.6	
234				55.4	234.2-235.78: Porphyry. Strong pale grey to dark grey silicification. Feldspars not discernible, black amphibole not much affected. Epidote with pyrrhotite in patches up to 30mm. Not regularly fractured like the dolerite.
235	235.8	238.8	102	54.2	235.78-236.52: Dolerite. Common planar fracture veinlets and 'coarse-grained' alteration eg 236.1: Good example of zoning adjacent 10mm actinolite-sulphide (po) veinlet with 10mm of fg dark alteration passing out into 'coarse grained' alteration with disseminated sulphide.
236				35.7	236.52-239.5: Small-feldspar (common), black amphibole porphyry with very fine grained, dark grey groundmass. Common epidote patches.
237				61.5	
238	238.8	239.7	90	65.4	
239	239.7	241.4	94	45.5	239.5-241.125: Dolerite. Mostly showing 'coarse-grained' alteration. Common planar fracture veinlets with actinolite-sulphide-magnetite. At 240.8m actinolite-sulphide veinlets cut epidote alteration.
240				57.7	241.125-241.4: Core (porphyry) probably misplaced from 243.25.
241	241.4	242.7	100	68.3	241.4-242.9: Tiny feldspar, tiny black hornblende porphyry with very fine grained, dark grey groundmass.
242	242.7	244.8	100	57.0	242.9-245.15: Feldspar, black hornblende porphyry with fine grained, medium grey groundmass. Epidote alteration related to very thin sulphide-epidote fracture veinlets.
243				46.3	
244	244.8	246.4	100	41.6	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
245				38.2	245.15-263.6: Dolerite. Substantial 'coarse-grained' alteration. Common thin actinolite veinlets, some with sulphide. At least two sets. Several small intervals of epidote alteration. Sulphide veining notable at 248.3-248.53 with po, ?minor cp, minor mt, epidote, quartz and actinolite. Compound veinlets at 261.7m with actinolite-sulphide-?mt and later veinlet of soft, honey-coloured, non-carbonate. Nice 10cm interval of alteration centred on 10mm actinolite minor sulphide veinlet at 260.65, bounded by dark alteration then coarse grained alteration.
246	246.4	247.8	89	22.21	
247	247.8	250.4	100	18.9	
248				13.6	
249				7.1	
250	250.4	253.6	100	8.3	
251				3.77	
252				10.7	
253	253.6	256.6	100	3.5	
254				5.9	
255				6.8	
256	256.6	259.5	100	4.7	
257				2.7	
258				16.6	
259	259.5	262.6	100	6.8	
260				6.8	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
261				1.5	
262	262.6	264.5	100	6.1	
263				4.9	263.6-269.4: Small feldspar (to 10mm). Porphyry. Altered with feldspars ranging through ghost outlines to uniform cream to pink, very fine grained groundmass. Common epidote alteration. About 1% disseminated sulphide. A few, thin epidote-sulphide veinlets. Eg 265-266.
264	264.5	265.5	98	2.9	
265	265.5	266.7	90+/-	8.64	
266	266.7	267.3	50+/-	28.39	
267	267.3	268.0	50+/-	11.12	
268	268.0	269.4	40+/-	18.1	
269	269.4	270.8	70	9.3	269.4-269.8: Dolerite. 'Coarse-grained' alteration passing to breccia of quartz-actinolite-minor sulphide-minor mt.
270	270.8	271.8	130	10.84	269.8-277.2: Feldspar (abundant, seriate, to 15mm), black hornblende porphyry with very fine grained, groundmass showing patchy pale alteration. Intervals with irregular epidote-sulphide veinlets, also calcite veinlets. Epidote-?chlorite-sulphide veinlets near bottom contact. Pale alteration of parts of ground mass-related to fractures.
271	271.8	274.8	100	13.72	
272				14.37	
273				11.85	
274	274.8	277.8	95	5.69	
275				11.54	
276				16.38	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
277	277.8	279.3	113	2.71	277.2-297.0: Dolerite. Substantial 'coarse-grained' alteration. Particularly well developed at 284.3-285.7 with well crystallised mt and minor sulphide. Very common thin planar fracture veinlets with actinolite-sulphide throughout. Vughy calcite veinlets 278.74-280.2m.
278				3.03	
279	279.3	280.8	76	4.6	
280	280.8	283.8	103	2.19	
281				9.37	
282				7.42	
283	283.8	286.8	103	1.82	
284				26.27	
285				17.72	
286	286.8	289.8	97	1.04	
287				7.19	
288				45.41	
289	289.8	292.8	101	5.26	
290				6.89	
291				1.30	
292	292.8	295.8	100	1.38	
293				3.81	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
294				5.08	
295	295.8	297.7	98	12.44	
296				8.83	
297	297.8	298.4	98	54.91	297.0-298.4: Small feldspar (common, to 10mm), black hornblende porphyry with creamy pink groundmass, passing to dark grey. Common epidote-sulphide alteration.
298	298.4	299.8	100	30.20	298.4-308.0: Dolerite. Medium grained with markedly fewer, scattered, smaller patches 'coarse-grained' alteration. Common thin actinolite fracture veinlets. Strong fracture at 306.7 with late, 6mm calcite-minor sulphide veinlet after actinolite veinlet.
299	299.8	301.8	98	10.96	
300				5.35	
301	301.8	303.9	95	4.42	
302				7.58	
303	303.9	304.8	98	3.10	
304	304.8	306.9	98	12.2	
305				18.22	
306	306.9	308.9	98	15.66	
307				18.15	
308	308.9	310.8	98	21.33	308.0-311.0: Large-feldspar (sparse, to 20mm), small feldspar (abundant, to 6mm), black hornblende, minor quartz porphyry with medium grey, fine grained groundmass. Scattered planar fractures similar to those in dolerite, with associated epidote alteration and pale alteration of groundmass. Some fractures contain thin epidote-minor sulphide veinlets, 8mm calcite veinlet at bottom contact.
309				33.6	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
310	310.8	313.7	91	35.5	
311				18.4	311.0-336.35: Dolerite. Medium grained with scattered, small patches of 'coarse grained' alteration. Common, thin actinolite veinlets, some with sulphide. Occasional late, thin calcite veinlets in the same fractures. There is zoning related to fractures eg 332.75m: thin actinolite-sulphide veinlet with late, 2mm, median calcite veinlet, all bounded by thin epidote alteration then 3cm intervals of dark alteration.
312				18.15	
313	313.7	316.8	100	11.58	
314				17.08	
315				6.42	
316	316.8	317.4	90+/-	2.56	
317	317.4	319.8	100	2.8	
318				11.6	
319	319.8	322.8	99	11.5	
320				1.6	
321				6.7	
322	322.8	324.9	99	1.9	
323				5.2	
324	324.9	328.0	100	3.0	
325				1.2	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3sl	Core Description
326				.96	
327				.87	
328	328.0	331.1	100	.9	
329				.76	
330				.83	
331	331.1	334.2	100	2.8	
332				6.5	
333				3.4	
334	334.2	337.3	100	4.3	
335				6.0	
336				27.2	336.35-336.65: Large feldspar (sparse, to 30mm) porphyry with very fine grained, dark grey groundmass. Common epidote alteration. Top contact intrusive against (later than) an actinolite-sulphide, planar fracture veinlet. Minor disseminated sulphide.
337	337.3	340.5	97	1.2	3336.65-346.15: Dolerite. Medium grained with relatively few, scattered patches of 'coarse grained' alteration. Common thin actinolite fracture veinlets, with associated 'coarse grained' alteration at 336.8, with strong sulphide at 342.95-343.15=pyrite, quartz, epidote, calcite against 10mm actinolite veinlet, all bounded by 20mm of coarse grained alteration..
338				1.2	
339				1.9	
340	340.5	343.6	99	4.5	
341				5.2	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
342				12.9	
343	343.6	346.8	99	5.5	
344				.8	
345				.66	
346	346.8	349.8	99	10.5	346.15-346.7: Black amphibole (common, to 4mm) porphyry with very fine grained, fawn groundmass. Lamprophyre. Top contact cuts across (later than) an actinolite fracture veinlet.
347				10.9	346.7-347.2: Dolerite. Substantial 'coarse grained' alteration. Actinolite fracture veinlets. Strong veinlet at 355.95-356.08 with sulphide-mt and contained, late calcite veinlet.
348				5.8	347.2-347.55: Larger planar fracture vein with actinolite-calcite-py at 15deg to core axis, 1-4cm thick.
349	349.8	352.8	100	4.9	347.55-348.85: Black hornblende (small, common) porphyry with fine grained fawn-grey groundmass. Lamprophyre. Top and bottom contacts intrusive against (later than) fracture veins. Bottom vein compound with py-mt-actinolite-calcite and later phase of calcite with mt selvage.
350				2.9	348.85-386.55: Dolerite. Medium grained with a few small patches of 'coarse grained' alteration. Common planar fracture veinlets - mostly very thin actinolite, some with sulphide eg 353.85m actinolite-sulphide-late calcite eg 356.85 20mm actinolite with median 5mm sulphide-?mt-calcite-actinolite-honey coloured mineral. Compound veining and alteration present eg 365.8m where thin sulphide veinlets occur within actinolite veinlets with adjacent dark alteration then 'coarse grained' alteration. eg. 385m where 80mm of 'coarse grained' alteration contains actinolite veinlets, cut by late calcite veinlets.
351				3.9	
352	352.8	355.8	99	6.9	
353				4.4	
354				4.5	
355	355.8	358.4	96	8.9	
356				4.9	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
357				1.7	
358	358.4	359.8	100	3.7	
359	359.8	361.8	100	4.6	
360				4.6	
361	361.8	363.9	95	3.5	
362				7.6	
363	363.9	367.0	95	3.0	
364				2.9	
365				2.4	
366				7.6	
367	367.0	370.1	98	1.3	
368				3.1	
369				2.2	
370	370.1	371.8	95	1.9	
371	371.8	373.8	100	1.9	
372				1.1	
373	373.8	376.8	99	1.3	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
374				.9	
375				1.5	
376	376.8	379.8	93	.8	
377				1.9	
378				1.0	
379	379.8	382.8	97	1.1	
380				.9	
381				.9	
382	382.8	385.8	97	1.9	
383				1.0	
384				.98	
385	385.8	388.7	97	.96	
386				19.8	386.55-387.35: Black homblende (common, small) porphyry with small, thin prisms of pale ?pyroxene and fine grained, medium grey groundmass. Lamprophyre.
387				24.4	387.35-405.0: Dolerite. Becoming finer grained. Minor 'coarse grained' alteration, scattered actinolite veinlets. Substantial coarse grained alteration at 404-405 with very fine grained, dark grey irregular porphyry patches. Very little sulphide.
388	388.7	391.8	103	2.2	
389				11.7	
390				19.3	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
391	391.8	394.8	98	1.8	
392				1.1	
393				12.6	
394	394.8	397.7	98	24.9	
395				16.8	
396				19.4	
397	397.7	400.8	100	7.32	
398				.91	
399				85	
400	400.8	403.5	95	.92	
401				.61	
402				1.14	
403	403.5	405.8	98	.96	
404				8.94	
405	405.8	408.9	100	36.98	405.0-406.9: Compound intrusion. Large feldspar (sparse, to 25mm), black hornblende porphyry with fine grained, medium grey groundmass. Numerous patches of epidote alteration with sulphide and mt, surrounded by pale altered groundmass. Later intrusion of black hornblende porphyry with pale green ?pyroxene and very fine grained, dark grey groundmass. Lamprophyre. Bottom contact intrusive against (later than) a planar fracture veinlet with actinolite-sulphide-mt-calcite.
406				33.25	406.9-408.0: Dolerite. Patches of 'coarse grained' alteration.

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
407				3.24	
408	408.9	412.0	98+/-	11.40	408.0-408.5: Black hornblende porphyry. Lamprophyre.
409				4.66	408.5-409.65: Dolerite. Substantial 'coarse grained' alteration with scattered actinolite fracture veinlets eg 409.05 with late calcite-mt-?cp veinlet.
410				1.46	409.65-411.9: Black hornblende porphyry. Lamprophyre. Medium grey groundmass with buff alteration.
411				3.39	411.9-412.78: Dolerite. Patches of 'coarse grained' alteration, common actinolite fracture veinlets. Py veinlet at 412.1.
412	412.0	414.0	90	2.20	412.78-414.0: Black hornblende porphyry with buff, altered groundmass. Lamprophyre.
413				.54	
414	414.0	415.8	89	.86	414.0-422.53: Dolerite. Patches of 'coarse grained' alteration. Common fracture veinlets eg 422.15 15mm actinolite-py-minor epidote. Notable sulphide 422.16-422.30.
415	415.8	417.4	98	1.14	
416				3.59	
417				2.34	
418	418.9	420.4	113	1.60	
419				1.00	
420	420.4	421.8	100	.88	
421	421.8	423.4	75	1.26	
422				15.7	422.53-423.4: Black hornblende porphyry with altered, pale buff groundmass. Lamprophyre.
423	423.4	424.3	89	1.6	423.4-426.46: Dolerite. A few patches of 'coarse grained' alteration. Thin actinolite fracture veinlets.

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
424	424.3	427.3	106	1.17	
425				.88	
426				4.6	426.46-428.94: Black hornblende (unusually large-10mm) porphyry with pale prisms of ?pyroxene and patchy medium grey to pale grey groundmass. Lamprophyre. Common patches of epidote alteration with sulphide, ?disseminated mt in porphyry.
427	427.3	429.0	91	40.8	
428				24.9	428.94-433.37: Dolerite. Minor patches of 'coarse grained' alteration. Scattered actinolite veinlets, come with sulphide.
429	429.0	430.8	105	1.14	
430	430.8	433.8	97	.72	
431				1.27	
432				1.13	
433	433.8	436.3	98	24.66	433.37-440.13: Small feldspar (to10mm), black hornblende porphyry with fine grained grey groundmass. Patchy alteration of groundmass to pale grey and cream, with sulphide veinlets. Common epidote patches. Late carbonate veinlets. Top contact intrusive against (?later than) 'coarse grained' alteration in dolerite.
434				38.3	
435				31.3	
436	436.3	437.5	102	32.8	
437	437.5	439.8	100	43.9	
438				35.7	
439	439.8	442.8	100	31.9	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
440				16.3	440.13-441.31: Dolerite. Patches of 'coarse grained' alteration. Little fracturing.
441				13.6	441.31-441.96: Black hornblende porphyry with pale prisms of ?pyroxene (to 5mm) in fine grained buff groundmass. Lamprophyre.
442	442.8	444.3	87	4.8	441.96-444.25: Dolerite. Patches of 'coarse grained' alteration and scattered actinolite fracture veins. Zoned alteration at 442.4-442.6 with central 5m actinolite-sulphide-mt, then 25mm epidote-sulphide-mt-?quartz, then 40mm of dark silicate-epidote-mt, then 30mm of outer 'coarse grained' alteration with mt.
443				1.15	
444	444.3	445.5	95	16.9	444.25-444.5: Black hornblende porphyry with pale prisms of ?pyroxene and very fine grained, buff groundmass. Lamprophyre.
445	445.5	447.0	98	1.8	444.5-452.3: Dolerite. Scattered, small patches of 'coarse grained' alteration. Scattered, thin actinolite veinlets, some with sulphide eg 446.25m 50mm of silicate-sulphide, eg 446.7m 10mm actinolite-py-mt- other silicate with parallel bands of 'coarse grained' alteration, eg 452m 3cm actinolite-quartz-sulphide veinlet.
446				3.2	452.3-453.3: Large feldspar (sparse, to 15mm), black hornblende porphyry with very fine grained, medium grey groundmass showing patchy cream alteration. Epidote-sulphide alteration patches. Around 5-10% sulphide disseminated and in fractures.
447	447.0	448.6	100	2.8	
448	448.6	451.1	90	1.7	
449				2.1	
450				1.5	
451	451.1	452.3	92	1.2	
452	452.3	453.0	+/-89	9.8	
453	453.0	454.2	+/-90	10.8	453.3-460.6: Dolerite. Sparse, small patches of 'coarse grained' alteration. Several sets of thin actinolite veinlets. Small porphyry intervals 457.7-457.95m and at 458.7m.
454	454.2	455.0	+/-90	12.8	
455	455.0	456.2	+/-90	7.8	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
456	456.2	457.6	86	4.8	
457	457.6	459.3	94	6.96	
458				1.0	
459	459.3	460.5	+/-90	.81	
460	460.5	462.2	88	4.13	460.6-461.4: Small feldspar (common, to 8mm), black hornblende porphyry with very fine grained, medium grey groundmass showing patchy pale grey and cream alteration. Alteration clearly related to fracturing at 461.05. Common epidote-sulphide alteration though hornblende mostly exhibits sulphide alteration. Sulphide is common.
461				6.01	461.4-464.4: Dolerite. One interval, of coarse grained' alteration. Several sets of actinolite fracture veinlets.
462	462.2	463.4	92	.87	
463	463.4	466.2	95	1.1	
464				20.94	464.4-464.87: Porphyry similar 460.60-461.4.
465				.9	464.87-474.1: Dolerite. Fairly uniform to 467.3m, then scattered patches of 'coarse grained' alteration. Scattered actinolite veinlets, also very thin, late carbonate veinlets.
466	466.2	467.9	99	.86	
467	467.9	469.7	98	.86	
468				1.09	
469	469.7	470.8	97	.94	
470	470.8	471.5	97	.72	
471	471.5	472.2	98	.76	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
472	472.2	473.4	98	.69	
473	473.4	474.5	98	.92	
474	474.5	475.9	93	1.75	474.1-475.0: Large feldspar (to 15mm) porphyry with very fine grained, medium grey groundmass showing patchy pale grey and cream alteration. Strong epidote-sulphide alteration. Also, sulphide disseminated and in veinlets, giving 5-10% overall sulphide.
475	475.9	478.6	96	2.6	475.0-483.5: Dolerite. A very few, scattered, small patches of 'coarse grained' alteration. Common very thin, actinolite fracture veinlets.
476				.97	
477				.96	
478	478.6	479.8	+/-90	1.0	
479	479.8	781.9	81	.9	
480				.76	
481	481.9	482.7	98	.8	
482	482.7	484.8	100	.8	
483				.7	483.5-484.6: Small feldspar (to 4mm) porphyry with unusually uniform very fine grained, cream groundmass. Very minor epidote. Sulphide disseminated and in very thin veinlets giving 2-4% overall. Possible disseminated mt.
484	484.8	486.3	87	1.2	484.6-487.2: Dolerite. As for 475-483 5m.
485				.8	
486	486.3	487.4	+/-90	.7	
487	487.4	488.8	98	22.4	487.2-487.65: Large feldspar (sparse, to 20mm), small feldspar (abundant, to 3mm), black amphibole porphyry with very fine grained, medium grey groundmass that is locally altered to cream along fractures. Minor epidote-sulphide alteration. Thin sulphide veinlets.

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-1

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
488	488.8	490.5	90	.9	487.65-494.4: Dolerite. Uniform to 490.5, then patches of 'coarse grained' alteration. Note: core is very broken in places after 452m.
489				1.1	
490	490.5	491.4	90	1.0	
491	491.4	493.2	98	1.0	
492				1.2	
493	493.2	494.4	96	2.4	
494	494.4	495.0	83	110.1	494.4-495.95: Black amphibole (abundant, to 4mm) porphyry with pale prisms of ?pyroxene and unaltered, fine grained, medium grey ground mass. Lamprophyre. Sulphide disseminated and in irregular veinlets giving 1-3% overall. Possible disseminated mt.
495	495.0	493.1	70	60.1	495.95-498.9: Dolerite. Substantial 'coarse grained' alteration. Common actinolite veinlets, some with sulphide.
496	496.1	497.1	70	34.1	
497	497.1	498.2	99	17.5	
498	498.2	499.7	97	9.7	498.9-499.9: Strongly altered (silicified) porphyry with cream to pale grey, very fine grained groundmass. From 499.15 there is a later intrusion of lamprophyre.
499	499.7	500.9	92	83.6	499.9-539.1: Dolerite. Becomes fine grained by 520m. Substantial 'coarse grained' alteration 501.3-502 and 522.9-523.1, elsewhere it is minor. Scattered actinolite fracture veinlets throughout, some with sulphide eg 510.61m actinolite-py-quartz, late quartz vein. 516.75-516.95 py-?mt-quartz. Several veinlets associated with minor 'coarse grained' recrystallisation. Zeolite coatings on scattered fractures, notably after 510m. Vughy quartz-carbonate vein at 502.4m.
500	500.9	502.2	92	3.8	
501				6.0	
502	502.2	503.0	98	16.9	
503	503.0	504.7	80	2.0	

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Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
504	504.7	505.6	90	1.7	
505	506.6	506.0	65	.9	
506	506.0	507.4	80	1.3	
507	507.4	508.8	86	1.8	
508	508.8	509.2	98	1.0	
509	509.2	510.4	67	1.9	
510	510.4	511.5	69	3.4	
511	511.5	512.7	88	3.0	
512	512.7	513.0	93	.95	
513	513.0	514.1	81	1.6	
514	514.1	515.3	99	1.1	
515	515.3	516.3	97	1.7	
516	516.3	517.8	94	14.5	
517	517.8	518.7	110	5.9	
518	518.7	519.4	96	.9	
519	519.4	521.2	99	25.3	
520				3.6	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
521	521.2	522.1	99	2.5	
522	522.1	523.5	79	61.77	
523	523.5	524.2	114	5.4	
524	524.2	525.3	92	1.2	
525	525.3	525.9	+/-90	.9	
526	525.9	527.1	94	.9	
527	527.1	528.2	97	1.0	
528	528.2	529.0	98	6.1	
529	529.0	529.8	99	1.4	
530	529.8	530.9	95	.9	
531	530.9	532.7	105	1.1	
532	532.7	533.8	97	1.1	
533	533.8	534.3	97	3.6	
534	534.3	535.2	85	1.2	
535	535.2	536.8	106	.9	
536	536.8	538.2	98	.8	
537				.8	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
538	538.2	539.5	98	1.5	
539	539.5	540.3	98	17.8	539.1-540.0: Large feldspar (common, to 20mm), black hornblende porphyry with very fine grained, medium grey groundmass showing patchy, pale grey alteration.
540	540.3	541.4	98	1.2	540.0-543.7: Dolerite. Fine grained with a few, small patches of 'coarse grained' alteration associated with fractures. Scattered actinolite fracture veinlets, no sulphide. Small irregular patch of porphyry at 542.9m.
541	541.4	545.0	96	.9	
542				4.1	
543				10.7	543.7: Dolerite contact. Core broken. Attitude unknown.
544				5.1	543.7-544.2: Strongly hornfelsed, fine grained sedimentary rocks with pale, hard bands at 45deg to core axis.
545	545.0	545.8	80	NO SAMPLE	544.2-546.4: Metamorphosed dark grey pebbly sandy silty mudstone. Pebbles to 30mm, mainly quartzose. Some clasts with recrystallised mafic assemblages and pale alteration halos in adjacent matrix. Very broken core.
546	545.8	547.2	79	.3	546.4-548.1: Pebbly mudstone without altered, mafic clasts, no cleavage.
547	547.2	548.9	75	.4	
548	548.9	549.7	88	.33	548.1-553.9: Medium to dark grey metasedimentary rocks. Fine grained, easily scratched (micaceous). Pervasive, spaced cleavage of uniform orientation 40deg to core axis. Cleavage defined by very thin (<1mm), discontinuous seams of very fine grained, granular black mineral and sulphide. Cleavage partings are moderately lustrous. Open kink bands with 10mm limbs are present in places. These rocks look like some low grade Tyennan phyllites. Thin section work might provide confirmation. The cleavage is cross-cut by a 50mm thick porphyry at 551.6m.
549	549.7	550.4	71	.3	
550	550.4	551.3	78	.55	
551	551.3	552.3	70	.4	
552	552.3	553.9	81	.95	

Project: Cygnet**Exploration Licence:** EL29/97**Prospect:** Mt Mary Mine**Hole Number:** CM-1**Logged by:** Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
553	553.9			.6	END OF HOLE

ASSAYS

Project: Cygnet

Prospect: Mt Mary Mine

Exploration Licence: EL29/97

Hole Number: CM-1

Sample Number	Units		ppm	ppm	ppm		ppm	%	ppm	ppm	ppm															
	From	To	Detection Limit	0.01	0.01	2	3	0.01	2	1	50	5														
	Method	F630	F630	A102	A102	A103	A102	A102	A102	A102	A102	A102														
			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
140001	7.5	8	0.02	-			34		111	-	353		-1		-50									-5		
140002	8	9	-0.01	-			15		61	-	141		-1		-50									-5		
140003	9	10	0.02	-			18		116	-	212		-1		-50									-5		
140004	10	11	0.03	-			14		61	-	203		-1		-50									-5		
140005	11	12	0.01	-			16		70	-	231		-1		-50									-5		
140006	12	13	-0.01	-			14		120	-	211		-1		-50									-5		
140007	13	14	0.02	-			12		117	-	175		-1		-50									6		
140008	14	15	0.02	-			37		139	-	236		-1		-50									-5		
140009	15	16	-0.01	-			17		99	-	209		-1		-50									6		
140010	16	17	0.05	0.06			26		110	-	428		-1		-50									7		
140011	17	18	0.02	-			24		66	-	359		-1		-50									5		
140013	19	20	0.04	-			62		109	-	758		-1		-50									-5		
140014	20	21	0.04	-			32		96	-	446		-1		-50									-5		
140015	21	22	0.02	-			17		62	-	150		-1		-50									8		
140016	22	23	0.07	-			13		482	-	314		-1		-50									-5		
140017	23	24	-0.01	-			9		72	-	166		-1		-50									-5		
140018	24	25	0.03	0.03			32		227	-	223		-1		-50									11		
140019	25	26	0.17	0.12			54		>5000	0.67	1890		-1		-50									6		
140020	26	27	0.09	-			53		3250	-	1665		-1		-50									6		

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Sample Number	Units		ppm	ppm	ppm		ppm	%	ppm	ppm	ppm															
	Detection Limit		0.01	0.01	2		3	0.01	2	1	50															
	Method	F630	F630	A102		A102	A103	A102	A102	A102	A102															
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	
140021	27	28	0.1	-			41		2020	-	1425	-1		-50												10
140022	28	29	0.14	0.13			71		335	-	494	-1		-50												-5
140023	29	30	0.06	-			54		152	-	206	-1		-50												-5
140024	30	31	-0.01	-			33		62	-	129	-1		-50												-5
140025	31	32	0.03	-			34		36	-	112	-1		-50												-5
140026	32	33	0.07	0.06			37		14	-	110	-1		-50												-5
140027	33	34	0.03	-			32		21	-	160	-1		-50												-5
140028	34	35	0.03	-			37		25	-	149	-1		-50												5
140029	35	36	0.02	-			29		18	-	112	-1		-50												-5
140030	36	37	-0.01	-			28		13		114	-1		-50												-5
140031	37	38	-0.01	-			33		12		93	-1		-50												-5
140032	38	39	-0.01	-0.01			30		13		132	-1		75												-5
140033	39	40	-0.01	-			22		15		119	-1		-50												-5
140034	40	41	-0.01	-			25		35		96	-1		-50												-5
140035	41	42	-0.01	-			23		22		74	-1		-50												6
140036	42	43	-0.01	-			25		27		126	-1		-50												6
140037	43	44	-0.01	-			26		33		105	-1		-50												5
140038	44	45	0.23	0.18			80		528		1125	-1		-50												-5
140039	45	46	0.06	0.07			64		118		900	-1		-50												5
140040	46	47	-0.01	-			25		18		100	-1		-50												-5
140041	47	48	-0.01	-			28		29		131	-1		-50												-5
140042	48	49	-0.01	-			30		26		80	-1		-50												5
140043	49	50	-0.01	-			22		19		72	-1		-50												-5

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Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm											ppm					
	Detection Limit		0.01	0.01			2	3	2	1	50																			5
	Method	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	A102		
140067		73	74	-0.01	-			45		7		35		-1		-50													-5	
140068		74	75	0.04	-			36		5		66		-1		-50													-5	
140069		75	76	0.1	0.08			53		137		1505		-1		-50													-5	
140070		76	77	-0.01	-			47		79		124		-1		-50													-5	
140071		77	78	-0.01	-			45		20		65		-1		-50													-5	
140072		78	79	0.02	-			50		69		184		-1		-50													9	
140073		79	80	0.03	-			51		32		97		-1		-50													-5	
140074		80	81	-0.01	-0.01			129		102		188		-1		-50													-5	
140075		81	82	-0.01	-			63		42		95		-1		-50													9	
140076		82	83	-0.01	-			11		4		55		-1		-50													7	
140077		83	84	-0.01	-			5		7		57		-1		-50													5	
140078		84	85	-0.01	-0.01			28		35		115		-1		-50													15	
140079		85	86	-0.01	-			71		27		60		-1		-50													-5	
140080		86	87	-0.01	-			80		33		87		-1		-50													-5	
140081		87	88	0.1	0.11			69		57		142		-1		-50													12	
140082		88	89	-0.01	-			125		162		201		1		-50													-5	
140083		89	90	-0.01	-			58		29		71		-1		-50													5	
140084		90	91	-0.01	-			41		16		52		-1		-50													12	
140085		91	92	-0.01	-			48		18		52		-1		-50													-5	
140086		92	93	-0.01	-			17		5		54		-1		-50													-5	
140087		93	94	-0.01	-			29		5		63		-1		-50													6	
140088		94	95	-0.01	-			38		5		97		-1		-50													15	
140089		95	96	0.07	0.05			10		4		62		-1		-50													10	

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Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm		ppm		ppm		ppm		ppm		ppm		ppm		S	S 1	Mn	
	Detection Limit		0.01	0.01	2		3	2	1	50		5		5		5		5		5		5					
	Method		F630	F630	A102		A102	A102	A102	A102	A102		A102		A102		A102		A102		A102		A102				
	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				
140090	96	97	0.03	-			29	-3		48		-1		-50								10					
140091	97	98	0.04	-			7	3		49		-1		-50								6					
140092	98	99	0.01	-			12	10		82		-1		-50								11					
140093	99	100	-0.01	0.01			9	4		67		-1		-50								-5					
140094	100	101	-0.01	-			19	6		61		-1		-50								6					
140095	101	102	0.06	-			17	4		62		-1		-50								-5					
140096	102	103	0.02	-			29	8		85		-1		-50								12					
140097	103	104	0.03	-			15	14		93		-1		-50								-5					
140098	104	105	0.01	-			33	34		117		-1		-50								-5					
140099	105	106	-0.01	-			8	16		92		-1		-50								-5					
140100	106	107	-0.01	-			27	16		88		-1		-50								-5					
140101	107	108	-0.01	-			6	11		96		-1		-50								8					
140102	108	109	-0.01	-			7	11		86		-1		-50								6					
140103	109	110	-0.01	-			9	9		77		-1		-50								5					
140104	110	111	-0.01	-0.01			63	8		77		-1		-50								5					
140105	111	112	0.02	-			23	5		81		-1		-50								-5					
140106	112	113	-0.01	-0.01			33	12		127		-1		-50								6					
140107	113	114	-0.01	-			27	17		147		-1		-50								-5					
140108	114	115	-0.01	-			22	30		182		-1		-50								10					
140109	115	116	-0.01	-			35	33		242		-1		-50								-5					
140110	116	117	0.02	-			26	12		175		-1		-50								12					
140111	117	118	-0.01	-			5	39		239		-1		-50								6					
140012	118	19	0.01	-			52	53	-	385		-1		-50								-5					

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Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm		ppm		ppm		ppm		ppm		S	S 1	Mn		
	Detection	Limit	0.01	0.01	2	3	2	1	50	5	ppm		ppm		ppm		ppm		ppm						
	Method		F630	F630	A102	A102	A102	A102	A102	A102	As(R1)	Sn	Pt	Pd	Ni	Fe	Bi	Mo							
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
140112	118	119	-0.01	-			8		30			127		-1											10
140113	119	120	-0.01	-			20		38			125		-1											-5
140114	120	121	-0.01	-			7		21			112		-1											8
140115	121	122	-0.01	-			8		27			204		-1											5
140116	122	123	0.06	-			30		19			158		-1											8
140117	123	124	-0.01	-			33		6			202		-1											-5
140118	124	125	-0.01	-			28		5			152		-1											-5
140119	125	126	-0.01	-			32		5			91		-1											-5
140120	126	127	-0.01	-			36		27			160		-1											-5
140121	127	128	-0.01	-			25		23			118		-1											-5
140122	128	129	-0.01	-			36		51			190		-1											-5
140123	129	130	-0.01	-			45		87			326		-1											5
140124	130	131	0.02	-			32		3			83		-1											-5
140125	131	132	0.01	-			32		50			97		-1											-5
140126	132	133	-0.01	-			19		18			93		-1											-5
140127	133	134	-0.01	-			18		4			85		-1											-5
140128	134	135	0.08	0.1			121		5			58		-1											6
140129	135	136	-0.01	-			41		10			122		-1											9
140130	136	137	-0.01	-			22		7			116		-1											-5
140131	137	138	-0.01	-			29		15			136		-1											-5
140132	138	139	-0.01	-			33		9			153		-1											8
140133	139	139.8	-0.01	-			38		5			112		-1											6
140134	139.8	141	-0.01	-			34		11			37		-1											-5

60000000

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm											ppm				
	Detection Limit		0.01	0.01	2		3	2	1	50	5											5				
	Method	F630	F630	A102	A102	A102	A102	A102	A102	A102	A102											A102				
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	
140158	164	165	0.01	-			26		8		42		-1		-50											-5
140159	165	166	0.03	-			23		7		44		-1		-50											-5
140160	166	167	0.05	-			32		38		61		-1		-50											-5
140161	167	168	0.04	-			13		9		48		-1		-50											-5
140162	168	169	0.03	-			28		9		56		-1		-50											-5
140163	169	170	0.03	-			13		7		45		-1		-50											5
140164	170	171	0.03	-0.01			51		11		47		-1		-50											-5
140165	171	172	-0.01	-			12		9		43		-1		-50											12
140166	172	173	-0.01	-			9		12		46		-1		-50											-5
140167	173	174	-0.01	-			22		19		48		-1		-50											-5
140168	174	175	-0.01	-			6		11		33		-1		-50											5
140169	175	176	-0.01	-			7		9		40		-1		-50											11
140170	176	177	-0.01	-			26		10		49		-1		-50											10
140171	177	178	-0.01	-			54		5		58		-1		-50											15
140172	178	179	-0.01	-			71		9		48		-1		-50											-5
140173	179	180	-0.01	-			40		5		46		-1		-50											-5
140174	180	181	-0.01	-			21		3		39		-1		-50											-5
140175	181	182	0.02	-			70		3		44		-1		-50											-5
140176	182	183	-0.01	-			38		-3		34		-1		-50											-5
140177	183	184	-0.01	-			28		-3		33		-1		-50											-5
140178	184	185	-0.01	-			38		3		34		-1		-50											-5
140179	185	186	-0.01	-			19		6		32		-1		-50											6
140180	186	187	-0.01	-			24		10		45		-1		-50											5

600081

Sample Number	Units		ppm	ppm	ppm			ppm	ppm	ppm			ppm			ppm			ppm			S	S 1	Mn
	Detection Limit		0.01	0.01	2	3	2	1	50	5			5			5								
	Method	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			
140181	187	188	-0.01	-			37		8		35		-1		-50									-5
140182	188	189	0.02	-			49		8		37		-1		-50									5
140183	189	190.35	-0.01	-			93		-3		47		-1		-50									8
140184	190.35	190.54	0.08	-			218		7		37		-1		-50									-5
140185	190.54	191	0.04	-			95		7		61		-1		-50									7
140186	191	192	0.02	-			112		7		55		-1		-50									5
140187	192	192.9	0.03	-			82		-3		50		-1		-50									11
140188	192.9	194	0.05	-			170		5		35		-1		-50									-5
140189	194	194.3	0.07	-			136		3		37		-1		-50									-5
140190	194.3	194.6	0.08	-			159		6		58		-1		-50									-5
140191	194.6	195	0.05	-			82		7		53		-1		-50									-5
140192	195	196	0.1	-			91		7		61		-1		-50									-5
140193	196	197	0.02	0.02			85		4		53		-1		-50									5
140194	197	198	0.02	-			74		4		52		-1		-50									-5
140195	198	198.9	0.03	-			98		7		67		-1		-50									-5
140196	198.9	199.6	0.06	-			29		8		42		-1		-50									-5
140197	199.6	199.7	0.93	0.84			282		16		716		-1		-50									-5
140198	199.7	199.9	4.5	4.45			2350		16		3510		3		85									6
140199	199.9	200.01	0.23	-			443		14		165		1		-50									5
140200	200.01	201	0.13	0.06			95		-3		70		-1		-50									-5
140212	201	202	0.06	-			87		5		72		-1		-50									9
140213	202	203	0.23	-			71		4		60		-1		-50									5
140214	203	203.79	0.06	-			80		6		51		-1		-50									-5

000000

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm												ppm				
	Detection Limit		0.01	0.01	2		3	2	1	50	5												5				
	Method	F630	F630	A102		A102	A102	A102	A102	A102	A102												A102				
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		
140284	258	259	0.04	0.05			87		6			44		-1													-5
140285	259	260	0.11	-9000			66		9			46		-1													-5
140286	260	261	0.17	0.11			106		7			35		-1													-5
140287	261	262	0.05	-9000			128		14			51		-1													-5
140288	262	263	0.03	-9000			85		7			44		-1													-5
140289	263	263.54	0.01	-9000			61		13			46		-1													-5
140290	263.54	264	0.09	-9000			387		50			105		-1													-5
140291	264	265	0.05	-9000			250		18			51		-1													-5
140292	265	266	0.1	0.12			178		17			27		-1													-5
140293	266	267	-0.01	-9000			3		-3			4		-1													-5
140294	267	268.3	0.03	-9000			13		6			11		-1													-5
140295	268.3	269.5	0.39	0.38			171		17			25		-1													-5
140296	269.5	270.18	0.11	0.11			37		7			35		-1													5
140297	270.18	271	0.07	0.08			98		28			117		-1													-5
140298	271	272	0.34	0.23			7		16			34		-1													-5
140299	272	273	0.06	0.09			4		17			31		-1													-5
140300	273	274	0.03	0.02			3		16			38		-1													-5
140301	274	275	0.02	-9000			5		8			17		-1													-5
140302	275	275.8	0.03	-9000			7		22			40		-1													-5
140303	275.8	276.24	0.21	0.22			6		11			27		-1													-5
140304	276.24	277	0.03	-9000			5		6			16		-1													-5
140305	277	278	0.1	0.1			118		14			46		-1													-5
140306	278	278.74	0.03	-9000			65		5			32		-1													-5

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm		ppm	ppm	ppm		ppm		ppm	ppm		ppm	S	S 1	Mn
	Detection Limit		0.01	0.01	2		3	2	1	50		5	5		5		5							
	Method		F630	F630	A102		A102	A102	A102	A102	A102		A102	A102		A102		A102						
	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			
140372	412.78	414	-0.01	-9000			17		34	159		-1		-50									-5	
140373	414	415	-0.01	-9000			66		4	33		-1		-50									-5	
140374	415	415.92	-0.01	-9000			38		9	38		-1		-50									-5	
140375	415.92	417	0.03	-9000			69		4	33		-1		-50									-5	
140376	417	418	-0.01	-9000			47		3	24		-1		-50									-5	
140377	418	419	0.03	-9000			125		-3	34		-1		-50									-5	
140378	419	420	0.01	-0.01			52		-3	19		-1		-50									-5	
140379	420	421	0.02	-9000			45		-3	16		-1		-50									-5	
140380	421	422.16	0.05	-9000			84		-3	20		-1		-50									-5	
140381	422.16	422.3	2	1.9			4840		10	43		5		-50									-5	
140382	422.3	422.53	0.86	0.77			406		14	90		1		-50									40	
140383	422.53	423.5	0.02	-9000			75		404	449		1		-50									8	
140384	423.5	424	-0.01	-9000			36		4	22		-1		-50									-5	
140385	424	425	-0.01	-9000			39		-3	18		-1		-50									-5	
140386	425	426	-0.01	-9000			40		-3	17		-1		-50									-5	
140387	426	426.46	0.05	0.04			74		4	21		-1		-50									-5	
140388	426.46	427	0.06	-9000			127		3	16		-1		-50									-5	
140389	427	428	-0.01	-0.01			26		3	16		-1		-50									-5	
140390	428	428.94	0.02	-9000			21		6	24		-1		-50									-5	
140391	428.94	430	-0.01	-9000			53		-3	27		-1		-50									-5	
140392	430	431	-0.01	-9000			42		-3	23		-1		-50									-5	
140393	431	432	0.03	-9000			60		-3	21		-1		-50									-5	
140394	432	433.37	-0.01	-9000			50		15	40		-1		-50									15	

140394

Sample Number	Units		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm	
	Detection Limit		0.01	0.01	2	3	2	1	50															
	From	To	Method	F630	F630	A102	A102	A102	A102	A102														
140395	433.37	434	Au	-0.01	-9000	Cu	20	Cu(R1)	21	Zn	41	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140396	434	435	Au	-0.01	-0.01	Cu	10	Cu(R1)	20	Zn	38	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140397	435	436	Au	-0.01	-9000	Cu	5	Cu(R1)	15	Zn	38	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140398	436	436.65	Au	-0.01	-9000	Cu	8	Cu(R1)	17	Zn	42	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140399	436.65	437	Au	-0.01	-9000	Cu	28	Cu(R1)	14	Zn	34	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140400	437	438	Au	-0.01	-9000	Cu	8	Cu(R1)	9	Zn	35	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140401	438	439	Au	0.04	-9000	Cu	35	Cu(R1)	12	Zn	33	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140402	439	440.13	Au	-0.01	-9000	Cu	29	Cu(R1)	9	Zn	37	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140403	440.13	441.31	Au	-0.01	-0.01	Cu	41	Cu(R1)	-3	Zn	26	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140404	441.31	441.96	Au	0.02	-9000	Cu	11	Cu(R1)	6	Zn	90	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140405	441.96	443	Au	-0.01	-9000	Cu	59	Cu(R1)	-3	Zn	27	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140406	443	443.5	Au	-0.01	-9000	Cu	50	Cu(R1)	7	Zn	28	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140407	443.5	443.6	Au	-0.01	-9000	Cu	109	Cu(R1)	15	Zn	56	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140408	443.6	444	Au	-0.01	-9000	Cu	41	Cu(R1)	14	Zn	41	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140409	444	444.6	Au	0.01	-9000	Cu	92	Cu(R1)	21	Zn	92	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140410	444.6	445	Au	0.02	-9000	Cu	52	Cu(R1)	5	Zn	29	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140411	445	445.5	Au	-0.01	-9000	Cu	71	Cu(R1)	5	Zn	33	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140412	445.5	446.15	Au	0.02	-9000	Cu	102	Cu(R1)	4	Zn	28	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140413	446.15	446.3	Au	0.12	0.15	Cu	45	Cu(R1)	9	Zn	45	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140414	446.3	447	Au	0.02	-9000	Cu	66	Cu(R1)	6	Zn	32	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140415	447	448	Au	-0.01	-0.01	Cu	66	Cu(R1)	3	Zn	22	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140416	448	449	Au	-0.01	-9000	Cu	72	Cu(R1)	-3	Zn	24	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						
140417	449	450	Au	-0.01	-9000	Cu	130	Cu(R1)	-3	Zn	32	Zn(R1)	Ag	-1	Ag(R1)	As	-50	As(R1)						

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm								
	Detection Limit		0.01	0.01	2		3	2	1	50		5														
	Method	F630	F630	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102
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	
140418	450	451	0.02	-9000			52	8		23		-1		-50												-5
140419	451	451.88	0.05	-9000			117	11		21		-1		-50												-5
140420	451.88	452.4	0.74	0.56			289	10		43		-1		-50												-5
140421	452.4	453.2	0.09	-9000			97	18		33		-1		-50												-5
140422	453.2	454	0.04	-9000			63	12		33		-1		-50												-5
140423	454	455	0.03	-9000			48	5		27		-1		-50												-5
140424	455	456	0.02	-9000			60	-3		26		-1		-50												-5
140425	456	456.5	0.02	-9000			64	6		30		-1		-50												-5
140426	456.5	457	0.01	-9000			60	-3		28		-1		-50												-5
140427	457	457.65	0.01	-9000			41	-3		24		-1		-50												-5
140428	457.65	457.93	-0.01	-9000			172	3		21		-1		-50												5
140429	457.93	459	-0.01	-9000			13	3		22		-1		-50												-5
140430	459	460	0.04	-9000			30	-3		24		-1		-50												-5
140431	460	460.6	0.01	-9000			38	-3		24		-1		-50												-5
140432	460.6	461.4	0.04	0.03			192	7		22		-1		-50												8
140433	461.4	462	-0.01	-9000			50	-3		26		-1		-50												-5
140434	462	463	0.01	-9000			53	8		26		-1		-50												-5
140435	463	464.4	0.04	-9000			48	3		29		-1		-50												-5
140436	464.4	464.87	0.02	-9000			96	12		31		-1		-50												-5
140437	464.87	466	-0.01	-9000			50	12		27		-1		-50												-5
140438	466	467	-0.01	-9000			59	9		31		-1		-50												-5
140439	467	468	-0.01	-9000			67	10		31		-1		-50												-5
140440	468	469	-0.01	-9000			55	8		25		-1		-50												-5

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Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm		ppm												ppm		
	Detection Limit		0.01	0.01	2		3	2	1	50	5														5		
	Method	From	To	F630	F630	A102	A102	A102	A102	A102	A102	A102	A102												A102		
			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	
140441	469	470	-0.01	-9000			49		10		19		-1		-50												5
140442	470	471	-0.01	-9000			45		11		20		-1		-50												-5
140443	471	472	-0.01	-9000			64		3		28		-1		-50												-5
140444	472	473	-0.01	-9000			55		6		27		-1		-50												-5
140445	473	474.1	-0.01	-9000			58		10		30		-1		-50												5
140446	474.1	475	-0.01	-0.01			171		17		29		-1		-50												-5
140447	475	476	0.02	-9000			30		10		31		-1		-50												-5
140448	476	477	-0.01	-9000			58		13		34		-1		-50												-5
140449	477	478	-0.01	-9000			64		10		24		-1		-50												-5
140450	478	479	-0.01	-0.01			64		8		27		-1		-50												-5
140451	479	480	-0.01	-9000			62		7		29		-1		-50												-5
140452	480	481	0.15	0.11			130		19		36		-1		-50												-5
140453	481	482	-0.01	-9000			59		6		30		-1		-50												-5
140454	482	483.5	-0.01	-9000			53		9		29		-1		-50												-5
140455	483.5	484	-0.01	-9000			40		17		19		-1		-50												-5
140456	484	484.6	-0.01	-9000			20		9		9		-1		-50												-5
140457	484.6	485	-0.01	-9000			40		14		37		-1		-50												-5
140458	485	486	0.02	-9000			51		8		28		-1		-50												-5
140459	486	487.2	-0.01	-9000			29		10		20		-1		-50												-5
140460	487.2	487.65	-0.01	-9000			60		10		25		-1		-50												7
140461	487.65	488	-0.01	-0.01			39		7		29		-1		-50												-5
140462	488	489	0.01	-0.01			56		7		19		-1		-50												-5
140463	489	490	-0.01	-9000			65		10		22		-1		-50												-5

630007

	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm		ppm	ppm											ppm	
	Detection Limit		0.01	0.01	0.02		2	3	2	1	50														3	
	Method		F630	F630	P625		A102	A102	A102	A102	A102													A102		
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
140502	549.3	549.6	-0.01	-9000	-0.02		39		4		62		-1		-50											-3

6500009

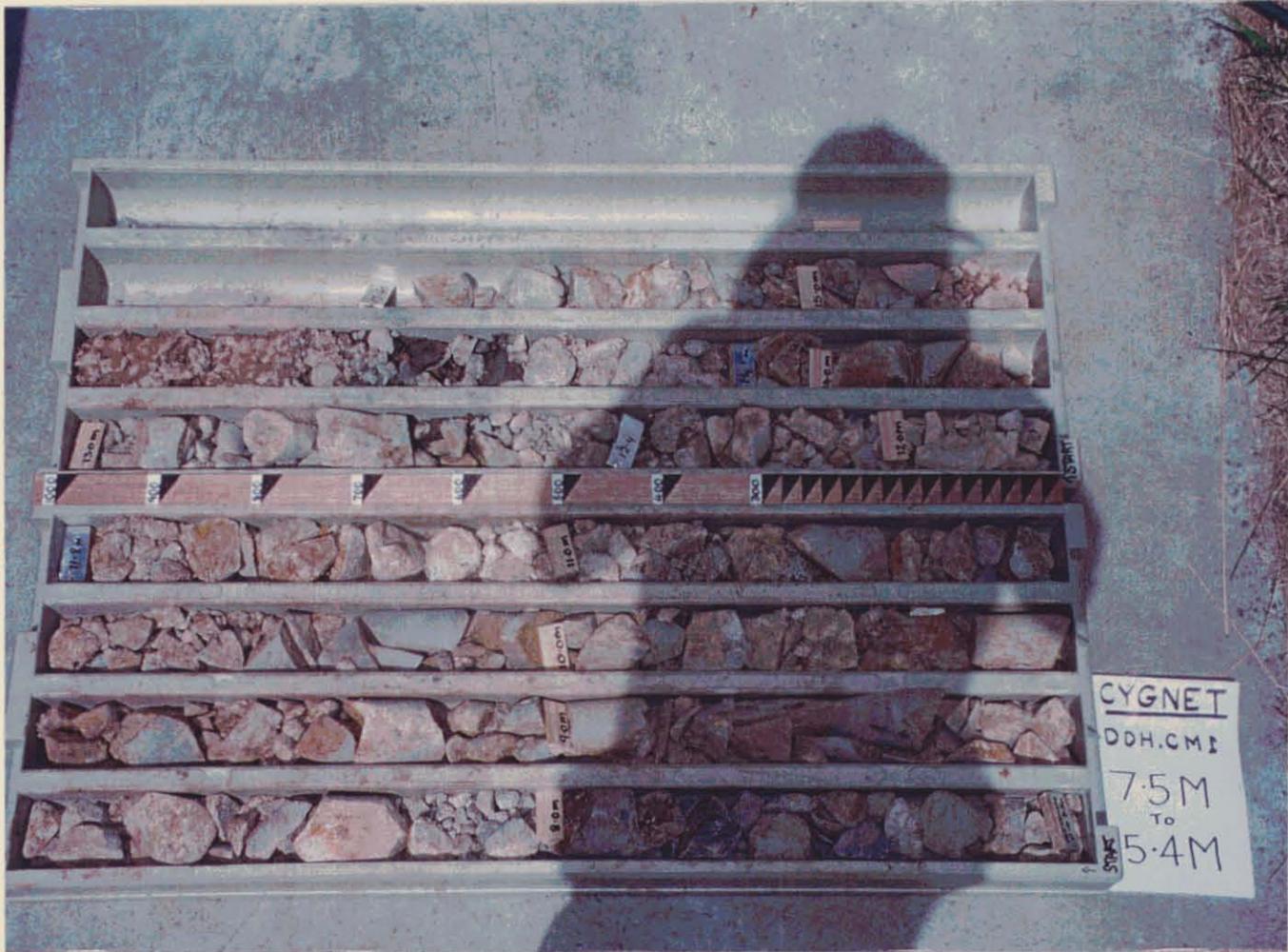
639100

Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

PHOTOGRAPHIC RECORD OF CM-1





CYGNET
DDH
CMI
38.45M
To
45.7M



CYGNET
DDH
CMI
45.7M
To
54.6M



CYGNET
DDH
CMI
54.6 M
TO
62.4 M



CYGNET
DDH
CMI
62.4 M
TO
69.4 M



CYGNET
DDH
CMI
69.4 M
TO
76.5 M



CYGNET
DDH
CMI
76.5 M
TO
83.95 M



CYGNET
DDH
CMI
83.95 M
TO
91.0 M



CYGNET
DDH
CMI
91.0 M
TO
98.2 M

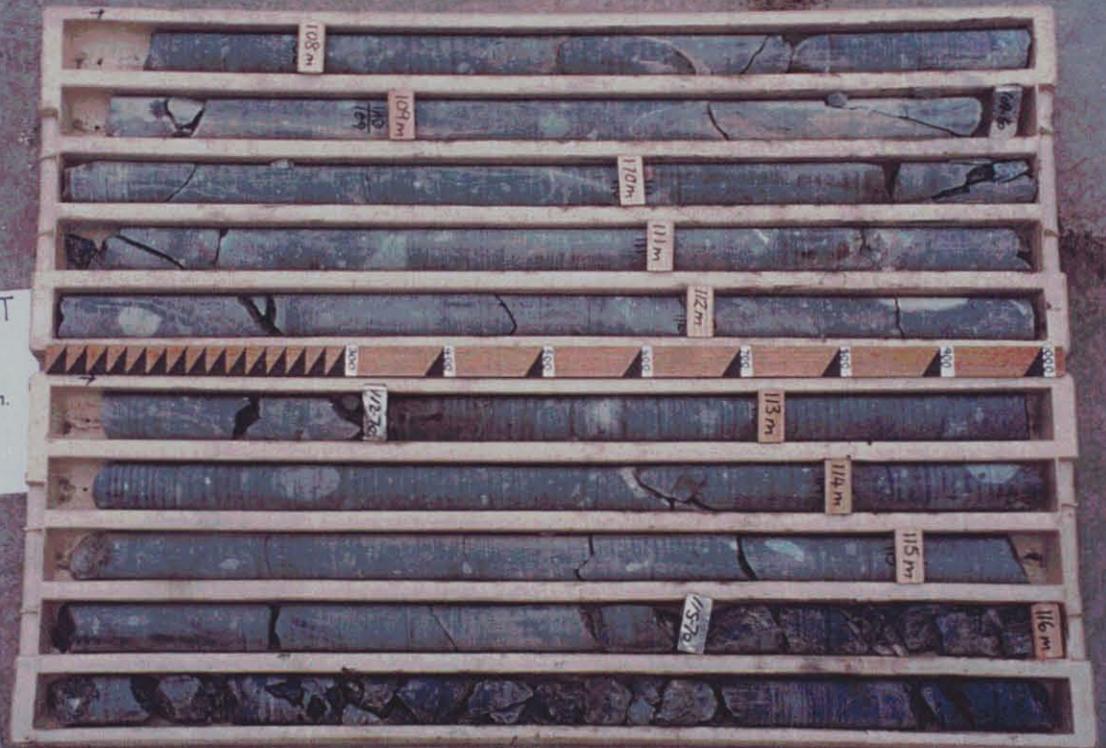


639107

CYGNET
DDH
CMI
98.2 m.
To
107.8 m.



CYGNET
DDH
CMI
107.8 m.
To
117 m



639108

CYGNET
DDH
CMI
117.0 m
To
126.8 m



CYGNET
DDH
CMI
126.8 m
To
134.75 m



CYGNET
DDH
CMI
134.75 m
to
143.8



CYGNET
DDH
CMI
143.8 m
to
153.1 m



CYGNET
DDH
CMI
153.1 M
To
162.5 M



CYGNET
DDH
CMI
162.5 M
To
172.1 M



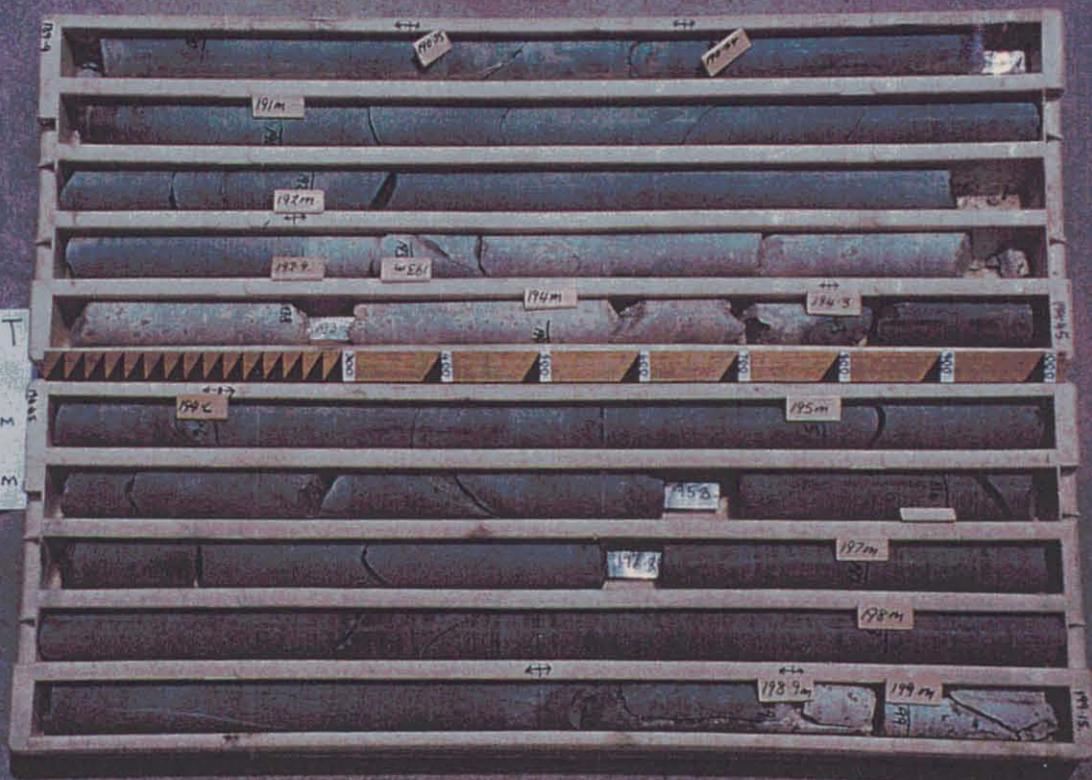
CYGNET
DDH
CMI
172.1 M
TO
180.9 M



CYGNET
DDH
CMI
180.9 M
TO
189.9 M



CYGNET
DPH
C.M.I.
189.9 M
TO
199.15 M



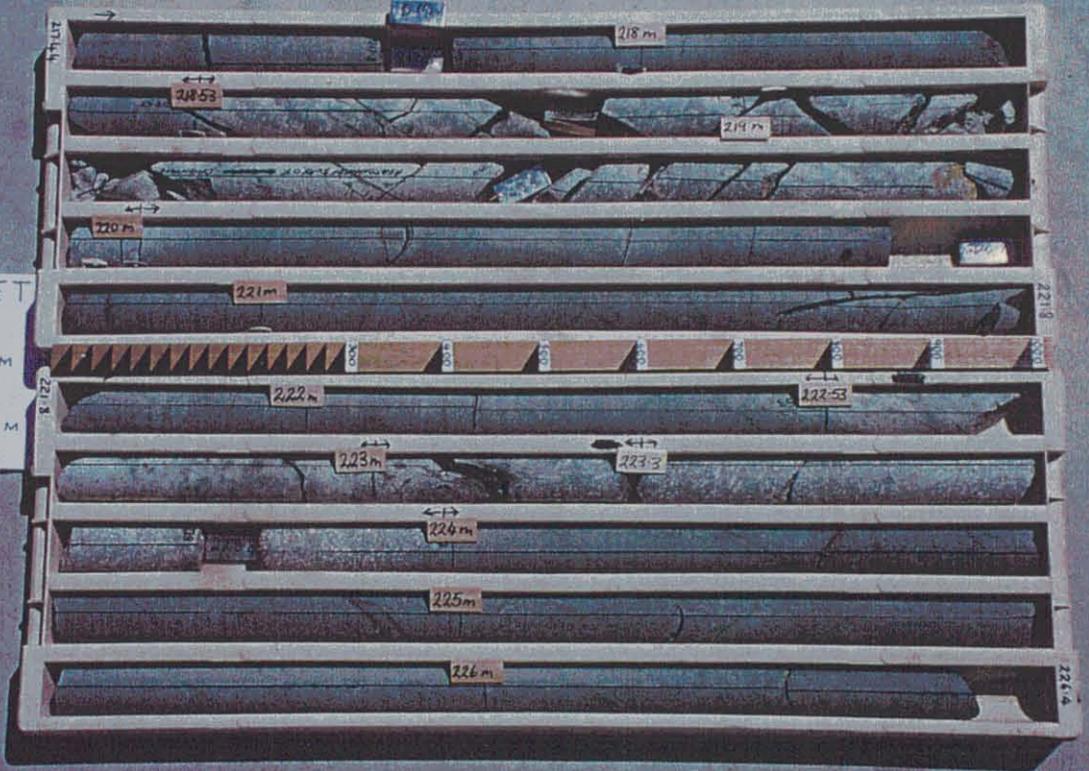
CYGNET
DPH
C.M.I.
199.15 M
TO
208 M



CYGNET
DDH
CMI
208 m
to
217.44 m



CYGNET
DDH
CMI
217.4 m
to
226.4 m



CYGNET
DDH
CMI
2265
TO
23578



DDH 3-23

CYGNET
DDH
CMI
2358m
TO
2446m



DDH 3-23

639117

CYGNET
DPH
CMI
281.56
To
290.9



CYGNET
DPH
CMI
290.9
To
299.23



639118

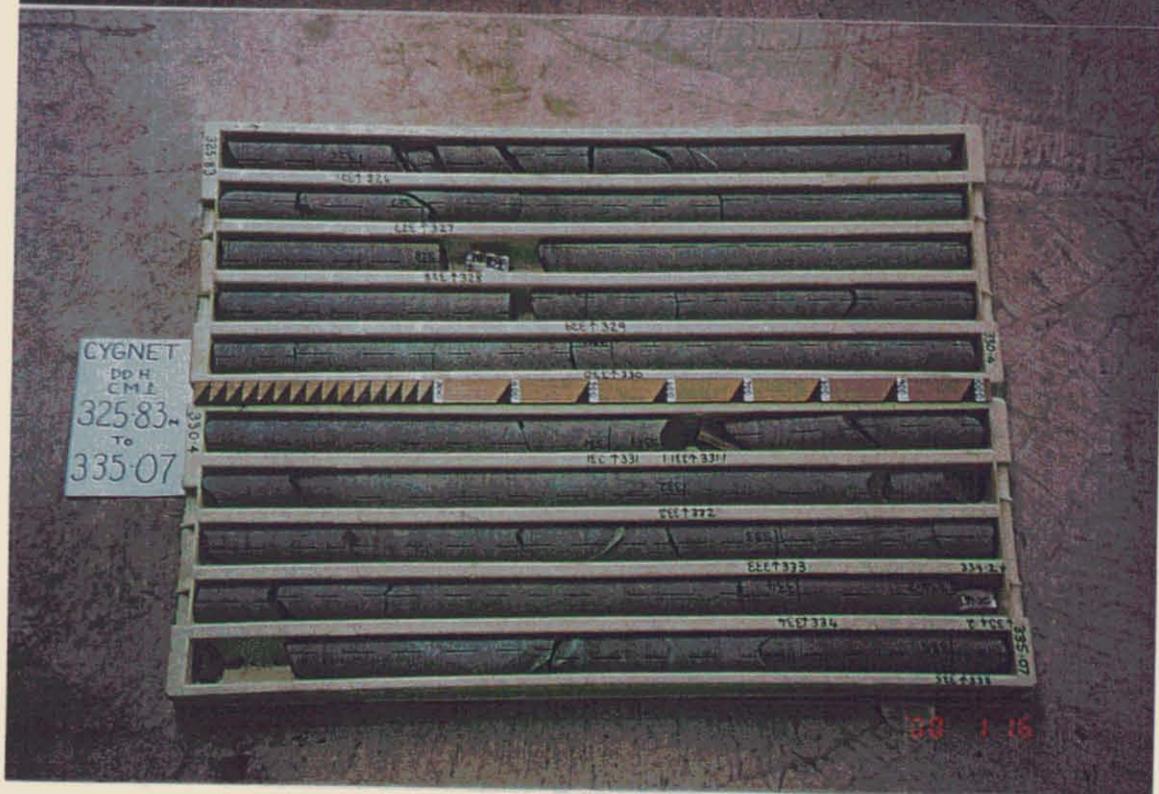
CYGNÉ
DPH
CMI
299.23
To
307.85



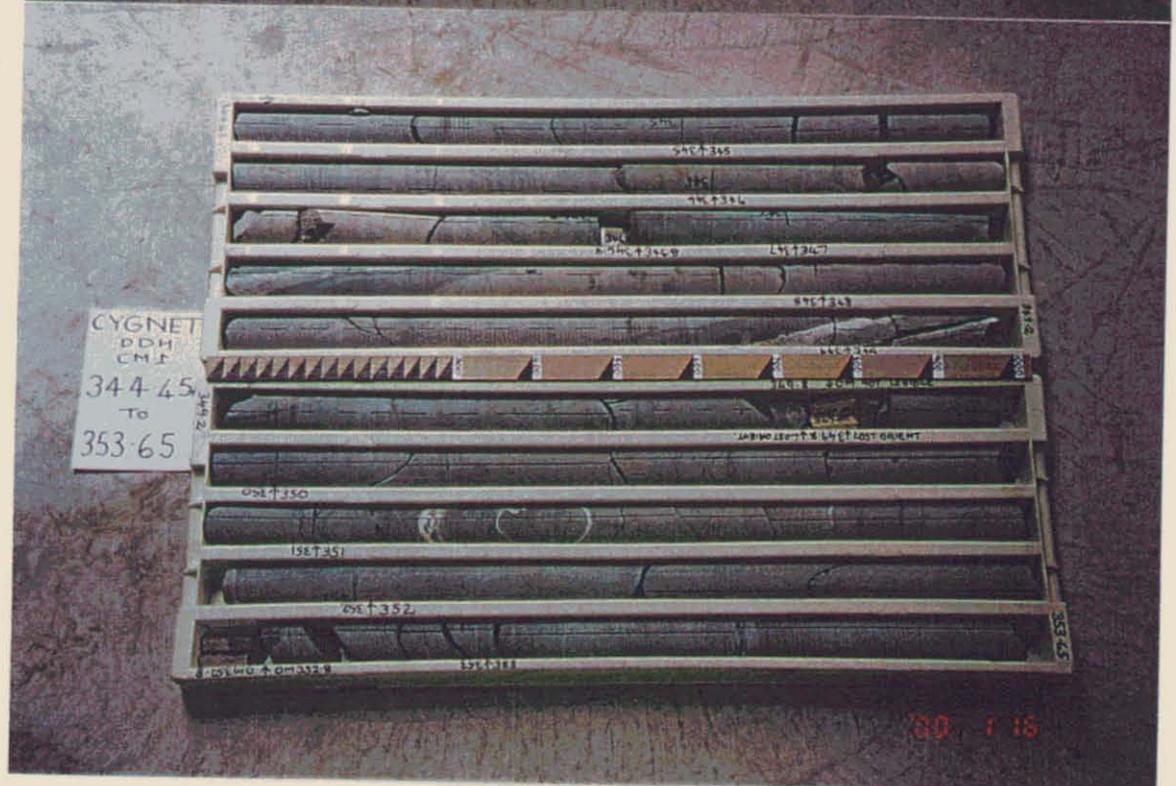
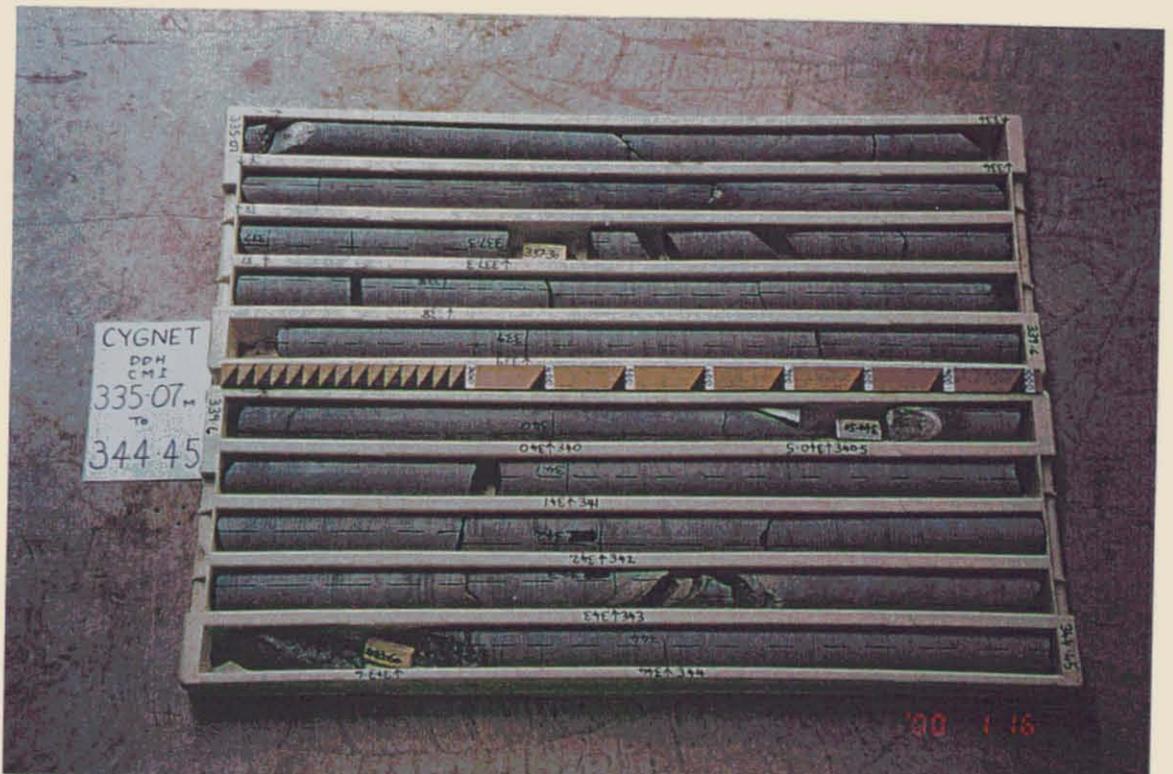
CYGNÉ
DPH
CMI
307.85
To
317.26



639119



639120





639122

CYGNET
DPH
CMI
371.68m
TO
380.82m



CYGNET
DPH
CMI
380.82m
TO
390.35m



639123

CYGNET
DDH
CMI
390.35
To
399.38m



00 1 12

CYGNET
DDH
CMI
399.38m
To
408.5 m



00 1 12



639125

CYGNET
DPH
CMI
4213
TO
4304



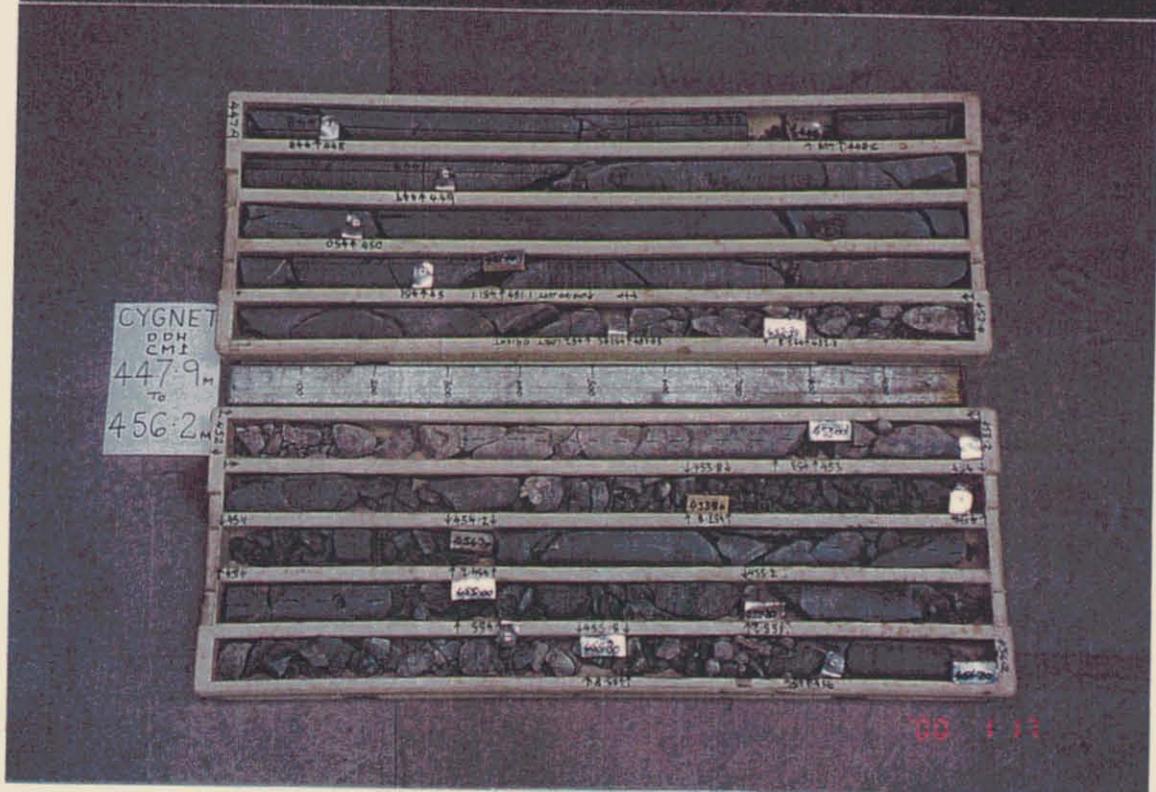
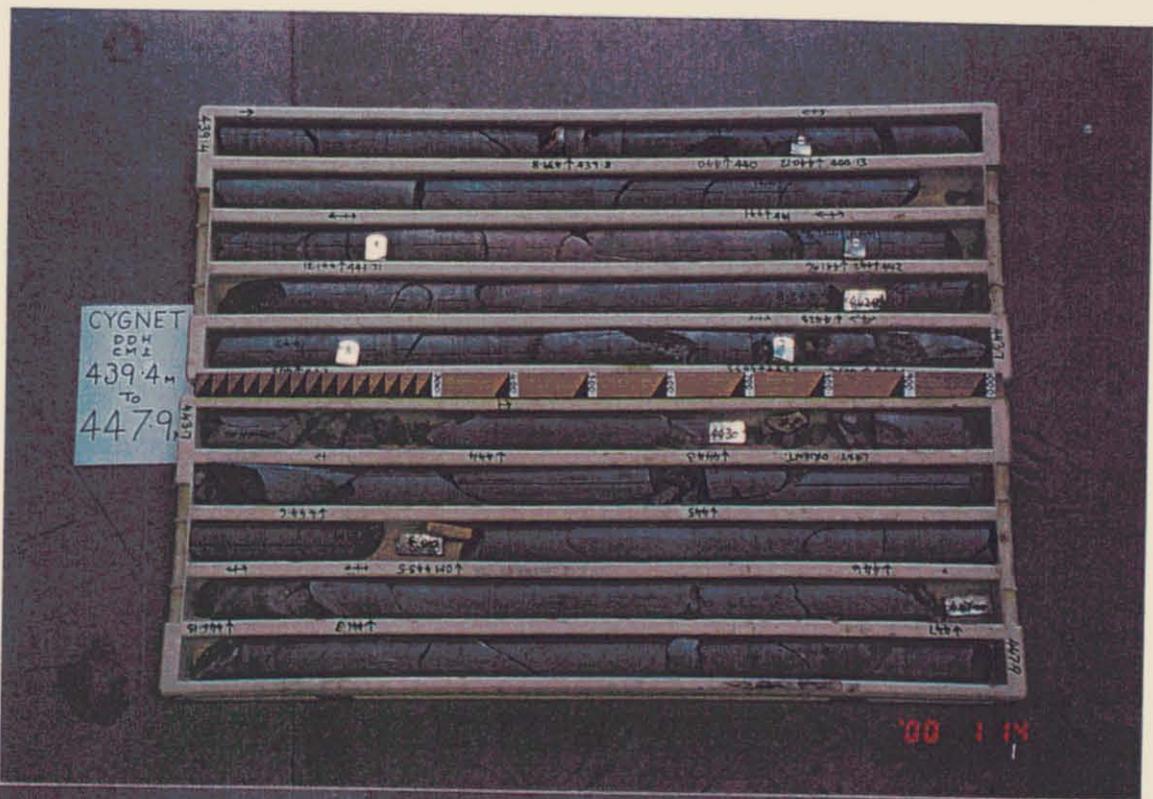
00 1 13

CYGNET
DPH
CMI
4304
TO
4394

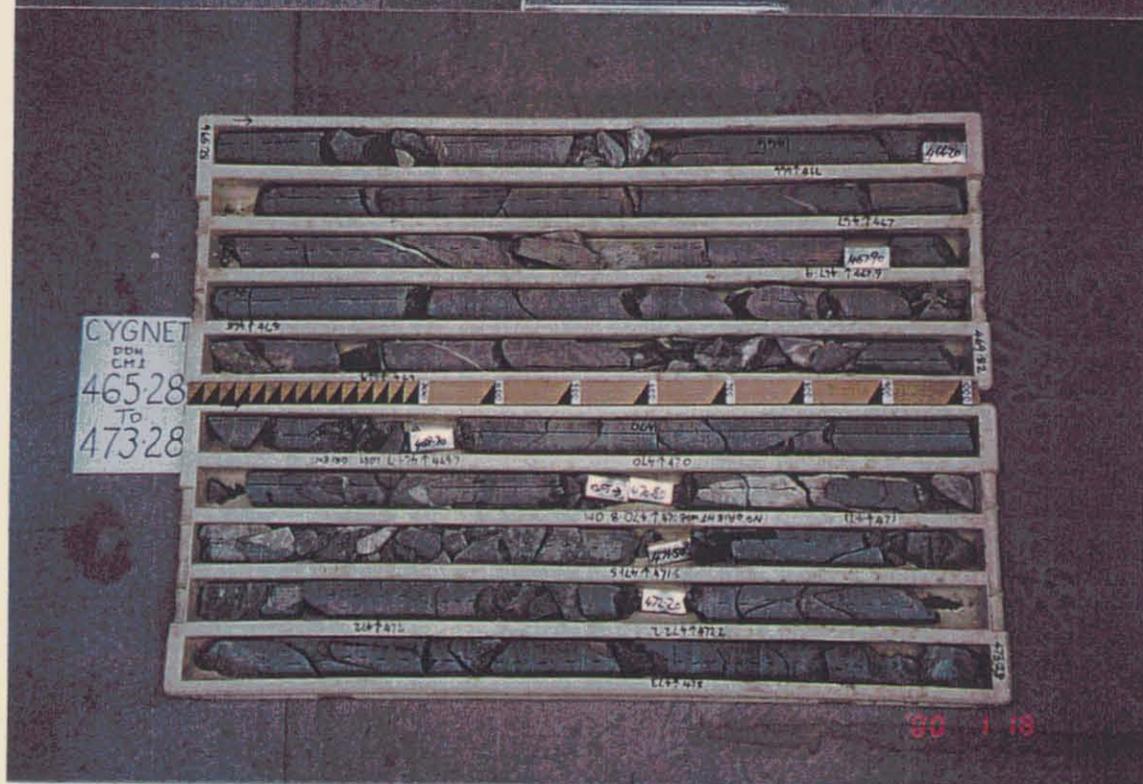
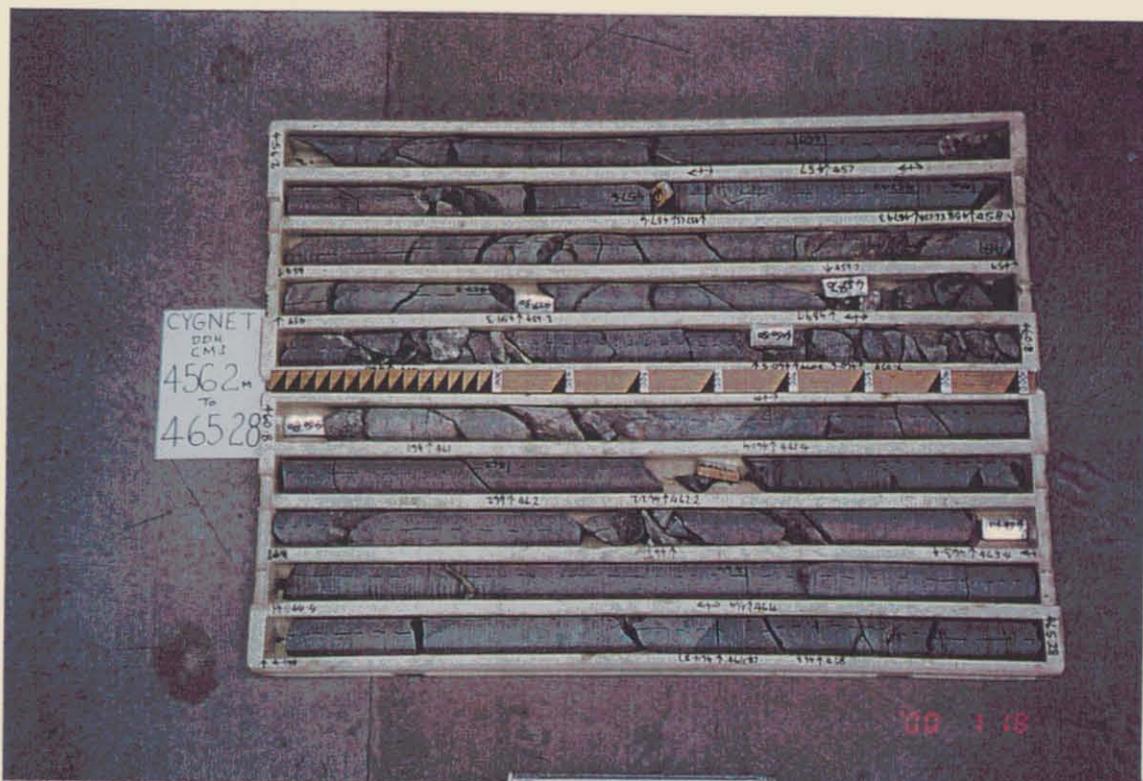


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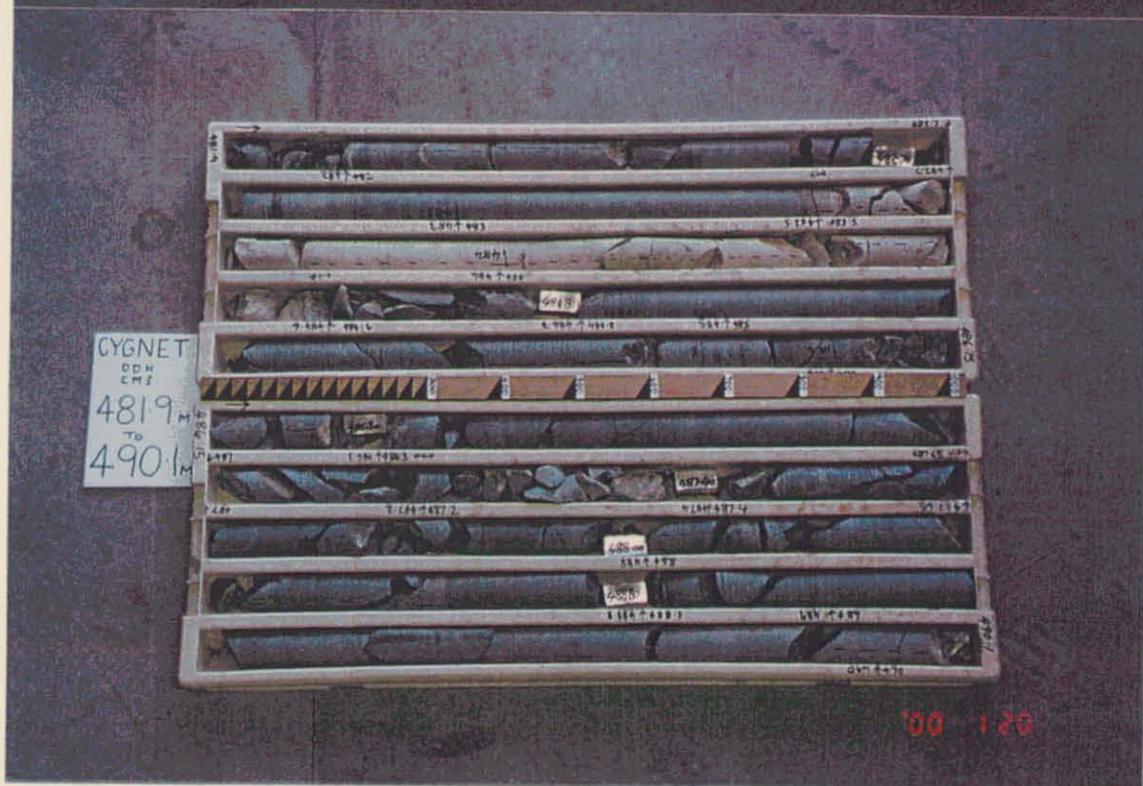
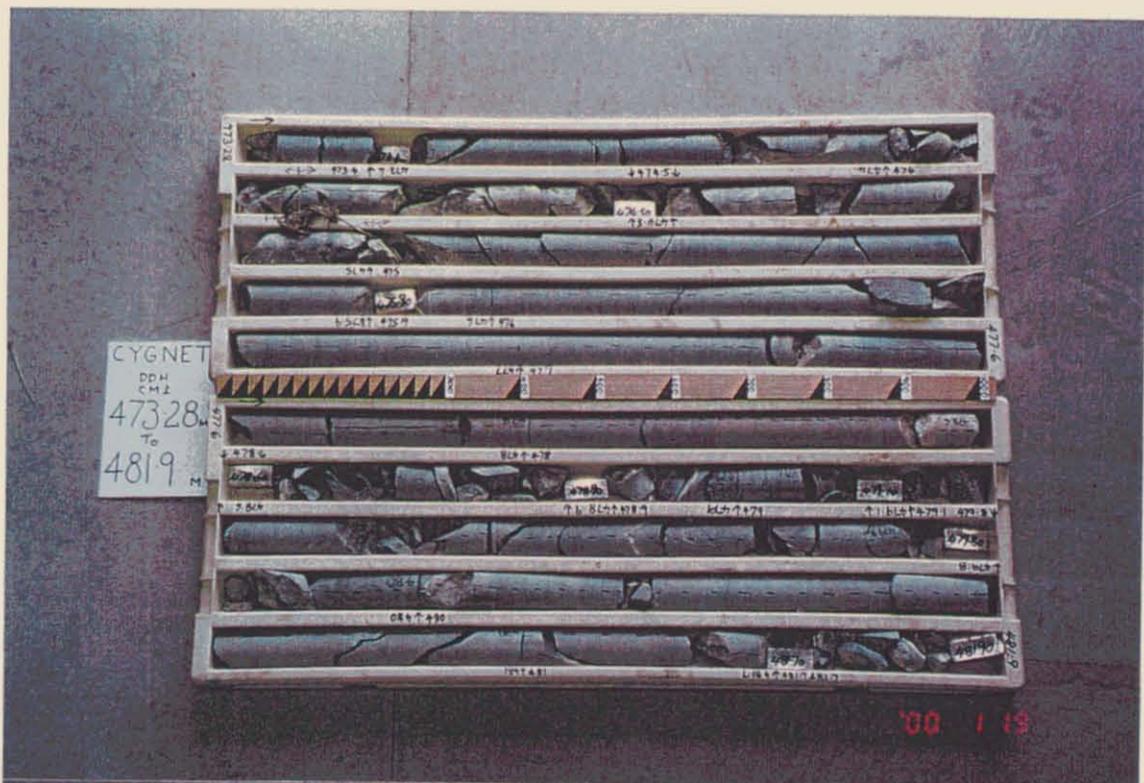
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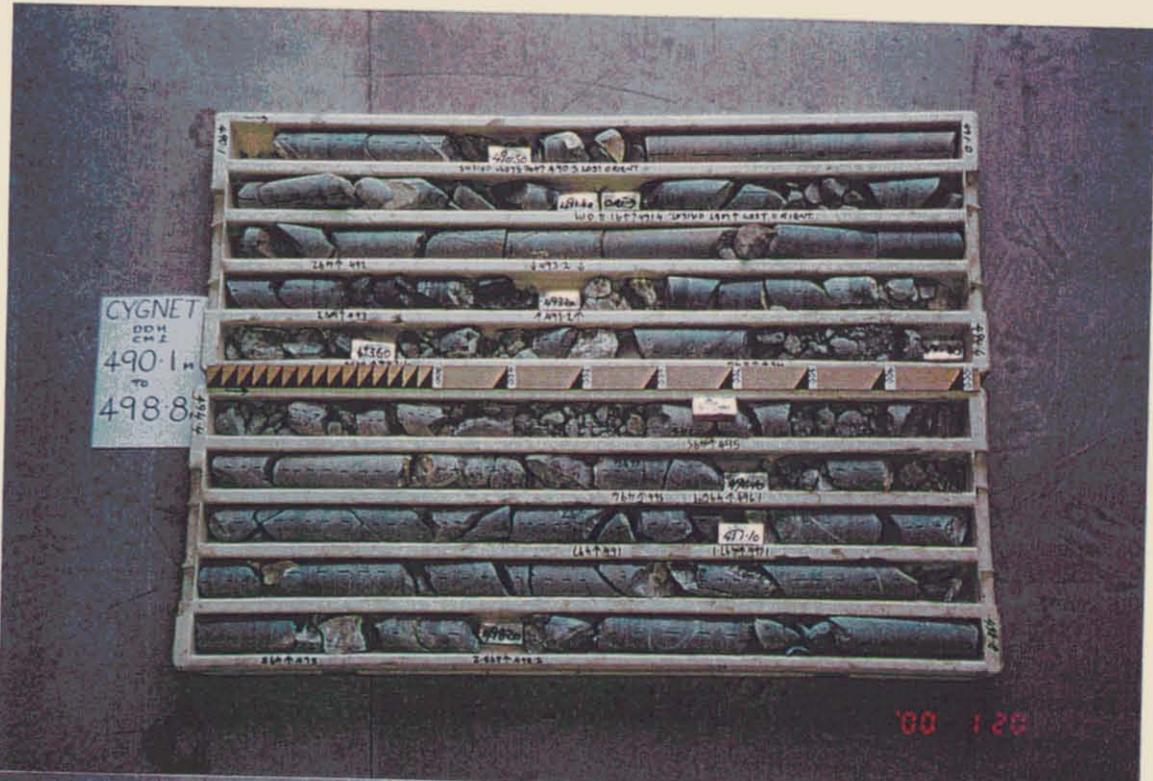
639127



639128



639129



CYGNET
DDH
CM 2
490.1m
TO
498.8m

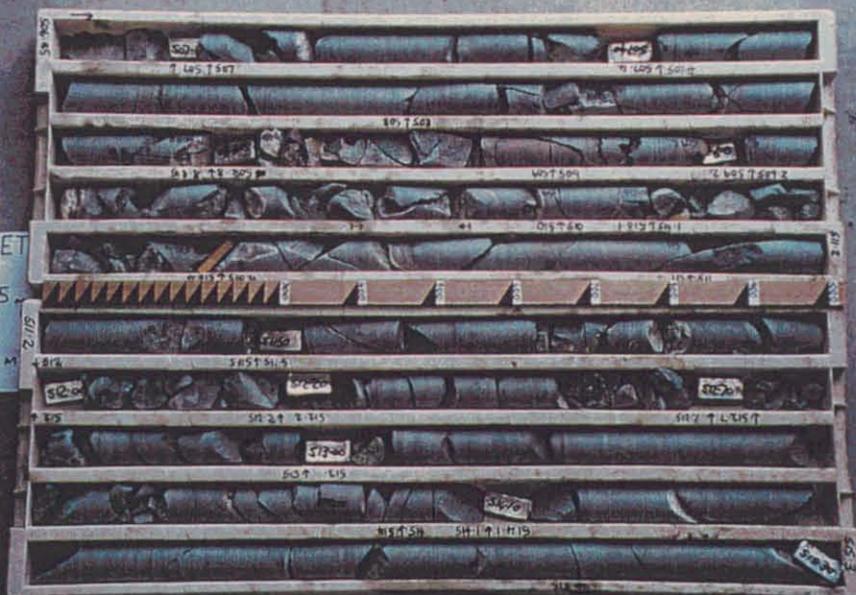


CYGNET
DDH
CM 2
498.8m
TO
506.85m

639130

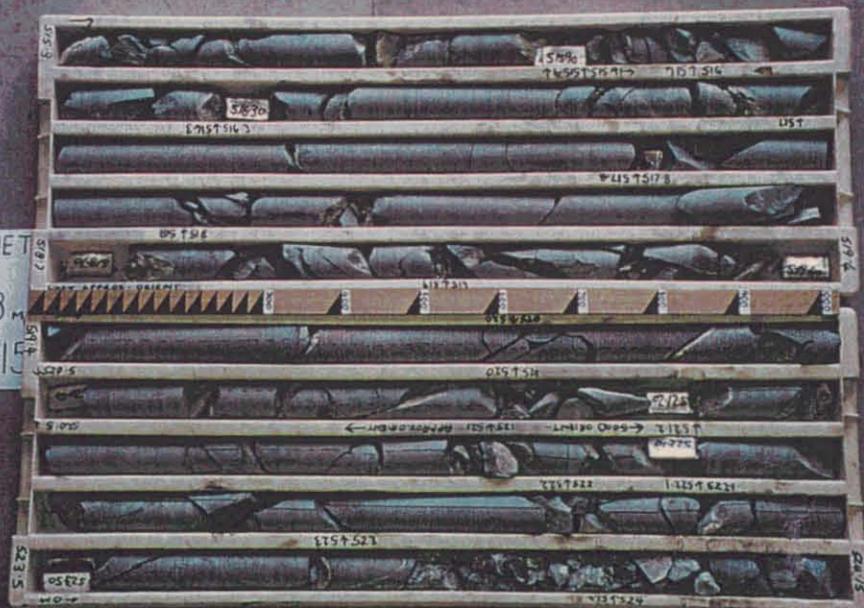
55 14

CYGNET
ODN
CM 2
50685
TO
5153



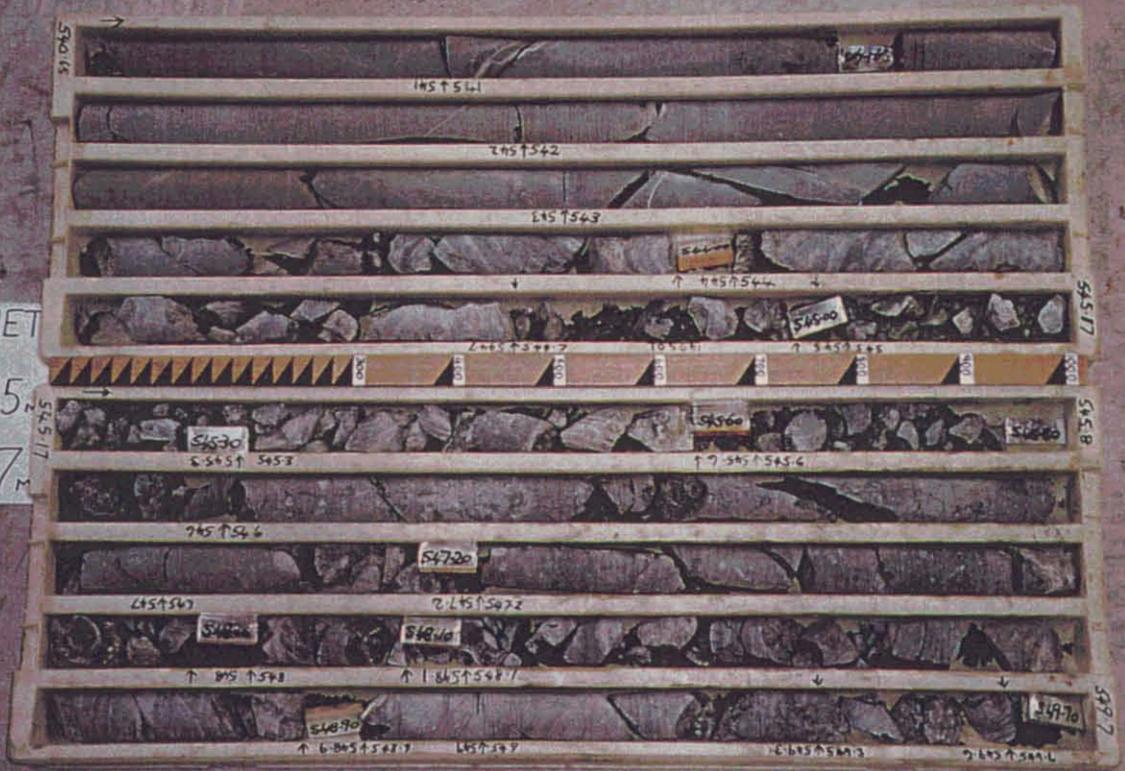
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CYGNET
ODN
CM 2
5153
TO
52415

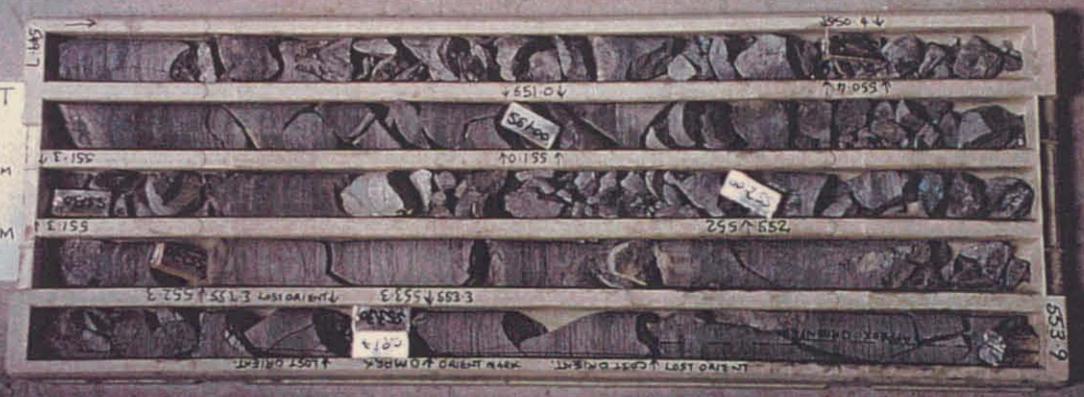


00 121

CYGNET
DDH
CM 1
540.65
To
549.7 M



CYGNET
DDH
CM 2
549.7 M
To
553.9 M
EOH

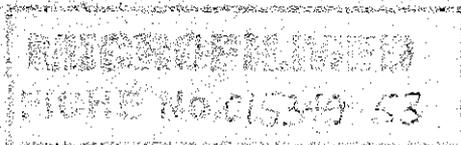


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PACIFIC-NEVADA MINING PTY LTD
Level 11, St Georges Square, 225 St Georges Terrace
Perth, Western Australia



**EL29/97 CYGNET
INTERIM REPORT TO 31.03.2000**



Volume 3 of 3

**Appendices 4 - 5
Drill logs DDH CM2 & CM3**

Prepared by N.J. Turner Geological Services Pty Ltd
65 Lochner St, West Hobart, Tasmania 7000

5th April 2000

00 4436

Interim Report to 31/03/2000 - EL 29/97 - Cynide

Pacific-Nevada Mining Proprietary Limited, Turner Ge
Turner, N.J. EL 29/97

630134

PACIFIC-NEVADA MINING PTY LTD
Level 11, St Georges Square, 225 St Georges Terrace
Perth, Western Australia

EL29/97 CYGNET
INTERIM REPORT TO 31.03.2000

Volume 3 of 3

Appendices 4 - 5
Drill logs DDH CM2 & CM3

Prepared by N.J. Turner Geological Services Pty Ltd
65 Lochner St, West Hobart, Tasmania 7000

5th April 2000

Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

APPENDIX 4

LOGS FOR DIAMOND DRILL HOLE CM-2

HOLE DETAILS
BORE HOLE SURVEYS
CORE ORIENTATION
GEOLOGICAL LOG & MAGNETIC SUSCEPTIBILITY
ANALYTICAL DATA
CHECK ANALYSES - Au
PHOTOGRAPHIC RECORD

Laboratory Methods – Analabs

Dry, jawcrush, pulverize (S033); Au by 30gm fire assay, AAS finish (F630); three acid digest (G102) with Cu Pb Zn As Ag Mn Mo by AAS (A102)

Laboratory Methods – Amdel

Pulverized samples supplied; Au by 30gm fire assay, AAS finish.

Magnetic Susceptibility

Instrument: Exploranium KT-5. Average of measurements at top, middle and bottom of 1m intervals. Corrected for core size.

DRILL LOG COVER SHEET

639130

Project: Cygnet **Exploration Licence:** EL29/97
Prospect: Mt Mary Mine **Hole Number:** CM-2

Co-ordinates AMG: E 504850 **N** 5220250 **Logged by:** Nic Turner

RL Collar: 175mASL

Azimuth: 152deg AMG

Inclination: -50deg

Depth: 400m

Hole Size:

	FROM	TO
HQ	1.5m	90.2m
NQ	90.2m	400.0m

Commenced: 27 January 2000

Completed: 16 February 2000

Drillers: Oil Mineral Exploration Drilling

Drill Type: Modified Mindrill 66

Comments: Reliable rig. Good rate of drilling for day shift only, average 25m per day. Lost water return completely at about 170m. HW casing to 4.5m.

Note: Collar co-ordinates and RL determined from plotted position of collar on orthophoto map 1:5000, Cygnet 52. Lands Dept., Hobart, 1983.

BORE HOLE SURVEYS

Project: Cygnet **Prospect:** Mt Mary Mine **EL:** EL29/9 **Hole Number:** CM-2

Depth	Inclination (deg)	Azimuth (deg AMG)	Equipment Used
000	50	152	Ausmine Single Shot Camera
050	50	155	Ausmine Single Shot Camera
100	51	156	Ausmine Single Shot Camera
150	50.8	157	Ausmine Single Shot Camera
200	48.1	159	Ausmine Single Shot Camera
250	46.8	157	Ausmine Single Shot Camera
300	45	163	Ausmine Single Shot Camera
350	42.8	162	Ausmine Single Shot Camera
400	41	167	Ausmine Single Shot Camera

Drilling Core Orientation Report

Project: Cygnet **Prospect:** Mt Mary Mine **EL:** EL29/97 **Hole Number:** CM-2
Method: Spear and Crayon

OM Depth (m)	Interval (m) From	Interval (m) To
49.6	037	48.1 approx orientation
	048.1	49.6
99.0	098.1	102.82
	102.82	108.7 approx orientation
152.8	136.4	145.5 approx orientation
	145.5	158.5
	158.5	161.1 approx orientation
196.8	192.6	209.28
248.5	232.26	260.0
297.0	263.0	290.9 approx orientation
	290.9	321.0
347.5	321.25	326.0 approx orientation
	326.0	351.0
395.5	390.25	399.0

Presentation in core trays:

1. A drillers' block (marked OM) indicates the position of the orientation mark in the core tray. The orientation marks are in red crayon.
2. For oriented intervals in uncut core, the bottom line is marked on the core.
3. For oriented intervals in cut core, the top line corresponds to the right hand edge of the cut surface when viewed down hole.

GEOLOGICAL LOG

639139

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
1	0.00	2.5	44	NO SAMPLE	0-33.4: Weathering - Soil and talus to 1.5m. Generally fresh rock to 17.29m, but with limonite on fractures. Stronger oxidation 10.25-11.5, 16-17.2. Fresh rock 17.2-31.75 with minor oxidation on fractures. Very broken core with limonite on fractures 31.75-33.4. Fresh rock below 33.4 with limonite on scattered fractures.
2	2.5	4.6	76	NO SAMPLE	1.5-3.3: Tillite=dark grey, pebbly, sandy, silty mudstone with angular to rounded clasts up to about 50mm across. Clasts are mainly fine grained quartzose sedimentary rocks, vein quartz and medium grained felsic igneous rocks. Scattered recrystallised clasts with mafic compositions and pale reaction halos. Patchy, pale grey alteration of matrix 2.0-2.25. Scattered fractures in several sets, some with fresh pyrite veinlets but mostly limonitic.
3				0.5	3.3-10.35: Large feldspar (minor, to 20mm), small feldspar (abundant, to 8mm), black hornblende (minor, few mm) porphyry with fine grained greenish groundmass. Scattered black, basaltic xenoliths. Common fractures with pyrite (py) veinlets or limonite. Minor epidote alteration. Disseminated sulphide less than 1%.
4	4.6	5.6	99	0.8	
5	5.6	6.8	80	9.0	
6	6.8	7.6	100	21.6	
7	7.6	9.1	99	8.4	
8				6.8	
9	9.1	10.6	93	5.9	
10	10.6	11.5	89	3.2	10.35-11.6: Very broken porphyry core with limonitic fractures. Some fractures coated with pale green, soft mineral (?smectite).
11	11.5	12.5	90	2.0	11.6-12.8: Large feldspar (common, to 15mm, flow aligned) with medium grey, fine grained groundmass of felsic minerals and black amphibole. About 5% disseminated py.
12	12.5	13.6	109	2.4	12.8-16.0: Large feldspar (sparse, to 20mm), small feldspar (abundant, to 8mm), black hornblende (minor, to 2mm) porphyry with pale greenish-grey, fine grained groundmass of green and felsic minerals. Common very thin fracture veinlets with pyrrhotite (po). 1-3% disseminated py.
13	13.6	14.6	98	8.6	
14	14.6	16.6	85	9.9	

Project: Cygnet

Exploration Licence: EL29/97

639140

Prospect: Mt Mary Mine

Hole Number:

CM-2

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
15				5.2	
16	16.6	17.9	68	1.6	16-17.2: Very broken porphyry core with limonitic fractures. Some fractures coated with a creamy green, soft mineral.
17	17.9	18.8	98	3.0	17.2-20.2: Large feldspar (to 15mm), small feldspar (abundant, to 8mm), black hornblende (minor, to 2mm) porphyry with fine grained, medium grey groundmass. Disseminated epidote alteration and 1-3% disseminated sulphide. Common thin acture veinlets of po. Substantial pale grey alteration of groundmass associated with fractures. Earlier intrusion than 20.2-26.7.
18	18.8	19.6	99	3.0	
19	19.6	21.1	99	8.8	
20				18.4	20.2-26.7: Large feldspar (scattered, to 40mm), small feldspar (common, to 5mm), black hornblende (minor, to 2mm) porphyry with fine grained, medium grey groundmass. Rare black hornblende to 13mm. A few basaltic xenoliths. 1-3% disseminated sulphide. Disseminated epidote alteration common. Common thin fracture veinlets with sulphide, minor epidote. Notable po veinlet 21.25-21.68.
21	21.1	22.6	93	26.1	
22	22.6	23.7	91	67.5	
23	23.7	25.6	94	41.1	
24				60.8	
25	25.6	27.1	98	57.4	26.7-31.75: Similar porphyry to 20.2-26.7, but with greenish-grey groundmass showing fracture related, pale alteration in parts eg 28.88-29.8. Small mafic xenoliths present, also coarse grained syenite. Common thin py veinlets. Some epidote veinlets. A few black hornblende grains to 10mm, with sulphide replacement.
26				26.4	
27	27.1	28.6	100	42.2	
28	28.6	30.1	100	34.6	
29				22.3	

Project: Cygnet
 Prospect: Mt Mary Mine

Exploration Licence: EL29/97

Hole Number: CM-2

600141

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
30	30.1	31.3	97	20.9	
31	31.3	32.8	60+/-	5.2	31.75-33.4: Very broken porphyry core with limonitic fractures.
32	32.8	33.4	60+/-	4.7	
33	33.4	34.0	99	12.1	33.4-41.3: Small feldspar (abundant, to 6mm), black hornblende (minor) porphyry with fine grained, medium grey groundmass. Scattered mafic xenoliths. Substantial fracture related, pale grey to cream alteration of groundmass. Disseminated epidote alteration. About 1% disseminated sulphide. Common thin fracture veinlets in several sets with sulphide, epidote, quartz eg 38.59-39.
34	34.0	35.0	80	3.8	
35	35.0	36.5	98	8.8	
36	36.5	37.6	99	6.5	
37	37.6	39.1	99	19.8	
38				1.2	
39	39.1	40.40	98	2.4	
40	40.40	42.0	98	.8	
41				.8	41.3-41.65: Tillite with very thin, pale alteration along fractures.
42	42.0	43.6	98	16.6	41.65-45.02: Large feldspar (common, to 25mm, flow alignment), black hornblende (subordinate, to 3mm) porphyry with fine grained groundmass that passes from medium grey to pale grey. Minor epidote alteration. About 1% disseminated sulphide. Scattered fractures with minor alteration and a little sulphide veining.
43	43.6	45.1	94	13.6	
44				20.7	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

030140

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
45	45.1	46.6	99	1.1	45.02-56.2: Small feldspar (abundant, to 6mm), black hornblende (subordinate, to 3mm) porphyry with very fine grained, medium greenish-grey groundmass. Small, medium green prisms and patches of ?pyroxene. Minor epidote alteration. Pale alteration of groundmass along common, planar fractures (several sets) which may contain very thin sulphide veinlets.
46	46.6	48.1	103	3.2	
47				3.6	
48	48.1	49.6	100	.6	
49	49.6	50.6	90	6.0	
50	50.6	52.2	97	13.3	
51				.7	
52	52.2	53.8	99	.9	
53	53.8	55.3	99	.3	
54				.4	
55	55.3	56.2	100	.6	
56	56.2	57.4	98	.3	56.2-74.6: Tillite. Dark grey with angular to rounded clasts up to 70mm. Mainly fine grained quartzose sandstone with vein quartz, quartz-feldspar porphyry and black siltstone. Rare recrystallised clasts with actinolite-epidote-po assemblages and narrow, pale reaction halos. Veinlets are uncommon and some have associated, pale alteration of matrix. Minor sulphide.
57	57.4	58.6	100	.5	
58	58.6	60.1	98	.3	
59				.5	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

639149

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
60	60.1	61.2	73	.5	
61	61.2	62.6	99	.4	
62	62.6	64.0	86	.6	
63				.3	
64	64.0	65.5	106	.4	
65	65.5	66.9	90	.3	
66	66.9	67.3	97	.3	
67	67.3	68.9	98	.6	
68	68.9	70.5	100	.4	
69				.3	
70	70.5	72.0	106	.5	
71				.3	
72	72.0	73.0	94	.3	
73	73.0	74.2	112	.4	
74	74.2	75.9	94	.3	74.6-75.05: Unusual coarse grained, even grained granitoid consisting of quartz, feldspar and black hornblende. Finely fractured with silicate veinlets in fractures.
75	75.9	76.6	110	.3	75.05-90.2: Tillite like 56.2-74.6. Fractures have minor, associated pale alteration eg 78.3-79.15 and contain very thin sulphide veinlets. Epidote-minor sulphide veinlets cut the pale alteration eg 86.7.
76	76.6	77.5	88	.3	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

639144

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
77	77.5	78.2	100	.4	
78	78.2	80.2	98	.3	
79				.3	
80	80.2	81.6	93	.4	
81	81.6	82.6	100	.4	
82	82.6	84.0	100	.3	
83				.7	
84	84.0	85.1	86	.5	
85	85.1	86.7	100	.5	
86	86.7	88.1	100	.6	
87				.6	
88	88.1	89.5	100	.5	
89	89.5	90.2	99	.36	
90	90.2	93.0	98	.4	90.2-End of HQ.90.2-133.55: Tillite with clasts of quartzose sandstone, vein quartz, fine grained felsic porphyry, granitoid and rare gneiss. A few recrystallised mafic clasts. Several intervals in which matrix ranges medium grey to cream due to silicification associated with fractures of irregular orientation. Notably common 124-133. Alteration cut by actinolite-pyrite-mt veinlets with marginal epidote, also sulphide and sulphide-mt veinlets.
91				.36	
92				.4	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

630145

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
93	93.0	95.0	98	.4	
94				.6	
95	95.0	98.1	97	.5	
96				.6	
97				0.3	
98	98.1	99.0	100	3.1	
99	99.0	102.0	100	.6	
100				.6	
101				.3	
102	102.0	105.0	100	.3	
103				.3	
104				.3	
105	105.0	106.6	100	.4	
106	106.6	109.3	98	.3	
107				.4	
108				.4	
109	109.3	111.1	99	2.9	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

600140

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
110				16.7	
111	111.1	113.1	100	20.7	
112				26.6	
113	113.1	115.9	99	7.1	
114				2.6	
115	115.9	118.9	107	1.0	
116				2.7	
117				3.1	
118	118.9	122.0	95	2.5	
119				1.0	
120				4.5	
121				.6	
122	122.0	125.1	97	.5	
123				.3	
124				.3	
125	125.1	127.8	103	.6	
126				.5	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

639147

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
127	127.8	129.0	99	2.1	
128				8	
129	129.0	131.7	99	.7	
130				.2	
131	131.7	134.0	99	.3	
132				2.1	
133				.5	133.55-134.04: Large feldspar (sparse, to 30mm), black hornblende (abundant, to 3mm) porphyry with medium grey, unaltered groundmass.
134	134.0	136.4	100	.6	134.04-139.4: Tillite with patches of pale, fracture-related alteration (eg 136.78-137.4) that is cut by actinolite-minor sulphide veinlets.
135				74.8	
136	136.4	138.0	98	.6	
137				.4	
138	138.0	141.0	102	.7	
139				10.2	139.4-140.55: Large feldspar (sparse, to 20mm), small feldspar (abundant, to 6mm) porphyry with minor laths of medium green ?pyroxene in a fine grained medium greenish-grey groundmass. About 1% disseminated sulphide. Common disseminated epidote alteration. Pale alteration of groundmass associated with fractures, some of which contain thin sulphide veinlets.
140				5.4	140.55-147.05: Tillite with patches of pale silicification eg 146.35-146.65.
141	141.0	143.3	94	.4	
142				.4	

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-2

630116

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
143	143.3	145.4	106	.4	
144				.4	
145	145.4	146.8	99	.5	
146	146.8	149.9	100	.5	
147				24.4	147.05-157.99: Large feldspar (sparse, to 25mm), small feldspar (abundant, to 6mm), black hornblende, green ?pyroxene porphyry with fine grained, medium grey groundmass. Patchy pale alteration of groundmass. About 1-3% disseminated sulphide, no epidote alteration. Common fractures containing sulphide veinlets.
148				35.2	
149	149.9	152.8	91	27.4	
150				11.0	
151				16.0	
152	152.8	155.5	113	18.3	
153				25.3	
154				24.0	
155	155.5	158.6	97	8.4	
156				25.3	
157				21.5	157.99-192.0: Tillite with a few patches of fracture related, pale alteration of matrix eg 157.99-158.9, 163.75-164.2. Minor sulphide on fractures. A few more prominent fractures with silicate-sulphide veinlets eg 168.6, 170.2 (with adjacent pale alteration). Large recrystallised clast at 182.2 with epidote, dark silicate, carbonate, sulphide, magnetite assemblage.
158	158.6	161.1	99	1.5	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

630149

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
159				.5	
160				34	
161	161.1	163.2	100	2.8	
162				.3	
163	163.2	165.0	90	1.3	
164				.3	
165	165.0	167.2	100	.3	
166				.5	
167	167.2	170.1	100	.3	
168				.3	
169				.3	
170	170.1	173.2	99	.6	
171				.3	
172				.4	
173	173.2	175.9	100	.3	
174				.7	
175	175.9	177.1	98	.5	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

639150

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
176				.9	
177	177.1	177.9	81	.2	
178	177.9	180.0	99	.2	
179				.26	
180	180.0	181.4	93	.4	
181	181.4	183.0	99	.4	
182				16.0	
183	183.0	183.9	70	.3	
184	183.9	185.7	95	.3	
185	185.7	187.9	95	.3	
186				.5	
187	187.9	188.7	70	.2	
188	188.7	191.2	104	.3	
189				.3	
190				.3	
191	191.2	192.6	79	.2	
192	192.6	195.0	98	.2	192.0-207.75: Tillite with more common, recrystallised clasts with prominent pale halos. Weak pale matrix alteration 193.67-194.33. Thin planar fracture veinlets with sulphide scattered throughout. Small porphyry 207.2-207.3.

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

630151

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
193				.3	
194				.3	
195	195.0	196.8	105	.3	
196	196.8	199.9	98	.3	
197				.3	
198				2.8	
199	199.9	202.9	97	.5	
200				.4	
201				.4	
202	202.9	205.2	102	.3	
203				.3	
204				.3	
205	205.2	207.0	97	.4	
206				.3	
207	207.0	208.5	97	.3	207.75-218.0: Pebbles grade out after 206. Pass into dark grey mudstone with common fractures containing sulphide veinlets eg 209.25-209.75. Estimate 3% sulphide overall. Fractures with minor pale alteration and sulphide veinlets at 214-214.6. No fissility as there is in mudstone in CM-1.
208	208.5	210.0	94	.5	
209				5	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

633159

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
210	210.0	211.3	99	3.4	
211	211.3	213.0	100	3.7	
212				4.3	
213	213.0	214.6	94	1.8	
214	214.6	217.7	100	.6	
215				1.1	
216				1.4	
217	217.7	220.8	103	.8	
218				1.1	218.0-220.55: Mudstone with granules and scattered small pebbles.
219				.4	220.55-223.8: Large feldspar (sparse, to 25mm), small feldspar (abundant, to 6mm), black hornblende, green ?pyroxene porphyry with very fine grained, medium grey groundmass. Disseminated sulphide - some replacing hornblende, also sulphide veinlets in fractures. Estimated 3-5% sulphide overall. Pale alteration of groundmass associated with fractures.
220	220.8	223.9	97	16.7	
221				11.6	
222				38.1	
223	223.9	226.9	107	19.4	223.8-224.9: Mudstone containing granules. Fractures have associated pale alteration of matrix, and contain sulphide veinlets.
224				6.6	224.9-225.6: Large feldspar (common, to 15mm), ?quartz, black hornblende, ?pyroxene porphyry with medium grey groundmass. Sulphide disseminated and in fracture veinlets, totals about 3-5%. Minor epidote in some fractures.
225				15.4	225.6-230.5: Mudstone with common fractures and pale alteration eg 226.86-228.6. Common sulphide veinlets in fractures.

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-2

639153

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
226	226.9	228.7	90	2.2	
227				5.3	
228	228.7	230.5	92	.2	
229				.2	
230	230.5	233.1	98	23.2	230.5-231.0: Black hornblende (abundant, to 3mm), ?pyroxene (subordinate, small pale laths) porphyry with pale grey groundmass. Lamprophyre.
231				2.6	231.0-242.4: Mudstone with sparse pebbles and granules. Weak pale alteration associated with fractures throughout - stronger 235.8-236.62, 241.28-242.4. Scattered, very thin sulphide veinlets.
232				5.8	
233	233.1	236.2	102	5.4	
234				6.1	
235				3.8	
236	236.2	239.3	95	2.2	
237				4.0	
238				.6	
239	239.3	242.3	101	1.0	
240				3.1	
241				1.2	
242	242.3	245.4	99	29.4	242.4: Dolerite contact at 60deg to core axis.

Project: Cygnet
Prospect: Mt Mary Mine

Exploration Licence: EL29/97
Hole Number: CM-2

Logged by: Nic Turner

080157

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
243				27.9	242.4-256.5: Dolerite. Transitional from fine grained to medium grained at about 250m. Small patches of coarse grained alteration and recrystallisation are associated with common planar fractures belonging to several sets. The coarse grained alteration consists of relatively large amphibole grains set in a medium grained felsic groundmass. There are thin veinlets in the planar fractures containing green silicate (probably both actinolite and chlorite), common sulphide, mt, quartz. Some fractures contain late, median carbonate veinlets eg 249.4. Some fractures are associated with minor pale alteration.
244				26.9	
245	245.4	248.5	99	43.9	
246				46.2	
247				51.8	
248	248.5	251.6	101	54.4	
249				40.5	
250				30.8	
251	251.6	254.7	96	37.9	
252				30.7	
253				41.1	
254	254.7	257.7	103	39.3	
255				41.8	
256				45.7	256.5-261.7: Dolerite with dominant coarse grained alteration which is not so sharply defined as in CM-1, possibly indicating another later, superimposed alteration phase. Disseminated sulphide and magnetite are present. There are numerous fracture veinlets belonging to several sets, which contain green silicate, sulphide and minor quartz.
257	257.7	260.0	104	51.7	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

689153

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
258				62.0	
259				70.5	
260	260.0	263.0	97	54.7	
261				45.8	261.7-272.25: Small feldspar (abundant, to 10mm), black hornblende, green ?pyroxene porphyry with very fine grained, medium grey groundmass. Similar style of multiple fracture veining as in dolerite. Pale alteration of the groundmass is associated with the fractures, notably 266-269. Sulphide is present in fracure veinlets. It is also disseminated, commonly replacing hornblende.
262				6.0	
263	263.1	265.3	100	7.2	
264				12.9	
265	265.3	267.0	85	21.7	
266				11.6	
267	267.0	270.0	103	4.4	
268				8.4	
269				2.3	
270	270.0	273.0	99	8.9	
271				21.4	
272				.2	272.25-274.45: Large feldspar (sparse, to 15mm), strongly altered porphyry with very fine grained, pale grey groundmass. About 3% sulphide overall, in veinlets and replacing black hornblende.
273	273.0	276.0	103	6.6	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

030100

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
274				44.3	274.45-293.55: Dolerite with dominant coarse grained alteration, much of it further altered by a fracture-related, greenish phase of chlorite-epidote-quartz-sulphide-mt. Up to 25% disseminated sulphide in places. Also, common disseminated mt. Common fracture veinlets in several sets with sulphide > mt. Sulphide veinlets particularly abundant 281.4-282.04. Maybe 10% sulphide overall, in fracture veinlets and disseminated.
275				59.3	
276	276.0	279.0	87	47.4	
277				48.8	
278				32.2	
279	279.0	281.7	103	44.4	
280				66.6	
281	281.7	284.7	103	36.9	
282				90.0	
283				52.1	
284	284.7	287.8	100	30.7	
285				112.8	
286				101.4	
287	287.8	290.9	95	57.7	
288				116.0	
289				101.4	

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-2

639157

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
290	290.9	294.0	100	79.3	
291				88.4	
292				86.6	
293				41.8	293.55-299.1: Multiple porphyry intrusions. 293.55-293.8: Small feldspar (abundant, to 3mm) porphyry with medium grey groundmass. 293.8-294.7: Large feldspar (sparse, to 15mm), strongly altered porphyry with pale grey groundmass. 294.7-297.8: Large feldspar (sparse, to 30mm), small feldspar (abundant, to 5mm) porphyry with very fine grained, medium grey groundmass. 297.8-298.6: Medium grained diorite. 298.6-298.75: Very fine grained, dark grey porphyry. 298.75-299.1: Small feldspar (sparse, to 10mm) altered porphyry with medium grey groundmass.
294	294.0	297.0	103	18.9	
295				29.1	
296				31.5	
297	297.0	300.0	95	33.9	
298				30.2	
299				75.1	299.1-315.5: Dolerite with substantial coarse grained alteration that is clearly related to fractures. Many fractures contain sulphide. Small porphyry intrusions 300.65-300.75, 309.9-310.
300	300.0	306.0	100	75.3	
301				62.9	
302				68.4	
303				76.3	
304				73.1	
305				73.2	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

630153

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
306	306.0	309.0	100	79.0	
307				72.8	
308				53.3	
309	309.0	312.0	97	64.0	
310				53.2	
311				59.3	
312	312.0	315.0	100	96.3	
313				85.1	
314				82.9	
315	315.0	318.0	98	98.8	315.5-320.7: Dolerite. Similar 299.1-315.5, but with patchy, fracture-related secondary alteration - probably chlorite, epidote, quartz, sulphide. At least 3 sets of fractures. Probably 1-3% sulphide overall.
316				72.0	
317				70.8	
318	318.0	321.0	98	57.6	
319				75.9	
320				44.9	320.7-321.2: Large feldspar (abundant, to 25mm, flow alignment), black hornblende porphyry with very fine grained, medium grey groundmass. A few mafic xenoliths. Minor pale alteration associated with sparse fractures which contain sulphide veinlets.
321	321.0	322.8	94	48.8	321.2-327.25: Dolerite with dominant coarse grained alteration. Particularly strong 322.7-323.8. Cut by numerous fracture veinlets containing green silicate-epidote-quartz-sulphide-mt.
322	322.8	325.9	99	66.5	

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-2

630159

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
323				63.4	
324				80.4	
325	325.9	329.0	100	83.7	
326				79.5	
327				52.8	327.25-327.8: Small feldspar (abundant, to 8mm), black hornblende porphyry with very fine grained, pale to medium grey groundmass. Hornblende appears to be mostly altered and partly replaced by sulphide. About 5-10% sulphide overall, disseminated and in fracture veinlets. Epidote in some veinlets.
328				82.8	327.8-340.08: Dolerite with dominant coarse grained alteration. Very inhomogeneous with coarser and finer patches, paler and darker patches. Abundant fractures in several sets. Greenish, fracture related alteration commonly super-imposed. High sulphide (15-20%) in silicate-sulphide vein 339.89-340.08.
329	329.0	332.1	100	109.4	
330				90.6	
331				92.4	
332	332.1	335.2	98	107.8	
333				130.4	
334				120.3	
335	335.2	338.2	101	145.2	
336				101.5	
337				87.6	
338	338.2	341.3	100	89.4	

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-2

639100

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
339				95.8	
340				27.3	340.08-340.7: Large feldspar (sparse, to 30mm), small feldspar (abundant, to 6mm), black hornblende porphyry with very fine grained, pale to dark grey groundmass. Sulphide disseminated, much replacing hornblende. Also in thin fracture veinlets. About 10% sulphide overall.
341	341.3	344.4	100	44.5	340.7-361.45: Dolerite with dominant coarse grained alteration. Abundant fractures in several sets. Greenish alteration is superimposed. Veinlets of green silicate-quartz-sulphide in fractures. Core becomes broken after 357.6, very broken 358.9-359.1
342				58.4	
343				43.2	
344	344.4	347.5	100	82.9	
345				96.5	
346				69.8	
347	347.5	350.6	100	30.0	
348				40.8	
349				180.7	
350	350.6	353.6	93	63.6	
351				87.0	
352				20.7	
353	353.6	356.6	97	21.7	
354				76.1	

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-2

630161

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
355				57.0	
356	356.6	360.2	70	48.8	
357				10.7	
358				10.6	
359				59.0	
360	360.2	362.7	56	68.4	
361				29.2	361.45-362.7: Fault. Very broken core with polished, slickensided surfaces at 25deg to core axis. Slickensides on polished surface are perpendicular to the core axis.
362	362.7	363.3	67	28.7	362.7-400.0: Diorite. Single intrusion of medium grained, medium grey rock consisting of quartz, feldspar, black hornblende and green ?amphibole. Characterised by striking, euhedral black hornblende grains up to 5mm across. In places these grains occur as clusters. There are very sparse feldspar megacrysts to 30mm. Sulphide is low throughout. Fine grained, mafic xenoliths are common, ranging up to about 50mm across, and occurring as clusters in places. There are common planar fractures with very thin, pale altered margins. Some fractures contain quartz veins with a little sulphide. At 392.9-393 there is a small leucocratic intrusion with euhedral hornblende. At 398-400 the core is broken with limonitic fractues.
363	363.3	364.3	20	15.7	
364	364.3	365.1	99	7.6	
365	365.1	366.0	99	19.2	
366	366.0	368.0	102	22.1	
367				20.3	
368	368.0	370.7	98	23.2	
369				21.5	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

600162

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
370	370.7	373.8	97	19.0	
371				24.6	
372				25.0	
373	373.8	376.9	100	20.5	
374				14.5	
375				11.9	
376	376.9	379.9	97	19.1	
377				13.3	
378				12.4	
379	379.9	381.2	98	2.1	
380				1.6	
381	381.2	383.9	93	9.0	
382				5.1	
383	383.9	386.4	104	4.5	
384				8.7	
385				12.6	
386	386.4	387.9	99	16.4	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-2

Logged by: Nic Turner

639163

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
387	387.9	389.5	94	6.2	
388				14.9	
389	389.5	392.5	98	12.9	
390				18.9	
391				15.9	
392	392.5	395.5	103	19.0	
393				14.1	
394				19.4	
395	395.5	398.6	97	23.0	
396				14.0	
397				19.1	
398	398.6	400.0	70	22.0	
399				2.9	
400	400.0				END OF HOLE

ASSAYS

Project: Cygnet

Prospect: Mt Mary Mine

Exploration Licence: EL29/97

Hole Number: CM-2

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm																
	Detection Limit		0.01	0.01	2	3	2	1	50	5																
	From	To	Method F630	F630	A102	A102	A102	A102	A102	A102	A102															
		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	
140498	2	3.3	-0.01	-9000		64		3		50		-1		-50												
140499	3.3	3.75	0.1	0.09		174		15		23		-1		-50												
140500	3.75	5	0.01	-9000		215		7		24		-1		-50												
140503	5	5.6	-0.01	-9000		49		16		43		-1		-50												
140504	8.94	9.8	-0.01	-9000		16		20		55		-1		-50												
140505	10.9	11.35	0.03	-9000		25		15		181		-1		-50												
140506	13.96	14.3	-0.01	-9000		59		34		87		-1		-50												
140507	16.03	17.29	0.06	0.06		59		19		90		-1		-50												
140508	17.29	18.3	0.02	0.02		91		25		57		-1		-50												
140509	21.45	21.68	-0.01	-0.01		8		10		62		-1		-50												
140510	23.02	24	-0.01	-9000		38		9		57		-1		-50												
140511	25.05	25.53	-0.01	-9000		22		10		65		-1		-50												
140512	26.82	27.4	0.01	-9000		62		26		33		-1		-50												
140513	28.88	29.8	0.02	-9000		122		36		65		-1		-50												
140514	30.95	31.75	-0.01	-9000		114		15		41		-1		-50												
140515	35.55	35.68	0.02	-9000		13		17		32		-1		-50												
140516	38.59	38.91	0.36	0.3		61		44		70		-1		-50												
140517	40.4	41.2	0.02	-9000		111		13		44		-1		-50												
140518	44.37	45.02	-0.01	-9000		57		74		220		-1		-50												

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm								
	Detection Limit		0.01	0.01	2		3	2	1	50	5														
	Method	F630	F630	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102	A102
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
140519	45.02	45.75	-0.01	-9000		86		16		31		-1		-50											-5
140520	47.1	47.92	-0.01	-9000		72		13		25		-1		-50											-5
140521	50.98	51.83	-0.01	-9000		64		11		16		-1		-50											-5
140522	54.33	54.6	-0.01	-9000		93		9		11		-1		-50											6
140523	58.86	59.5	0.01	-9000		26		9		28		-1		-50											-5
140524	59.5	60.15	-0.01	-9000		14		7		33		-1		-50											-5
140525	62.65	63.36	-0.01	-9000		46		8		33		-1		-50											-5
140526	68.16	68.9	-0.01	-0.01		23		8		41		-1		-50											-5
140527	69.8	70.5	-0.01	-9000		20		6		46		-1		-50											-5
140528	73.45	74.2	0.05	-9000		47		4		41		-1		-50											-5
140529	76.2	76.95	-0.01	-9000		15		4		39		-1		-50											-5
140530	78.2	78.9	0.04	0.04		76		9		39		-1		-50											-5
140531	81.3	81.75	0.03	-9000		90		11		42		-1		-50											7
140532	82.35	82.7	0.07	-9000		69		8		35		-1		-50											-5
140533	86.6	87.98	0.03	-9000		28		10		35		-1		-50											-5
140534	88.7	89.5	-0.01	-9000		15		6		54		-1		-50											-5
140535	93.9	94.6	0.12	-9000		191		12		35		-1		-50											-5
140536	95.9	96.08	0.04	-9000		51		12		43		-1		-50											7
140537	98.35	98.85	0.72	0.75		112		43		174		-1		95											-5
140538	101.52	102	0.39	0.34		53		25		52		-1		-50											-5
140539	102	103.32	0.55	-9000		55		45		84		-1		-50											7
140540	106.66	107.1	0.24	0.23		134		29		35		-1		110											-5
140541	112.3	112.68	-0.01	-9000		63		21		29		-1		-50											-5

02
03
04
05
06

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	Detection Limit		0.01	0.01	2		3	2	1	50														5	
	Method		F630	F630	A102		A102	A102	A102	A102	A102														A102
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
140588	273	274.45	-0.01	-9000		37		29		84		-1		-50								10			
140589	274.45	275	-0.01	-9000		123		4		51		-1		-50								-5			
140590	275	276	-0.01	-9000		376		6		76		-1		-50								10			
140591	276	277	-0.01	-9000		286		-3		78		-1		-50								5			
140592	277	278	-0.01	-9000		422		-3		82		-1		-50								-5			
140593	278	279	-0.01	-0.01		473		3		58		-1		-50								-5			
140594	279	280	-0.01	-9000		456		7		39		-1		-50								-5			
140595	280	281.4	-0.01	-0.01		115		6		30		-1		-50								14			
140596	281.4	282.04	0.06	-9000		1520		5		37		-1		-50								43			
140597	282.04	283	-0.01	-9000		153		5		32		-1		-50								17			
140598	283	284	-0.01	-9000		91		5		35		-1		-50								5			
140599	284	285	-0.01	-9000		88		-3		44		-1		-50								-5			
140600	285	286	-0.01	-9000		100		-3		37		-1		-50								-5			
140601	286	287	-0.01	-0.01		117		4		38		-1		-50								-5			
140602	287	288	-0.01	-9000		66		6		35		-1		-50								-5			
140603	288	289	-0.01	-9000		121		8		30		-1		-50								-5			
140604	289	290	-0.01	-9000		122		-3		29		-1		-50								-5			
140605	290	291	-0.01	-9000		124		-3		34		-1		-50								-5			
140606	291	292	-0.01	-9000		77		-3		30		-1		-50								-5			
140607	292	293	-0.01	-9000		127		5		27		-1		-50								-5			
140608	293	293.55	-0.01	-9000		186		7		30		-1		-50								-5			
140609	293.55	294	-0.01	-9000		159		11		64		-1		-50								7			
140610	294	295	-0.01	-9000		71		12		47		-1		-50								8			



Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm											ppm				
	Detection Limit		0.01	0.01	2		3	2	1	50	5											5				
	Method	F630	F630	A102		A102	A102	A102	A102	A102	A102											A102				
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	
140634	318	319	-0.01	-9000			221		-3	28		-1		-50												-5
140635	319	320	-0.01	-9000			161		24	25		-1		-50												-5
140636	320	321	-0.01	-9000			143		6	38		-1		-50												-5
140637	321	322	-0.01	-9000			310		7	30		-1		-50												-5
140638	322	323	-0.01	-0.01			269		7	35		-1		-50												-5
140639	323	324	-0.01	-9000			431		-3	30		-1		-50												-5
140640	324	325	-0.01	-9000			209		-3	28		-1		-50												-5
140641	325	326	-0.01	-9000			97		-3	28		-1		-50												-5
140642	326	327	-0.01	-9000			99		4	26		-1		-50												-5
140643	327	328	-0.01	-0.01			320		3	23		-1		-50												-5
140644	328	329	-0.01	-9000			98		-3	31		-1		-50												-5
140645	329	330	-0.01	-9000			139		-3	29		-1		-50												-5
140646	330	331	-0.01	-9000			195		3	91		-1		-50												-5
140647	331	332	-0.01	-9000			155		4	49		-1		-50												-5
140648	332	333	-0.01	-9000			116		6	37		-1		-50												-5
140649	333	334	-0.01	-9000			159		-3	45		-1		-50												6
140650	334	335	-0.01	-9000			265		-3	44		-1		-50												-5
140651	335	336	-0.01	-9000			268		-3	45		-1		-50												7
140652	336	337	-0.01	-9000			163		-3	40		-1		-50												6
140653	337	338	-0.01	-9000			140		-3	41		-1		-50												6
140654	338	339	-0.01	-9000			184		4	43		-1		-50												6
140655	339	339.89	-0.01	-9000			132		-3	40		-1		-50												9
140656	339.89	340.08	0.04	0.03			1345		10	86		-1		-50												12

011000

639179

CHECK ANALYSES – Au, AMDEL

Project: Cygnet Prospect: Mt Mary Mine Exploration Licence: EL29/97 Hole Number: CM-2

Sample Number	From (m)	To (m)	Units	ppm	ppm	ppm
			Detection Limit	0.01	0.01	0.01
			Method	FA1	FA1	F630
			Au	Au(Rpt)	Au (Analabs)	
140576	245.03	215.84	<0.01	0.01	-0.01	
140577	245.84	246.12	0.01	-	-0.01	
140578	246.12	247.15	0.01	-	-0.01	
140579	253.0	253.96	0.01	-	-0.01	
140580	253.96	254.09	0.04	-	0.04	
140584	266.0	267.0	<0.01	-	-0.01	
140585	237.0	268.0	<0.01	-	-0.01	
140586	268.0	268.96	<0.01	-	-0.01	
140591	276.0	277.0	0.01	-	-0.01	
140592	277.0	278.0	0.01	0.01	-0.01	
140593	278.0	279.0	0.03	-	-0.01	
140594	279.0	280.0	0.01	-	-0.01	
140595	280.0	281.4	0.01	-	-0.01	
140596	281.4	282.04	0.06	-	0.06	
140638	322.0	323.0	<0.01	-	-0.01	
140639	323.0	324.0	<0.01	-	-0.01	
140640	324.0	325.0	<0.01	-	-0.01	
140641	325.0	326.0	0.03	-	-0.01	
140656	339.89	340.08	0.02	-	0.04	

680174

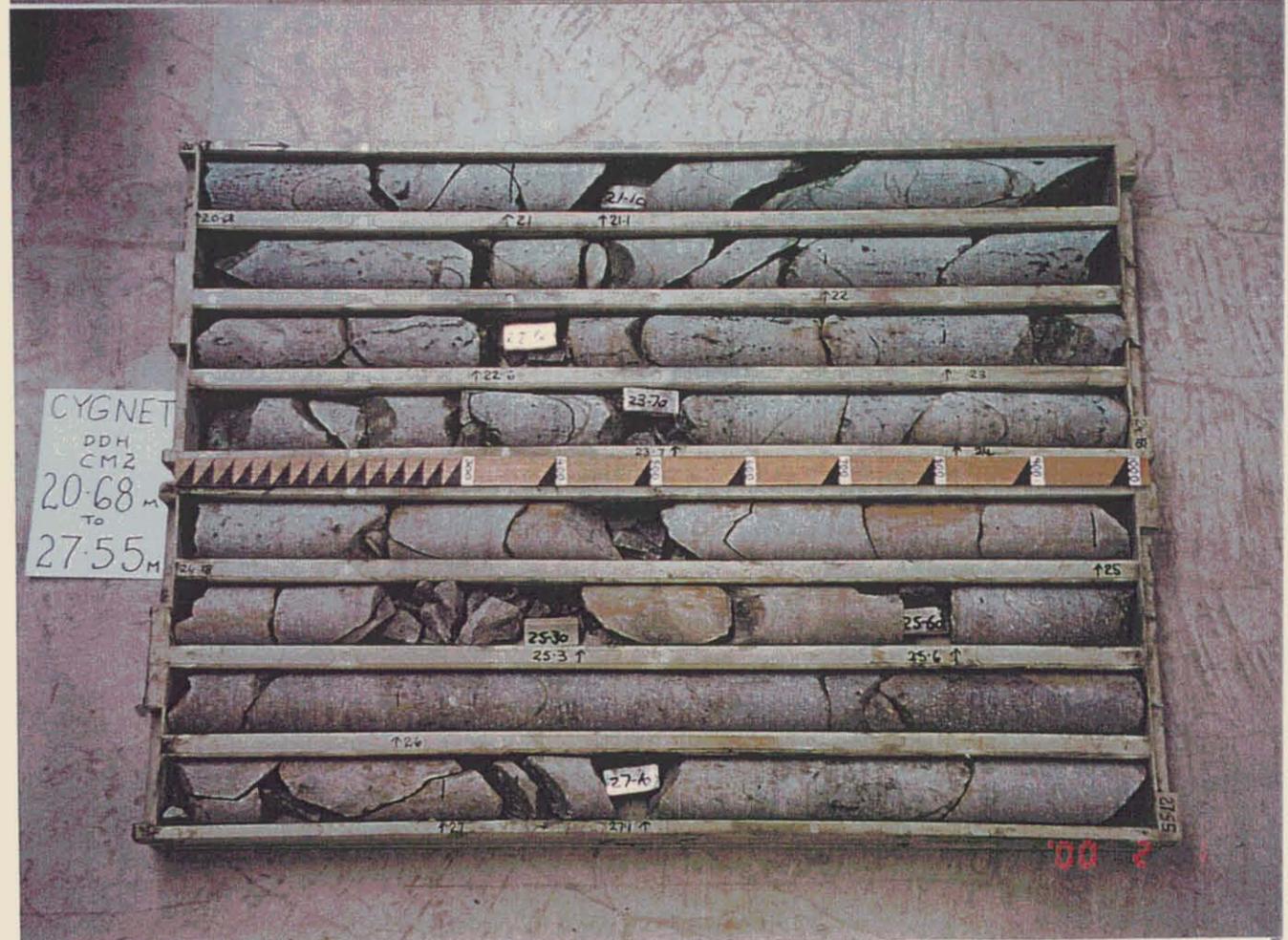
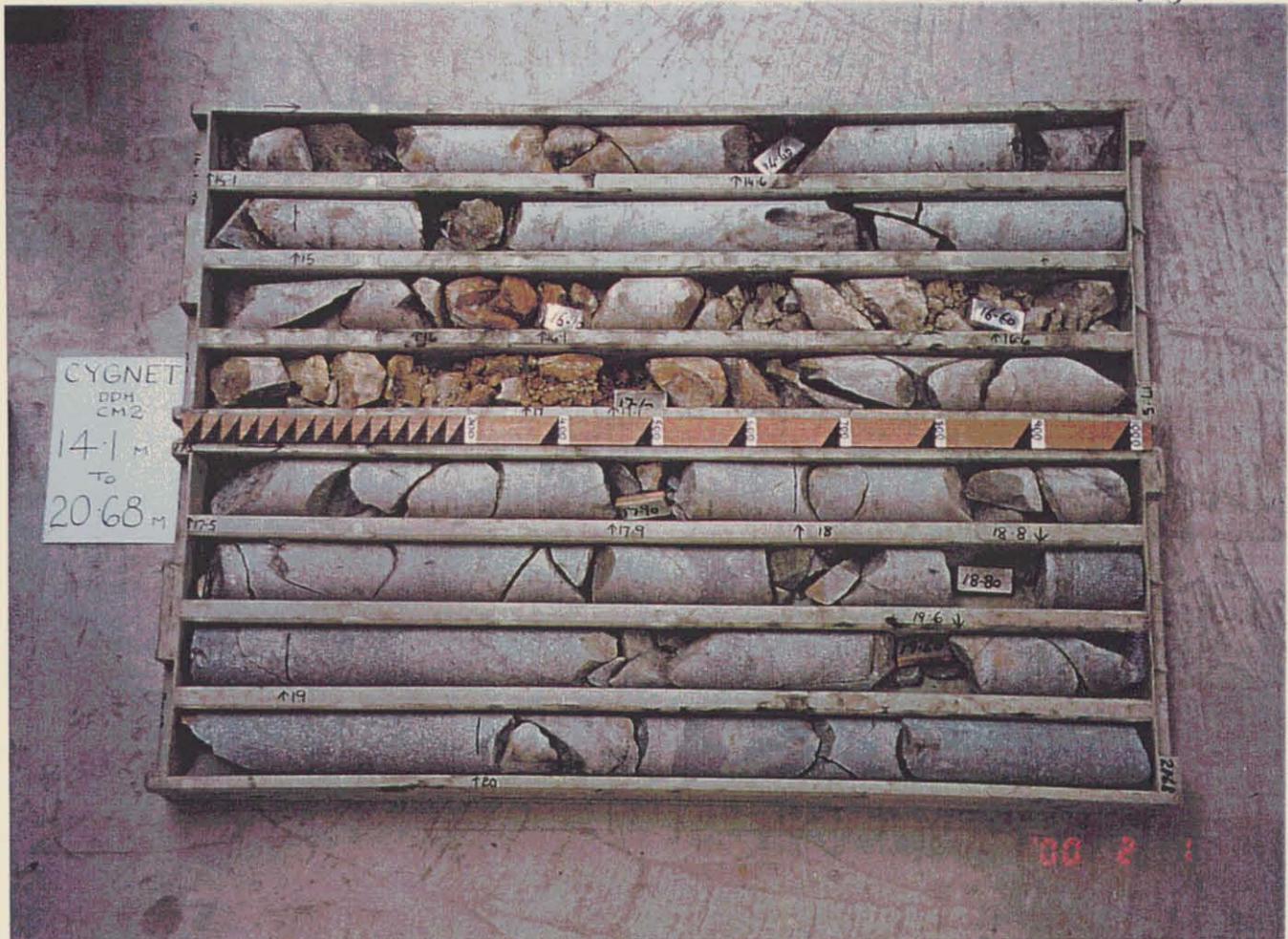
Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

PHOTOGRAPHIC RECORD OF CM-2

639176



639177

CYGNET
DDH
CM2
27.55 M
TO
33.3 M



00 2 3

CYGNET
DDH
CM2
33.3 M
TO
39.45 M



00 2 3

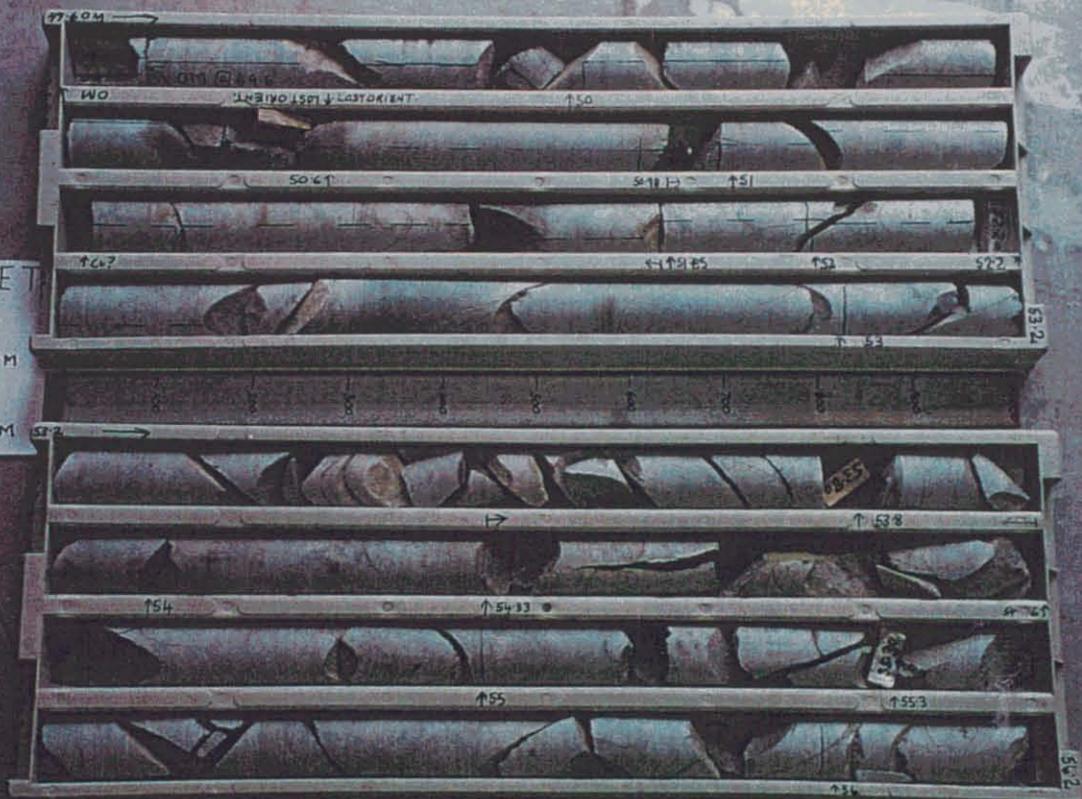
639178

CYGNET
DDH
CMZ
39.45 M
TO
46.2 M



00 2 3

CYGNET
DDH
CMZ
49.6 M
TO
56.2 M



00 2 4

639179

CYGNET
DDH
CMZ
56.2 m
62.2 m



'00 2 4

CYGNET
DDH
CMZ
62.2 m.
68.9 m.



'00 2 4

CYGNET
DDH
CM2
68.9 M.
TO
75.3 M.



'00 2 4

CYGNET
DDH
CM2
75.3 M.
TO
81.45 M.



'00 2 4

639181

CYGNET
DPH
CM2
81.45 M
TO
87.9 M



'00 2 4

CYGNET
DPH
CM2
87.9 M
TO
95.5 M



'00 2 4

CYGNET
DDH
CM2
87.9 M
TO
95.5 M.



00 2 4

CYGNET
DDH
CM2
95.5 M
TO
104.47 M



00 2 4

CYGNET
DDH
CM2
104.47 m
To
113.1 m



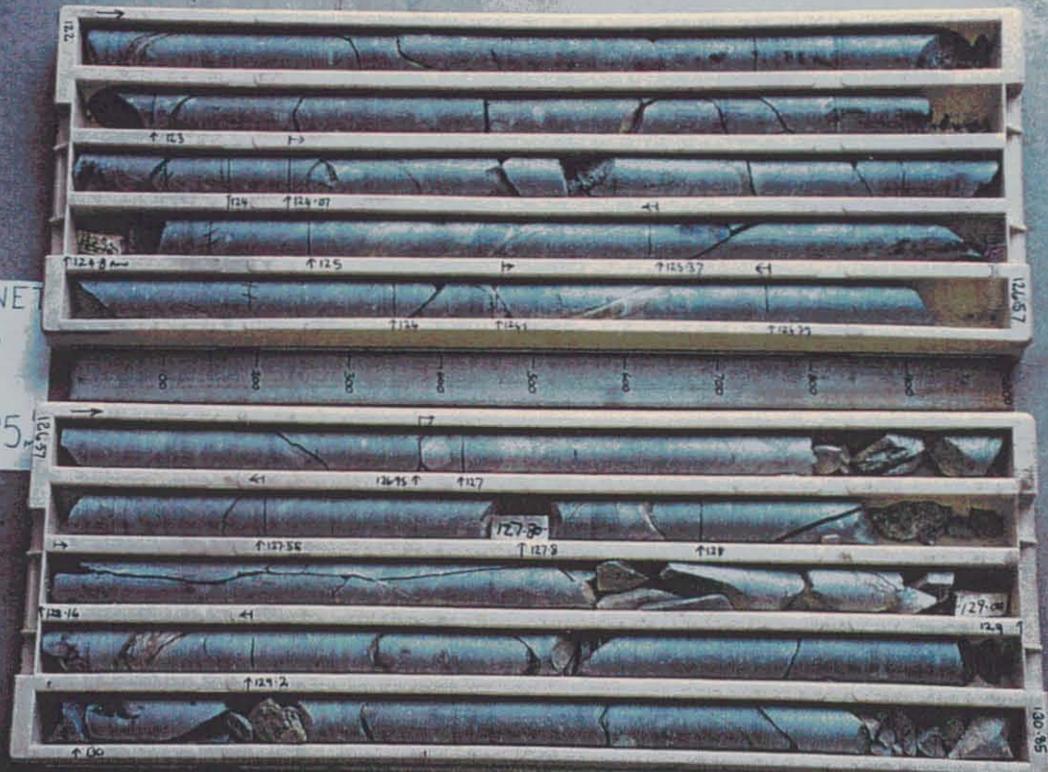
00 2 7

CYGNET
DDH
CM2
113.1 m
To
122 m



00 2 7

CYGNET
DDH
CM2
122 M
TO
130-85



'00 2 9

CYGNET
DDH
CM2
130-85 M
TO
139-37 M



'00 2 9

CYGNET
DDH
CM2
139.37_M
TO
147.83_M



'00 2 9

CYGNET
DDH
CM2
147.83_M
TO
156.67_M



'00 2 10

CYGNET
DDH
CM2
174.34 M
TO
182.55 M



CYGNET
DDH
CM2
182.55 M
TO
190.65 M



CYGNET
DDH
CM2
190.65 M
To
198.58 M



CYGNET
DDH
CM2
198.58 M
To
207.32 M



00 2 11

00 2 11

CYGNET
DDH
CM2
20732
TO
215.54



00 2 14

CYGNET
DDH
CM2
215.54
TO
224.32



00 2 14

639130

CYGNET
DDH
CM2
224-32
TO
233-1M



00 2 14

CYGNET
DDH
CM2
233-1M
TO
242-1M



00 2 15

CYGNET
DDH
CM2
242.2_m
TO
251.2_m



'00 2 15

CYGNET
DDH
CM2
251.2_m
TO
259.95_m



'00 2 15

CYGNET
DDH
CM2
259.95m
TO
269m



'00 2 16

CYGNET
DDH
CM2
269m
TO
277.65m



'00 2 16

639193

CYGNET
DDH
CM2
27765
TO
28655



'00 2 16

CYGNET
DDH
CM2
286.55
TO
295.67



'00 2 17

633194

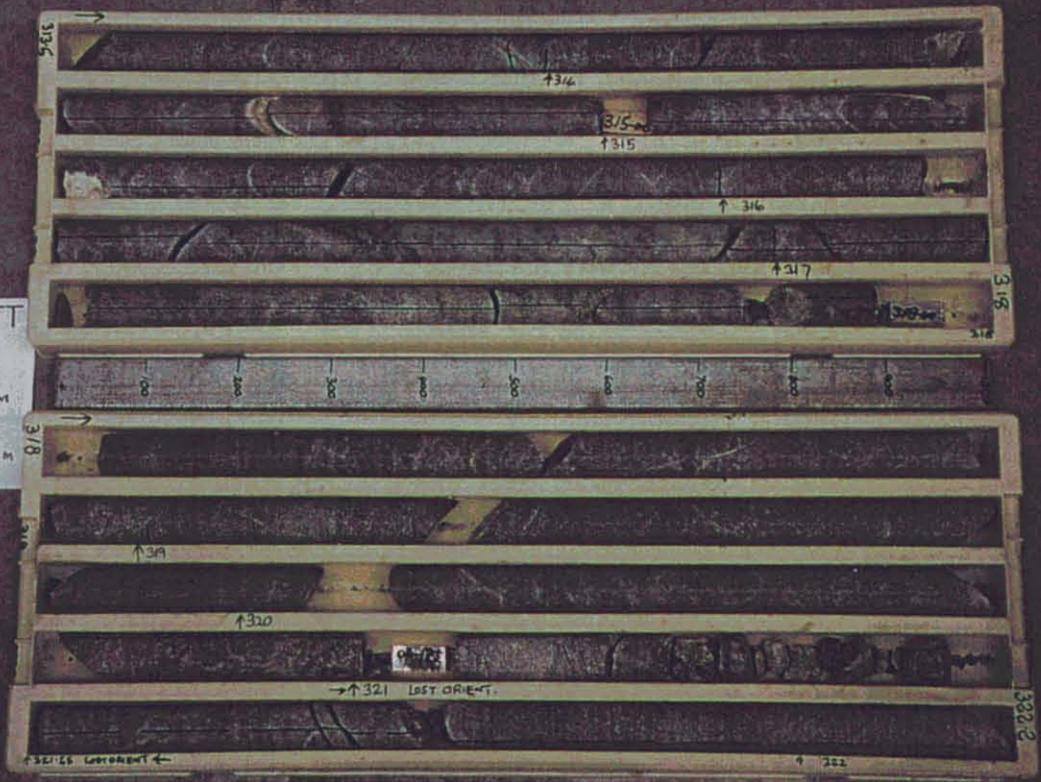
CYGNET
DDH
CM2
295.67
To
304.59



CYGNET
DDH
CM2
304.59
To
313.5



CYGNET
DDH
CM2
313.5 M
To
322.2 M



00 2 2 1

CYGNET
DDH
CM2
322.2 M
To
331.45 M



00 2 2 1

639196

CYGNET
DDH
CM2
331-45_M
TO
340-38



'00 2 22

CYGNET
DDH
CM2
340-38_M
TO
349-4



'00 2 22

633197

CYGNET
DDH
CM 2
349.4 M
To
357.8 M



00 2 22

CYGNET
DDH
CM 2
357.8 M
To
368 M



00 2 23

CYGNET
DDH
CM 2
368 m
TO
377-05



00 2 23

CYGNET
DDH
CM 2
377-05 m
TO
385-95



00 2 23

Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

APPENDIX 5

LOGS FOR DIAMOND DRILL HOLE CM-3

HOLE DETAILS
BORE HOLE SURVEYS
CORE ORIENTATION
GEOLOGICAL LOG & MAGNETIC SUSCEPTIBILITY
ANALYTICAL DATA
PHOTOGRAPHIC RECORD

Laboratory Methods – Analabs

Dry, jawcrush, pulverize (S033); Au by 30gm fire assay, AAS finish (F630); three acid digest (G102) with Cu Pb Zn As Ag Mn Mo by AAS (A102)

Magnetic Susceptibility

Instrument: Exploranium KT-5. Average of measurements at top, middle and bottom of 1m intervals. Corrected for core size.

DRILL LOG COVER SHEET

Project: Cygnet	Exploration Licence: EL29/97
Prospect: Mt Mary Mine	Hole Number: CM-3
Co-ordinates AMG: E 505240 N 5220510	Logged by: Nic Turner

RL Collar: 117mASL

Azimuth: 152deg AMG

Inclination: -50deg

Depth: 317.2m

Hole Size:

	FROM	TO
HQ	0	77.6m
NQ	77.6m	317.2m

Commenced: 18 February 2000

Completed: 14 March 2000

Drillers: Oil Mineral Exploration Drilling

Drill Type: Modified Mindrill 66

Comments: HW casing to 15m. Much fracturing and broken ground. Water return maintained to about 140m by hysealing. Particularly difficult drilling in very broken material 175-260m, with heavy bit wear (inside guage). Overall average drilling rate of 18.7m per day, day shift.

Note: Collar co-ordinates and RL determined from plotted position of collar on orthophoto map 1:5000, Cygnet 52. Lands Dept., Hobart, 1983.

BORE HOLE SURVEYS

Project: Cygnet **Prospect:** Mt Mary Mine **EL:** EL29/9 **Hole Number:** CM-3

Depth	Inclination (deg)	Azimuth (deg AMG)	Equipment Used
00	50	152	Ausmine Single Shot Camera
50	50	156	Ausmine Single Shot Camera
100	50	158	Ausmine Single Shot Camera
150	48.5	161	Ausmine Single Shot Camera
200	46	165	Ausmine Single Shot Camera
250	44.4	162	Ausmine Single Shot Camera
303	41.9	162	Ausmine Single Shot Camera

Drilling Core Orientation Report

Project: Cygnet **Prospect:** Mt Mary Mine **EL:** EL29/97 **Hole Number:** CM-3

Method: Spear and Crayon

OM Depth (m)	Interval (m) From	Interval (m) To
55.5	052.5	057.45
99.0	090.0	101.7
147.0	145.5	147.0
186.4	186.4	186.4
189.0	188.0	189
249.0	245.6	249.25
299.8	293.6	304.2

Presentation in core trays:

1. A drillers' block (marked OM) indicates the position of the orientation mark in the core tray. The orientation marks are in red crayon.
2. For oriented intervals in uncut core, the bottom line is marked on the core.
3. For oriented intervals in cut core, the top line corresponds to the right hand edge of the cut surface when viewed down hole.

GEOLOGICAL LOG

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-3

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
1	0	2.5	50	NO SAMPLE	0-81: Weathering. 0-3.4: Tillite substantially decomposed to clay, tree roots present. 3.4-9.5: Tillite partially decomposed to clay, core very broken with light limonitic coatings on fractures. 9.5-15.5: Tillite becomes less weathered, core very broken with light limonitic coatings on fractures. 15.5-43: Core moderately broken, scattered intervals of limonitic fractures in tillite and porphyry. Eg 16.6-17.5, 19.6-20, 21.3-21.5, 27-27.4, 38.8-42. 43-81: Fairly coherent core of mostly unweathered tillite and porphyry with scattered limonitic fractures.
2	2.5	3.4	50	.21	
3	3.4	4.0	50	.27	3.4-29.4: Tillite = pebbly, sandy, silty mudstone. Dark grey matrix containing angular to rounded clasts up to 70mm across. Clasts consist mostly of sedimentary rocks, notably fine grained sandstone (commonly quartzose), vein quartz, fine grained felsic porphyry, black siltstone and uncommon granitoid. There are uncommon recrystallised clasts consisting of epidote, sulphide, etc. with narrow, pale reaction halos. Less than about 1% disseminated sulphide overall.
4	4.0	5.2	60	NO SAMPLE	
5	5.2	6.5	80	.18	
6	6.5	7.1	50	.2	
7	7.1	8.9	50	.2	
8	8.9	9.5	70	.23	
9	9.5	10.10	67	.2	
10	10.10	11.9	91	.17	
11	11.9	12.4	50	.25	
12	12.4	13.5	60	.19	
13	13.5	14.0	80	.26	
14	14.0	15.3	95	.24	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-3

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
15	15.3	16.5	99	.24	
16	16.5	17.8	92	.2	
17	17.8	19.4	99	.26	
18				.26	
19	19.4	21.0	100	.25	
20				.26	
21	21.0	22.5	95	.26	
22	22.5	24.0	98	.26	
23				.37	
24	24.0	25.4	100	.96	
25	25.4	27.0	100	.23	
26				.22	
27	27.0	28.5	99	.5	
28	28.5	30.0	106	.49	
29				.92	29.4-39.2: Large feldspar (sparse, to 25mm), small feldspar (abundant, to 8mm), black hornblende (subordinate, to 2mm) porphyry with very fine grained, pale grey groundmass. Common disseminated epidote alteration. Disseminated sulphide 1-3% overall, partly replacing black hornblende. Scattered planar fracture veinlets with epidote, chlorite and sulphide eg 30.45: weakly magnetic, 30mm thick vein of epidote, black silicate, sulphide which cuts pale alteration (silicification). Patchy, fracture-related pale alteration scattered through porphyry eg 30.2-31.
30	30.0	31.5	100	.3	

Project: Cygnet

Exploration Licence: EL29/97

Prospect: Mt Mary Mine

Hole Number: CM-3

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
31	31.5	33.0	96	10.12	
32				1.37	
33	33.0	34.5	100	2.78	
34	34.5	36.0	106	27.4	
35				8.1	
36	36.0	39.0	100	8.7	
37				13.0	
38				13.2	
39	39.0	40.5	100	.3	39.2-77.6: Tillite similar 3.4-29.4. Unusually large, 150mm granitoid clast at 76.8. Common planar fractures but veining not pronounced - mostly very thin (<1mm) pale veinlets of quartz and ?tremolite. Some more prominent veins. eg 57.5: 25mm thick, non magnetic, consists of pyrite (py), black mineral, chlorite and epidote with a thin margin of pale alteration; eg 62m 30mm thick, similar non magnetic vein with pale altered margins; eg 63m similar vein with irregular, pale silicified margins.
40	40.5	42.0	100	.6	
41				.3	
42	42.0	43.5	100	.3	
43	43.5	45.0	100	.3	
44				.37	
45	45.0	46.5	99	.4	
46	46.5	48.0	100	.3	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
47				.52	
48	48.0	49.5	100	.3	
49	49.5	51.0	100	.3	
50				.35	
51	51.0	52.5	100	.36	
52	52.5	54.0	100	.3	
53				.3	
54	54.0	55.5	99	.36	
55	55.5	57.0	100	.39	
56				.53	
57	57.0	58.5	94	.66	
58	58.5	60.0	100	.43	
59				.35	
60	60.0	61.5	100	.75	
61	61.5	63.0	100	.4	
62				.97	
63	63.0	64.5	100	.7	

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Prospect: Mt Mary Mine

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
64	64.5	66.0	100	.35	
65				.49	
66	66.0	67.5	100	.6	
67	67.5	69.0	99	.43	
68				.42	
69	69.0	70.5	100	.3	
70	70.5	72.0	100	.3	
71				.28	
72	72.0	73.5	100	.25	
73	73.5	75.0	100	.32	
74				.3	
75	75.0	76.5	100	.35	
76	76.5	77.6	98	.39	
77	77.6	79.6	99	.37	77.6: End of HQ
78				.32	77.6-81.15: Tillite. Similar above. No notable veinlets.
79	79.6	81.0	93	.5	
80				.3	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
81	81.0	84.0	97	.5	81.15-81.55: Porphyry with very fine grained, medium grey groundmass. No feldspar phenocrysts recognised, only poorly preserved black hornblende. Probably altered lamprophyre.
82				.5	81.55-85.2: Porphyry with very fine grained, medium grey groundmass. Uncommonly preserved feldspar phenocrysts, common black hornblende. About 1% disseminated sulphide, mostly replacing black hornblende. Scattered epidote- sulphide veinlets with associated pale alteration. Probably altered lamprophyre.
83				1.15	
84	84.0	87.0	100	.7	
85				.5	85.2-95.75: Tillite. Similar above but with more recrystallised clasts with pale reaction halos. Scattered thin fracture veinlets of chlorite, epidote, black mineral and minor sulphide with pale marginal alteration eg 88.3-88.4, 89.3, 93.85-94.2.
86				.6	
87	87.0	90.0	100	.34	
88				.57	
89				.6	
90	90.0	93.0	103	.5	
91				.6	
92				.9	
93	93.0	96.0	97	.6	
94				1.00	
95				15.7	95.75-98.15: Large feldspar (common, to 27mm, flow aligned), black hornblende (common, to 4mm), orange garnet porphyry with fine grained, medium grey groundmass. Bottom 1m contains euhedral orange garnet to 5mm, which is largely altered to epidote. Minor disseminated sulphide and sparse sulphide veinlets.
96	96.0	99.0	100	31.4	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
97				21.2	
98				3.3	98.15-121.4: Tillite. Recrystallised clasts with pale reaction halos are fairly common. Scattered thin fracture veinlets (several sets) of chlorite, epidote and minor sulphide with associated pale alteration of matrix eg 98.15-99.0, 102.34-104.2, 106.7-108, more intense developments at 115.1-115.95 and 118-118.6. Blue-green copper salts on fracture at 116.85.
99	99.0	102.0	100		
100				.7	
101				1.6	
102	102.0	103.6	50	1.1	
103	103.6	104.4	80	.27	
104	104.4	106.7	98	.3	
105				.7	
106	106.7	108.0	85	.4	
107				1.0	
108	108.0	109.9	103	.75	
109	109.9	111.0	91	1.0	
110				1.2	
111	111.0	112.0	100	.45	
112	112.0	113.4	1063	.9	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
113	113.4	114.6	100	.75	
114	114.6	116.9	100	.8	
115				1.00	
116	116.9	118.6	100	.6	
117				.6	
118	118.6	120.0	100	15.25	
119				1.6	
120	120.0	122.1	100	1.0	
121				9.75	121.4-127.5: Large feldspar (abundant, to 20mm, flow aligned), black hornblende (subordinate, to 5mm) porphyry with fine grained, medium grey groundmass. Minor disseminated sulphide replacing black hornblende. Minor fracture-related pale alteration eg 123.45-124.26 (does not affect hornblende). Very thin sulphide veinlets in fractures. About 1% sulphide overall.
122	122.1	123.1	100	14.6	
123	123.1	126.0	98	7.6	
124				8.9	
125				9.0	
126	126.0	127.0	110	11.7	
127	127.0	128.3	99	5.9	127.5-138.3: Tillite. Clasts of quartzite, grey sandstone, vein quartz, quartz-feldspar porphyry, minor granitoid and scattered, recrystallised clasts with mafic compositions and pale reaction halos. Sparse epidote-quartz-pyrite fracture veinlets eg 136, 137.35 also epidote-chlorite-pyrite veinlets with associated pale alteration of matrix at 128.76-129.8.
128	128.3	130.4	90	.75	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
129				.2	
130	130.4	131.9	93	.37	
131	131.9	133.1	108	.7	
132				.65	
133	133.1	134.1	105	.4	
134	134.1	135.3	96	.37	
135	135.3	137.0	94	.39	
136				.32	
137	137.0	138.3	110	1.8	
138	138.3	139.4	100	11.1	138.3-139: Large feldspar (sparse, to 15mm), small feldspar (abundant, to 4mm), black hornblende porphyry with medium grey groundmass. Substantial disseminated epidote alteration, minor disseminated sulphide. Scattered, thin epidote-sulphide veinlets. Minor ?Cu salts on fractures.
139	139.4	140.3	95	2.2	139-144.18: Tillite. Similar to 127.5-138.3. Scattered, very thin py and py-epidote veinlets with pale altered margins. More intense alteration 143.46-144.18 with stronger planar veinlets-magnetic and contain epidote, black mineral, sulphide.
140	140.3	141.8	98	.5	
141	141.8	142.5	71	.4	
142	142.5	144.0	106	.6	
143				.5	
144	144.0	147.0	92	16.1	144.18-148.1: Large feldspar (common, to 30mm, flow aligned), small feldspar (common, to 8mm), black hornblende, medium green ?pyroxene porphyry with pale to medium grey groundmass. Disseminated epidote alteration. Substantial fracture-related alteration at 144.18-146 with pale pinkish groundmass and several sets of pyrrhotite (po) and epidote-po veinlets, also disseminated sulphide. Total sulphide 5-10%.

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
145				13.9	
146				20.2	
147	147.0	147.4	90	16.6	
148	147.4	149.7	102	4.3	148.1-153.85: Tillite with scattered strongly recrystallised clasts. Fracture-related, pale alteration of parts of matrix and scattered sulphide fracture veinlets.
149	149.7	150.9	99	.7	
150	150.9	151.8	67	.3	
151	151.8	153.9	98	.27	
152				.6	
153	153.9	155.4	98	.3	153.85-155.3: Small feldspar (abundant, to 8mm), black hornblende porphyry with very fine grained, pale grey groundmass. Substantial sulphide replacement of black hornblende and scattered sulphide veinlets giving overall sulphide of 5-10%. Minor disseminated epidote alteration.
154				6.8	
155	155.4	156.6	92	12.7	155.3-157.2: Large feldspar (common, to 30mm, flow aligned), black hornblende (common, to 4mm), minor tiny pale prisms of ?pyroxene porphyry with fine grained, medium grey groundmass. Minor disseminated sulphide and very thin sulphide veinlets give about 1% sulphide overall.
156	156.6	157.8	102	15.5	
157	157.8	158.9	99	4.4	157.2-161.55: Tillite. Minor pale alteration of matrix at 157.2-157.6. Little veining.
158	158.9	162.0	98	.3	
159				.3	
160				.8	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
161				7.6	161.55-167.3: Small feldspar (abundant, to 10mm), black hornblende porphyry with fine grained, medium grey groundmass. Patchy disseminated epidote alteration and scattered epidote veinlets. Combined disseminated sulphide and sulphide in veinlets is up to about 10% in places. Minor fracture-related, pale alteration of groundmass. Older than the underlying porphyry.
162	162.0	163.0	97	5.4	
163	163.0	164.3	99	.6	
164	164.3	165.6	95	7.2	
165	165.6	166.5	105	9.4	
166	166.5	168.0	100	12.4	
167				16.4	167.3-168.25: Large feldspar (sparse, to 20mm, flow aligned), black hornblende porphyry with very fine grained, medium grey groundmass. About 5% sulphide in scattered thin veinlets and disseminated as replacement of black hornblende. Younger than the underlying porphyry.
168	168.0	169.0	99	23.6	168.25-178.15: Large and small feldspar (abundant, seriate size distribution to 30mm), black hornblende porphyry with common tiny pale prisms of ?pyroxene and a fine grained, medium grey groundmass. Minor disseminated epidote alteration, common disseminated sulphide. Scattered thin sulphide and sulphide-epidote veinlets. About 3% sulphide overall. Intrusive contact at 176.76 with similar, but older porphyry below. Note: core is mostly very broken 168.5-178.15, 189-200.5, 206-225.7.
169	169.0	170.2	99	17.8	
170	170.2	172.2	98	26.9	
171				18.6	
172	172.2	173.2	98	.8	
173	173.2	174.2	98	20.15	
174	174.2	175.4	98	17.9	
175	175.4	177.0	98	25.7	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
176				18.2	
177	177.0	178.1	99	26.7	
178	178.1	179.2	99	1.3	178.15-179.65: Dark grey mudstone with weak pale alteration to 178.7. Scattered, very thin sulphide and sulphide chlorite veinlets.
179	179.2	180.7	99	2.8	179.65-181.0: Unusual porphyry with black hornblende (abundant, to 2mm) and fairly common, anhedral patches of white feldspar (to 15mm) containing black hornblende or exhibiting vuggy cores. Fine grained, medium grey groundmass with about 3% disseminated sulphide.
180	180.7	181.9	96	28.0	
181	181.9	182.8	84	.45	181.0-202.5: Dark grey mudstone, sparsely pebbly 186.5-188.25. Thin (50mm) band of pebbly conglomerate at 188.25, at 50deg to core axis. Sparsely pebbly mudstone with sandy intervals 188.25-190, 200.1-202.5. Spotted hornfels texture in a few places eg 185.9. Common fractures in several sets, some containing very thin sulphide and silicate veinlets.
182	182.8	183.8	110	.5	
183	183.8	185.2	86	.5	
184				.5	
185	185.2	186.8	92	.36	
186	186.8	187.9	91	.3	
187	187.9	189.0	109	.46	
188				.3	
189	189.0	190.0	99	.3	
190	190.0	190.8	+/-90	1.1	
191	190.8	191.3	50	.3	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
192	191.3	192.1	95	.3	
193	192.1	192.5	30	.3	
194	192.5	193.5	80	.3	
195	193.5	194.1	90	.5	
196	194.1	194.8	60		BROKEN CORE
197	194.8	195.3	70	.35	
198	195.3	196.2	98	.4	
199	196.2	196.8	50	.3	
200	196.8	197.7	55	.3	
201	197.7	198.3	98	.28	
202	198.3	198.9	95	5.9	202.5-204.55: Large feldspar (abundant, to 25mm, flow aligned), black hornblende (minor, to 2mm) porphyry with fine grained, medium grey groundmass. Very little disseminated sulphide. Sparse, thin, sulphide fracture veinlets.
203	198.9	199.5	95	9.4	
204	199.5	200.1	95	15.9	204.55-205.2: Pale altered mudstone in which alteration has produced paler and darker lamination that is probably parallel to bedding and/or fissility at 50deg to core axis. Lamination is cut by thin fracture veinlets (with sulphide) at 35deg to core axis in the opposite sense. Minor sulphide and magnetite.
205	200.1	200.5	50	.95	205.2-216.55: Tillite with clasts of mainly sandstone, scattered mafics-sulphide clasts with halos. Pebbles relatively sparse and small after 212.7. Common fractures-coated with soft, pale greenish-cream mineral, also sulphide, also ?chlorite. Scattered very thin sulphide veinlets and minor disseminated sulphide. Vughy, crystal lined fractures 212.7-213.1. Polished (?sheared) surfaces at 210.8.
206	200.5	201.3	98	.5	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
207	201.3	202.4	99	1.3	
208	202.4	203.4	90		BROKEN CORE
209	203.4	206.45	99	2.2	
210	206.45	207.5	80	.3	
211	207.5	208.0	50	.37	
212	208.0	209.3	99	.3	
213	209.3	210.7	30	.24	
214	210.7	211.3	60	.29	
215	211.3	212.7	98	.27	
216	212.7	214.0	95	20.7	216.55-216.8: Unusual porphyry with seriate, anhedral feldspar (to 30mm) in medium grey groundmass. Minor disseminated epidote alteration. Common disseminated pyrrhotite (po), also po fracture veinlets. Total sulphide about 10%.
217	214.0	215.1	98	4.2	216.8-217.0: Dark grey mudstone with sulphide coated fractures. About 5% sulphide overall.
218	215.1	216.5	98	.7	217.0-217.4: Large feldspar (abundant, to 40mm, flow aligned) black hornblende porphyry with fine grained, medium greenish-grey groundmass. Some 3-5% sulphide-disseminated and in thin fracture veinlets.
219	216.5	217.4	98	.5	
220	217.4	218.5	82	.4	217.4-229.3: Dark grey mudstone with about 1% disseminated sulphide. Patches of relatively pale, brownish alteration containing up to 10-15% disseminated sulphide and cut by very thin, sulphide-bearing fracture veinlets. Widespread fractures thinly coated with blue-green, soft mineral (?copper salt), also by smoky blue mineral. Note: Common intervals of very broken core from 206-258. Drilling was very difficult.
221	218.5	219.0	80	.4	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
222	219.0	220.7	94	.3	
223	220.7	221.1	88	.3	
224	221.1	222.0	89	.4	
225	222.0	222.7	99	.3	
226	222.7	223.3	83	.36	
227	223.3	224.2	91	.4	
228	224.2	225.4	99	.35	
229	225.4	226.5	55	6.4	229.3-230.3: Tillite
230	226.5	227.9	79	.4	230.3-231.6: Dark gray mudstone.
231	227.9	228.8	67	.36	231.6-236.5: Richly pebbly, dark grey sandstone with pebbles of predominantly fine grained sandstone up to 35mm across. Widespread pale alteration of sandy matrix and common alteration of clasts, including epidote-sulphide-mt assemblages. About 1% disseminated sulphide. Scattered chlorite-sulphide fracture veinlets, also fractures containing soft, pale, crystalline mineral and sulphide. There is trace blue-green copper salt on some fractures.
232	228.8	229.2	95	.4	
233	229.2	230.0	94	.8	
234	230.0	230.8	88	1.0	
235	230.8	231.1	99	5.5	
236	231.1	232.1	80	1.4	236.5-240.1: Gradational change to tillite at 236.5. Minor disseminated sulphide. Common altered clasts containing sulphide. Strong po-mt veining 236.66-236.8. Soft, pale green, crystalline mineral coating fracture at 337.10, which is at the upper margin of a cavity which extends to 337.7. This fracture coating also contains minor sulphide and a few patches of deep red, earthy mineral.

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
237	232.1	233.0	45	.36	
238	233.0	234.3	65	.35	
239	234.3	235.0	99	.3	
240	235.0	236.8	100	.9	240.1-241.1: Dark grey mudstone.
241	236.8	238.45	50	2.1	241.1-246.44: Mostly richly pebbly, lithic sandstone with thinly interbedded dark grey mudstone (?varves). A little disseminated sulphide. Common fracturing in several sets eg 241.15m, where there is related pale alteration. Much of the pebbly sandstone displays pale alteration (hard=?silicification) and there is common clast alteration. Bedding at 50deg to core axis (sub-horizontal) at 245.8m.
242	238.45	239.35	64	.77	
243	239.35	239.8	95	.5	
244	239.8	240.2	99	.7	
245	240.2	240.8	40	1.0	
246	240.8	241.9	99	16.97	246.44-250.5: Large feldspar (very sparse, to 15mm), small feldspar (abundant, to 6mm), black hornblende (subordinate, to 3mm) porphyry with medium grey groundmass. Common disseminated epidote alteration and about 3% disseminated sulphide. Scattered fracture veinlets containing soft, pale, crystalline mineral and sulphide eg 249.25-250.5.
247	241.9	243.0	98	27.1	
248	243.0	243.6	99	14.3	
249	243.6	244.7	109	13.5	
250	244.7	246.0	96	5.1	250.5-250.6: Sedimentary, largely decomposed to clay.
251	246.0	249.0	100	2.7	250.6-252.2: Thinly bedded mudstone in which bedding is highlighted by creamy alteration of some intervals, contrasting with dark grey colour of other intervals. Bedding at 60deg to core axis. Scattered thin sulphide veinlets parallel to bedding, and cross-cutting.

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 Logged by: Nic Turner

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
252	249.0	250.6	88	2.3	252.2-257.5: Dark grey tillite with little apparent alteration. Scattered fractures coated with soft, pale mineral.
253	250.6	252.0	86	.4	
254	252.0	252.7	90	.8	
255	252.7	253.5	63	1.5	
256	253.5	253.8	50	.3	
257	253.8	254.2	05	5.6	257.5: Dolerite contact - orientation unknown.
258	254.2	254.5	30	10.96	257.5-272.2: Dolerite. Fine grainsize grades to medium grainsize at about 259. Common fracture veinlets with sulphide (py) at 257.7-258.63; also a 90mm vein of py and pale grey quartz at 258.33-258.63. Common, very thin, green silicate (chlorite, ?actinolite) fracture veinlets elsewhere, in several sets. A little coarse grained alteration adjacent to a few fractures. Probably widespread alteration of pyroxene to green amphibole. About 1% disseminated sulphide overall.
259	254.5	255.0	50	1.7	
260	255.0	255.2	50	4.96	
261	255.2	255.55	43	.36	
262	255.55	255.9	30	3.6	
263	255.9	256.25	30	3.3	
264	256.25	257.1	88	5.2	
265	257.1	257.5	25	1.5	
266	257.5	257.7	75	1.7	
267	257.7	259.1	100	11.9	

Project: Cygnet
 Prospect: Mt Mary Mine
 Logged by: Nic Turner

Exploration Licence: EL29/97
 Hole Number: CM-3

630221

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
268	259.1	261.0	88	19.1	
269	261.0	263.1	100	9.3	
270	263.1	264.1	60	6.9	
271	264.1	265.3	96	10.1	
272	265.3	266.5	100	28.4	272.2-274.1: Garnet (common, to 5mm, orange), black hornblende, small feldspar (sparse) porphyry with very fine grained, olive groundmass. Hornblende largely replaced by sulphide (po). Minor disseminated epidote alteration. Very little fracturing. Sulphide 5-10% overall.
273	266.5	268.7	99	20.9	
274	268.7	270.0	99	8.4	274.1-280.35: Dolerite. Coarse grained alteration 275.8-276.4 and 278.9-280.35, remainder medium grained. Coarse grained alteration consists of relatively large grains of green amphibole in a finer grained, felsic groundmass. Pyroxene appears to be altered to green amphibole throughout. A little disseminated sulphide. Common very thin fracture veinlets of green silicate (actinolite, ?chlorite) in several sets. Scattered prominent fractures containing vein of epidote with minor deep red to orange-red, earthy mineral. These fractures may contain a late, median veinlet (2-3mm) of a soft pale, crystalline mineral (?zeolite, no acid reaction).
275	270.0	272.5	100	6.3	
276	272.5	274.3	99	18.4	
277	274.3	276.0	100	15.4	
278	276.0	278.7	100	23.1	
279	278.7	279.8	98	22.1	
280	279.8	281.6	95	35.0	280.35-280.95: Garnet (common, to 5mm, orange), black hornblende, feldspar (sparse, small) porphyry with pale grey to cream, very fine grained groundmass. Disseminated sulphide 5-10%, mainly replacing black hornblende. Common disseminated epidote alteration, notably of garnet. Scattered very thin fracture veinlets with sulphide and dark grey, metallic mineral.

Project: Cygnet
Prospect: Mt Mary Mine
Logged by: Nic Turner

Exploration Licence: EL29/97
Hole Number: CM-3

630222

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
281	281.6	282.5	95	5.5	280.95-297.65: Dolerite. Continuous coarse grained alteration cut by common green silicate veinlets. Less than 1% disseminated sulphide overall. Very broken core with substantial rock decomposition 282.1-283.35 with scattered polished, slickensided surfaces. Small interval of porphyry around 282.5. Sulphide-?mt veining is common 288.9-289.6, also some rock decomposition in this interval. No limonite in decomposed intervals.
282	282.5	283.0	75	1.3	
283	283.0	283.35	150	11.8	
284	283.35	283.7	100	3.6	
285	283.7	285.0	100	7.3	
286	285.0	287.5	100	11.9	
287	287.5	290.6	97	6.2	
288				19.9	
289				2.8	
290	290.6	293.6	100	4.0	
291				9.6	
292				5.4	
293	293.6	296.7	99	1.4	
294				1.6	
295				1.6	
296	296.7	299.8	99	1.5	

Project: Cygnet
 Prospect: Mt Mary Mine

Exploration Licence: EL29/97
 Hole Number: CM-3

630800

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10 ⁻³ si	Core Description
297				7.8	297.65-301.9: Small feldspar (abundant, to 7mm), black hornblende (minor) porphyry with a medium grey, very fine grained groundmass. Common disseminated epidote alteration. Disseminated sulphide and sulphide in sparse, very thin veinlets comprises about 1% of porphyry. Bottom 100mm contains flow aligned euhedral feldspars.
298				11.0	
299	299.8	302.9	100	13.8	
300				9.75	
301				59.3	301.9-303.3: Dolerite. Continuous coarse grained alteration. Note: The coarse grained alteration in this hole is similar to that in CM-1 ie well crystallised assemblages, without the further phase of alteration that is evident in CM-3.
302	302.9	305.0	97	36.1	
303				33.2	303.3-304.5: Altered large feldspar (common, to 20mm, pinkish), altered black hornblende, ?garnet porphyry with a pale groundmass and a few mafic xenoliths. Disseminated sulphide and sulphide in sparse, thin veinlets comprises 1-3%. Disseminated epidote alteration present.
304				11.3	304.5-305.0: Breccia. Partly decomposed.
305	305.0	305.3	97	14.3	305.0-305.35: Altered pale porphyry with polished, slickensided fractures. Passes into altered dolerite.
306	305.3	306.5	98	4.6	305.35-311.1: Dolerite. Continuous coarse grained alteration. Vein (100mm) of grey quartz with subordinate po at 307.7. Common fractures with limonitic coatings eg 305.3-307.8. Less than 1% disseminated sulphide overall, patchy disseminated mt.
307	306.5	307.8	98	3.7	
308	307.8	308.4	50	4.2	
309	308.4	309.4	99	2.0	
310	309.4	310.9	90	1.4	
311	310.9	312.0	97	35.8	311.1-312.75: Fine grained, black hornblende porphyry with sparse small feldspars and tiny pale prisms of ?pyroxene in a very fine grained, medium grey groundmass. Lamprophyre. Trace ?garnet. Disseminated sulphide is 1-2%.
312	312.0	313.0	98	34.7	312.75-316.2: Dolerite. Similar to above.

Project: Cygnet

Exploration Licence: EL29/97

63929-1

Prospect: Mt Mary Mine

Hole Number: CM-3

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
313	313.0	315.0	98	13.4	
314				2.7	
315	315.0	316.2	60	6.4	316.2-316.55: Small feldspar (sparse, to 7mm), black hornblende (common, to 3mm) porphyry with medium grey groundmass. Less than 1% disseminated sulphide.
316	316.2	317.2	90	15.2	316.55-317.2: Dolerite. Similar to above. Partially decomposed with light limonitic coatings on fractures. Core is very broken after 317.
317	317.2			1.8	END OF HOLE

ASSAYS

Project: Cygnet

Prospect: Mt Mary Mine

Exploration Licence: EL29/97

Hole Number: CM-3

Sample Number	Units		ppm				ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		S	S 1	Mn
	Detection Limit		0.01	0.01	2	3	2	1	50	5															
	Method	F630	F630	A102	A102	A102	A102	A102	A102																
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			
140690	10.7	11.45	-0.01	-0.01			26		23		233		-1		-50								-5		
140691	16.45	17.05	0.04	-9000			29		18		97		-1		-50								-5		
140692	24.5	25.4	-0.01	-9000			25		19		81		-1		-50								-5		
140693	29.4	30.2	0.23	-9000			93		278		1030		-1		-50								-5		
140694	40.65	41.55	0.08	-9000			24		12		62		-1		-50								-5		
140695	46.2	46.83	-0.01	-9000			21		22		123		-1		-50								-5		
140696	54.92	55.34	-0.01	-9000			20		12		71		-1		-50								-5		
140697	57	57.63	0.06	-9000			39		35		198		-1		-50								-5		
140698	60.3	61.3	-0.01	-9000			21		13		59		-1		-50								-5		
140699	61.94	62.15	0.91	0.86			93		24		46		-1		-50								-5		
140700	67.8	68.5	-0.01	-9000			20		31		150		-1		-50								-5		
140701	82.78	84.6	0.13	-9000			48		39		106		-1		-50								-5		
140702	87.95	88.4	0.11	-9000			22		11		81		-1		-50								-5		
140703	92.59	93	-0.01	-9000			20		31		72		-1		-50								-5		
140704	93	94.2	0.11	-9000			27		8		50		-1		-50								-5		
140705	98.15	99	0.06	-9000			23		12		74		-1		-50								-5		
140706	102.34	104.2	0.03	-9000			25		18		278		-1		-50								-5		
140707	106.7	108	-0.01	-9000			46		7		75		-1		-50								-5		
140708	109.2	110.4	-0.01	-9000			132		8		68		-1		-50								-5		

000000

Sample Number	Units		ppm	ppm	ppm		ppm	ppm	ppm		ppm	ppm	ppm		ppm		ppm								ppm			
	Detection Limit		0.01	0.01	2	3	2	1	50	5									5									
	Method	F630	F630	A102	A102	A102	A102	A102	A102								A102											
	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		
140754	236.6	236.8	0.02	-9000			578		-3		27		-1		-50												-5	
140755	236.8	238.45	-0.01	-9000			162		7		34		-1		-50												-5	
140756	241	241.9	-0.01	-9000			48		9		28		-1		-50												-5	
140757	243.6	244	-0.01	-9000			49		16		21		-1		-50												-5	
140758	244	245	-0.01	-9000			20		5		19		-1		-50												8	
140759	245	246	-0.01	-9000			20		7		18		-1		-50												-5	
140760	246	246.44	-0.01	-9000			97		7		18		-1		-50												-5	
140762	249.25	250	-0.01	-0.01			71		3		18		-1		-50												-5	
140763	250	251	0.06	-9000			123		8		24		-1		-50												-5	
140764	251	252.3	0.07	0.07			98		6		29		-1		-50												-5	
140765	254.85	255.9	-0.01	-9000			20		4		50		-1		-50												-5	
140766	257.7	258.63	0.08	0.07			211		13		25		-1		-50												5	
140767	263.1	264.1	-0.01	-9000			86		5		52		-1		-50												-5	
140768	265.3	266.25	-0.01	-0.01			88		-3		42		-1		-50												-5	
140769	269.38	269.45	0.1	0.13			732		3		34		-1		-50												10	
140770	272.2	273	-0.01	-9000			189		5		41		-1		-50												-5	
140771	273	274	-0.01	-9000			173		5		32		-1		-50												-5	
140772	275	275.9	-0.01	-9000			73		4		30		-1		-50												-5	
140773	279.8	280.95	-0.01	-9000			117		3		25		-1		-50												-5	
140774	283.7	284.7	-0.01	-9000			97		-3		33		-1		-50												-5	
140775	288.95	289.6	-0.01	-9000			140		-3		22		-1		-50												9	
140776	292.45	293.38	-0.01	-9000			90		-3		31		-1		-50												-5	
140777	296.7	297.65	-0.01	-9000			58		-3		15		-1		-50												-5	

000202

Sample Number	Units		ppm	ppm	ppm			ppm		ppm		ppm		ppm		ppm		ppm		ppm		S	S 1	Mn
	Detection Limit		0.01	0.01	2	3	2	1	50											5				
	Method	F630	F630	A102	A102	A102	A102	A102	A102									A102						
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		
140778	298.28	293.48	-0.01	-9000		9		4		7		-1		-50									-5	
140779	304.5	305	0.06	-9000		249		9		21		-1		-50									-5	
140780	306	307	-0.01	-9000		320		-3		21		-1		-50									-5	
140781	306	307	-0.01	-0.01		143		8		21		-1		-50									-5	
140782	307	307.7	-0.01	-0.01		397		8		42		-1		-50									-5	
140783	309.6	310.85	-0.01	-9000		135		8		50		-1		-50									-5	
140784	313.77	314.75	-0.01	-9000		85		6		44		-1		-50									-5	

630320

639230

Pacific-Nevada Mining Pty Ltd

EL29/97

Interim Report to 31.3.00

PHOTOGRAPHIC RECORD OF CM-3

639231

CYGNET
DDH
CM3
START
TO
9.25 M



'00 2 28

CYGNET
DDH
CM3
9.25 M
TO
15.3 M



'00 2 28

CYGNET
DDH
CM3
9.25 M
TO
15.3 M



'00 2 28

CYGNET
DDH
CM3
15.3 M
TO
21.9 M



'00 2 28

639233

CYGNET
DDH
CM3
219 M
TO
28.5 M



CYGNET
DDH
CM3
28.5 M
TO
35.7 M



CYGNET
DDH
CM3
35.7M
TO
42.4M



CYGNET
DDH
CM3
42.4M
TO
49.4M



CYGNET
DDH
CM3
49.4 M
TO
56.4 M



00 2 29

CYGNET
DDH
CM3
56.4 M
TO
63.3 M



00 2 29

CYGNET
DDH
CM 3
63.3 M
TO
70.25 M



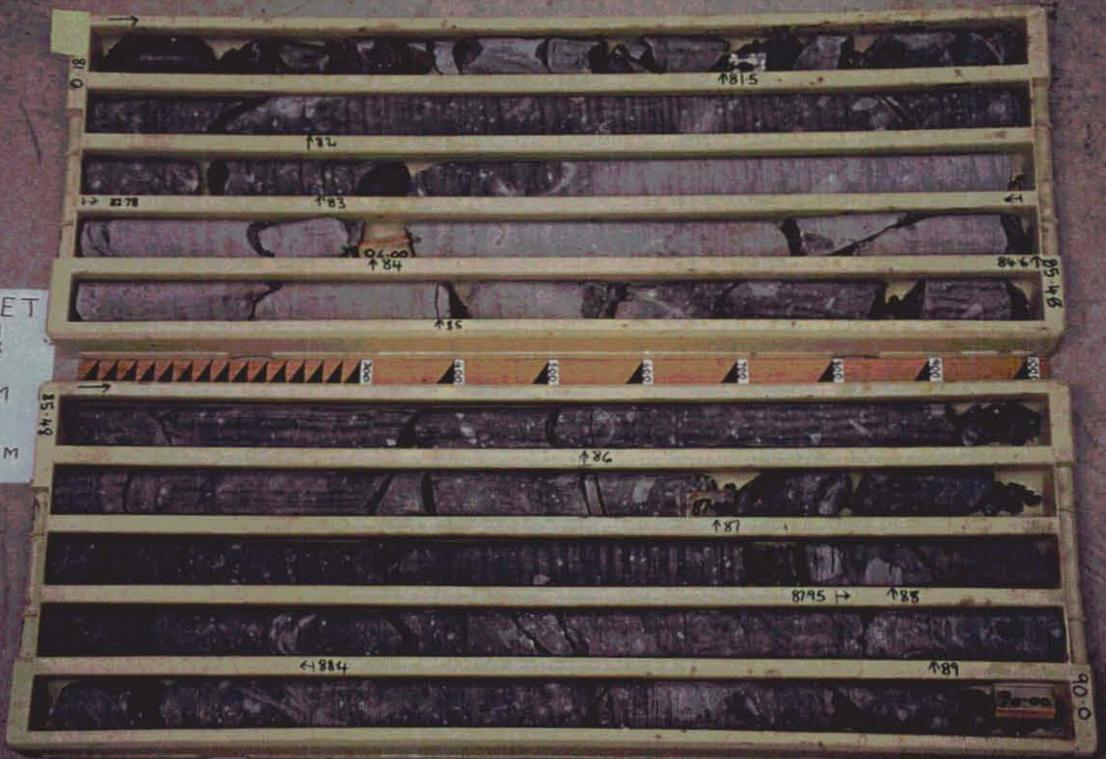
CYGNET
DDH
CM 3
70.25 M
TO
77.3 M

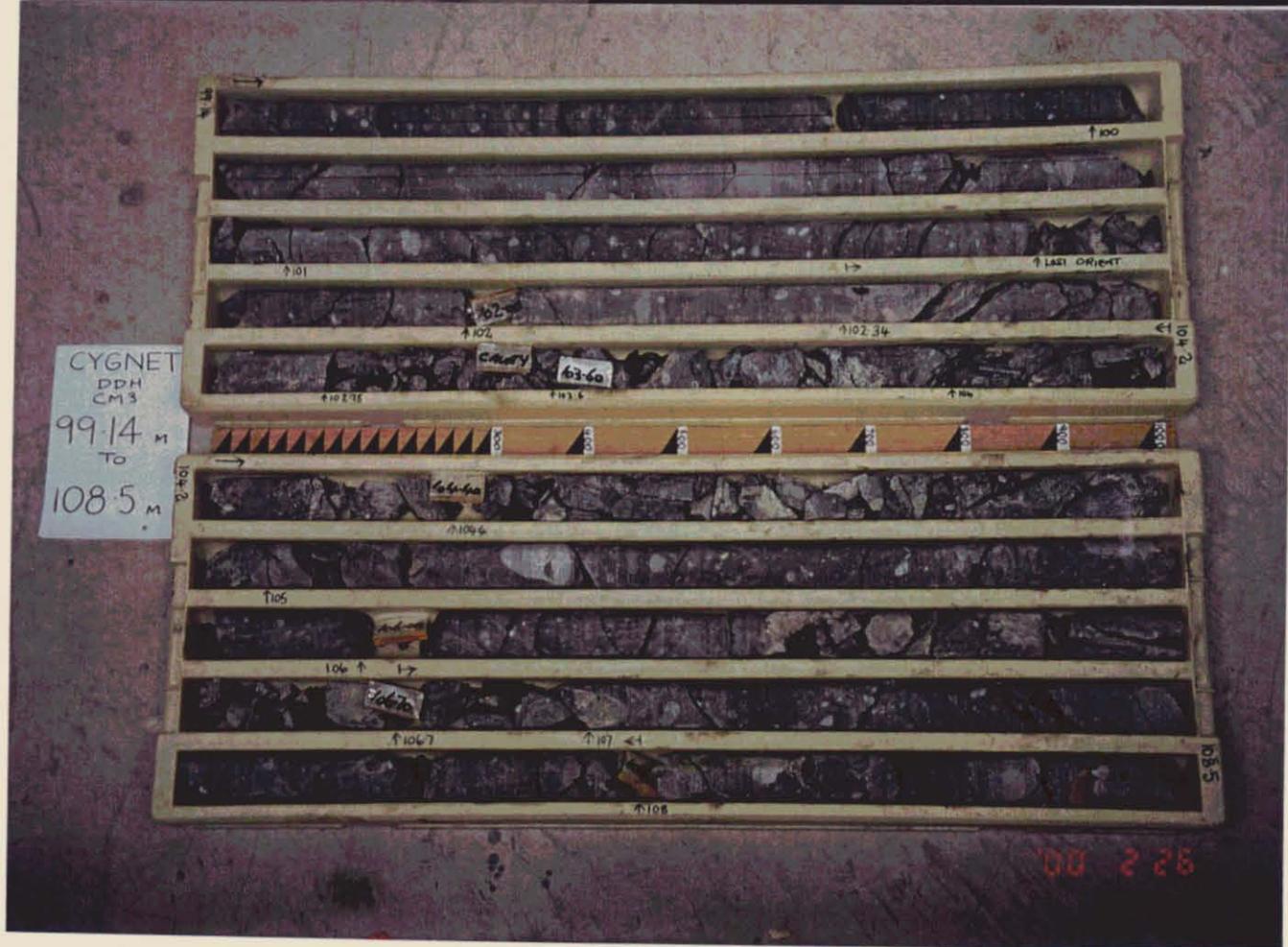
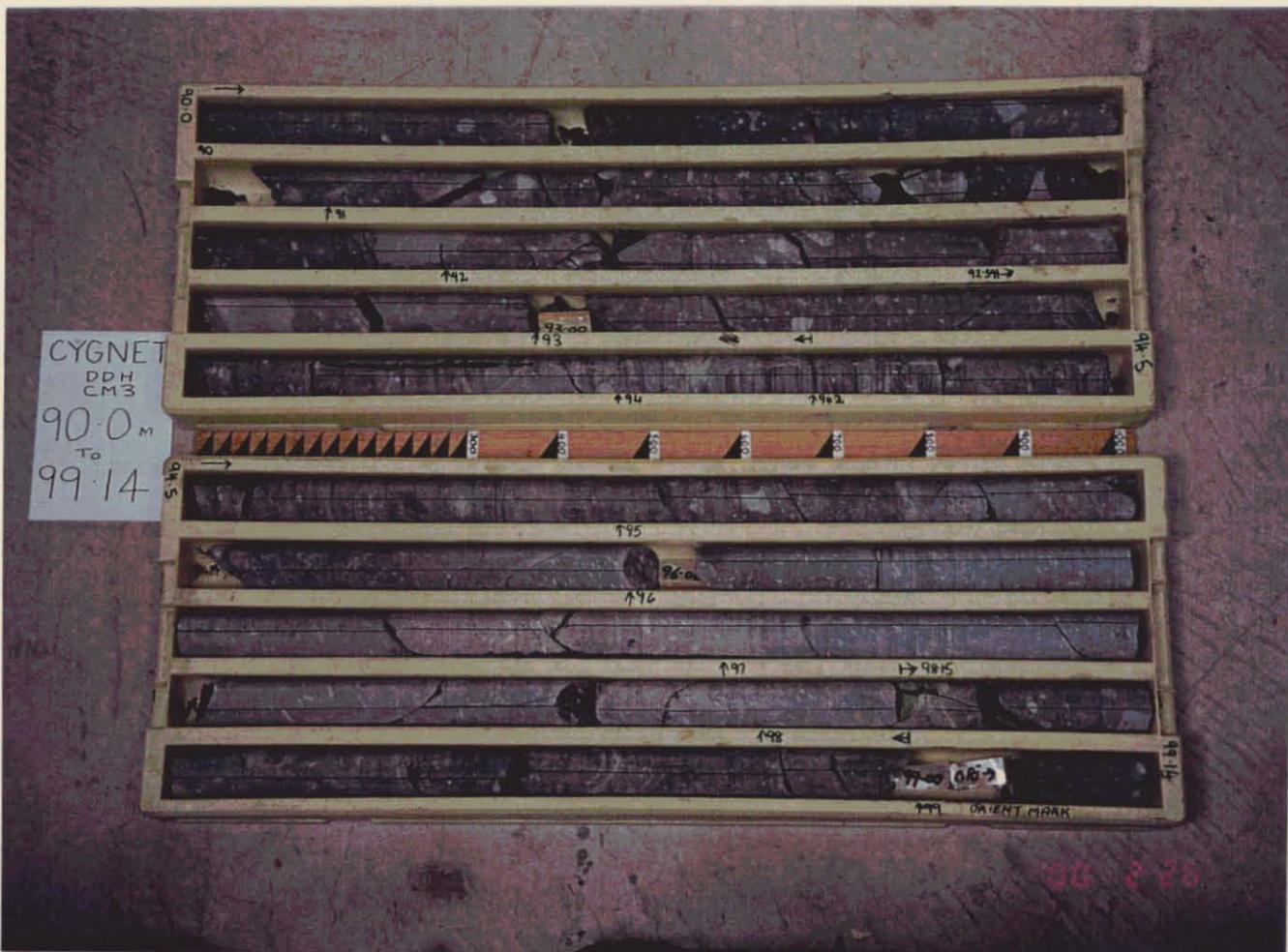


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CM3
77.3 M
TO
81.0 M.



CYGNET
DDH
CM3
81.0 M
TO
90.0 M







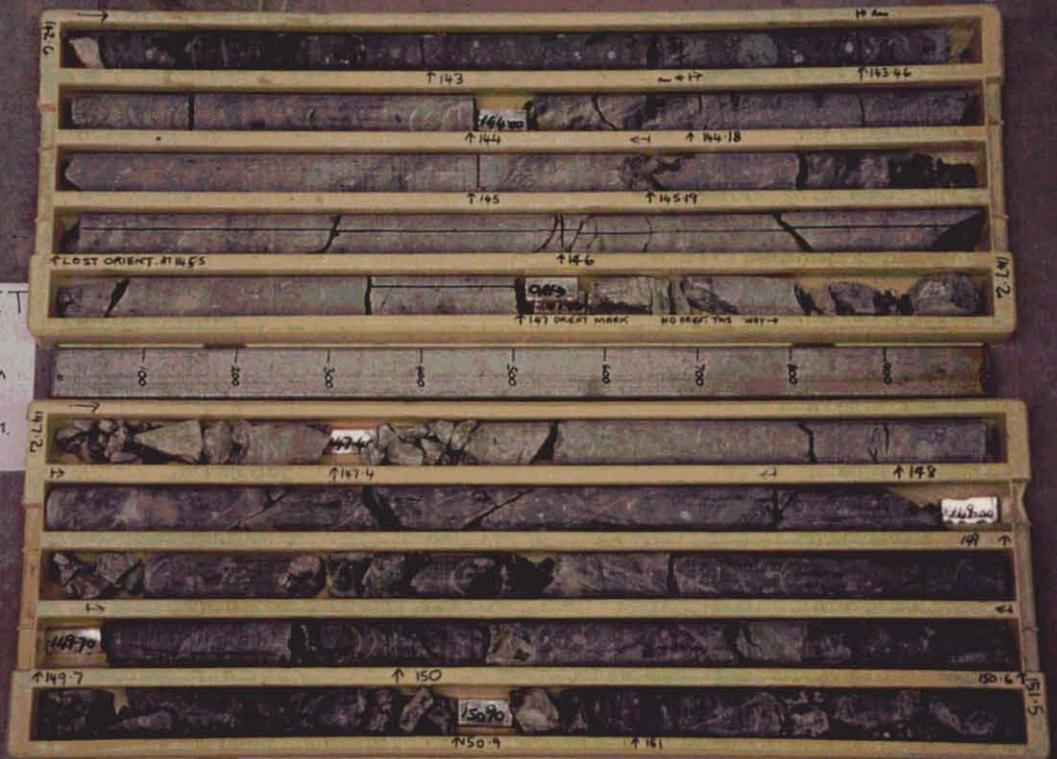
CYGNET
DDH
CM3
125-65 M
TO
134.2 M.



CYGNET
DDH
CM3
134.2 M
TO
142.6 M



CYGNET
DPH
CM 3
142.6 M
TO
151.5 M



00 3 1

CYGNET
DPH
CM 3
151.5 M
TO
160.1 M



00 3 1

CYGNET
DPH
CM3

1601 M
TO
168.2 M



CYGNET
DPH
CM3

168.2 M
TO
176.1 M



30 3 1

30 3 2

639213

CYGNET
DDH
CM3
176.1 M
To
184.15



CYGNET
DDH
CM3
184.15 M
To
192.1 M



00 3 3

639244

CYGNET
DDH
CM3
192.1 m
to
200.1 m.



00 3 3

CYGNET
DDH
CM3
200.1 m
to
208.75 m.



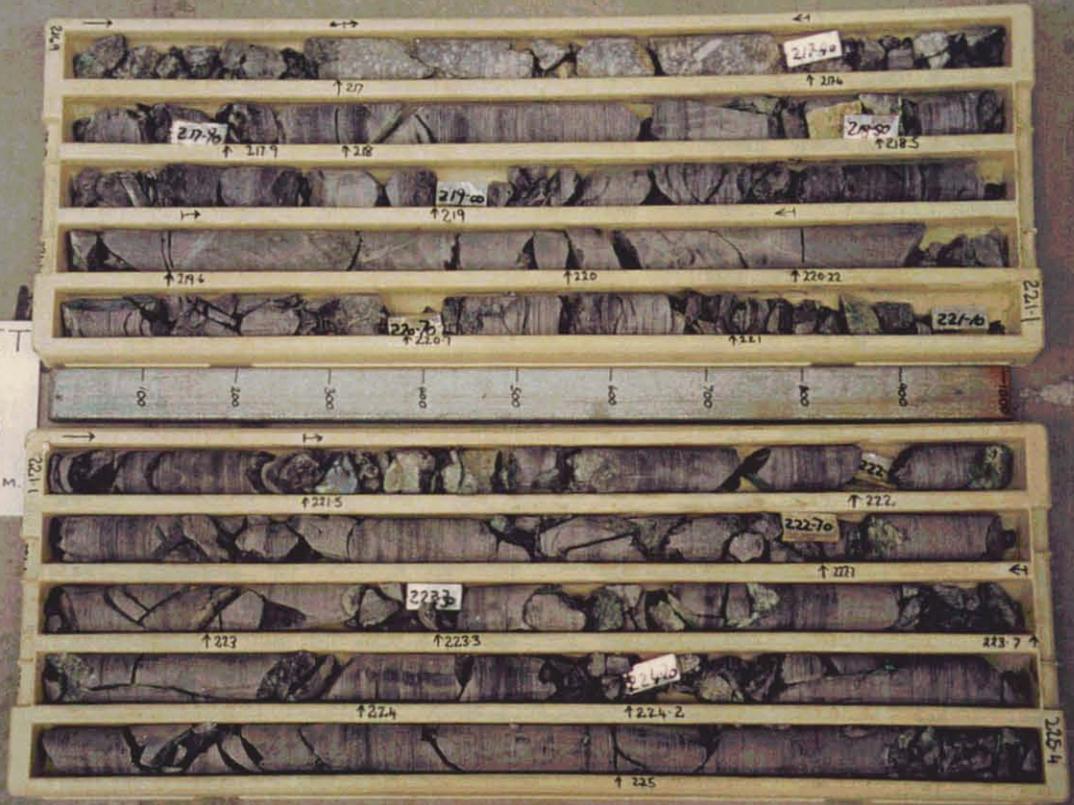
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CYGNET
DDH
CM3
208.75m
TO
216.9m



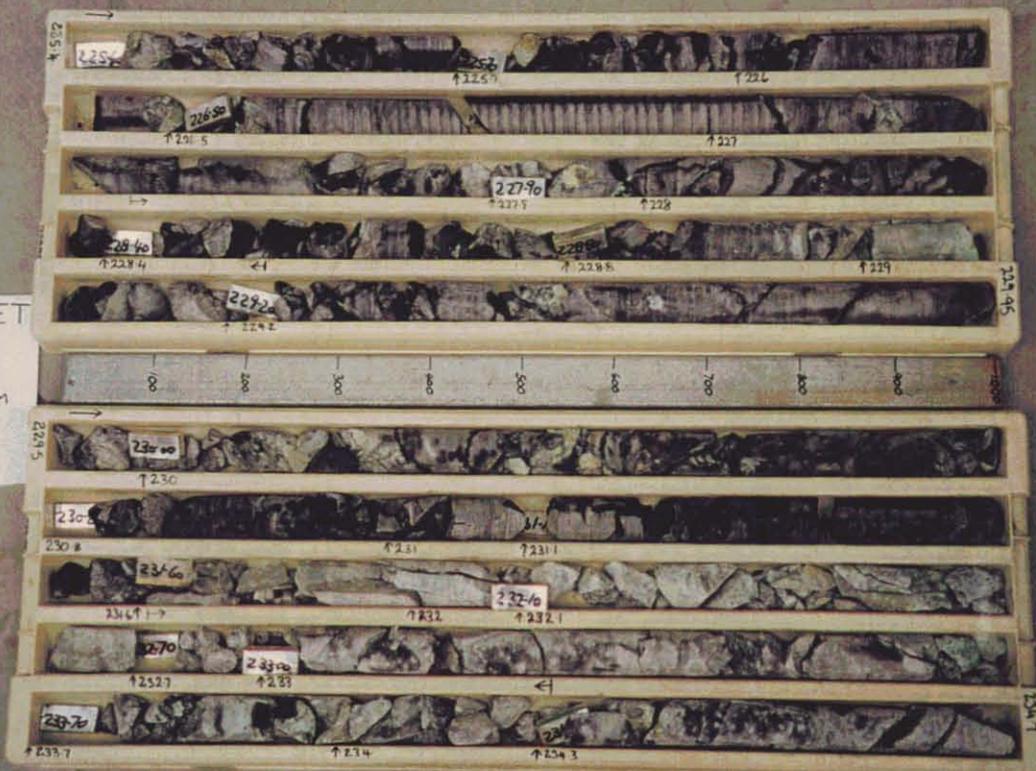
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CYGNET
DDH
CM3
216.9m
TO
225.4m



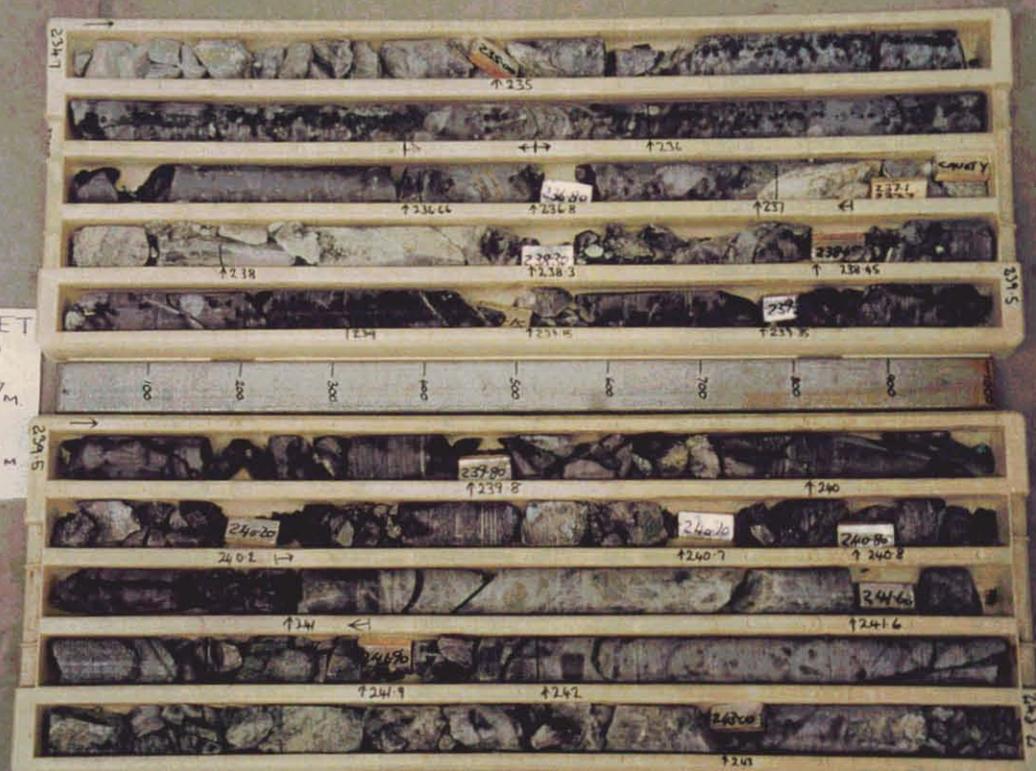
00 3 13

CYGNET
DDH
CM3
225.4m
to
234.7m



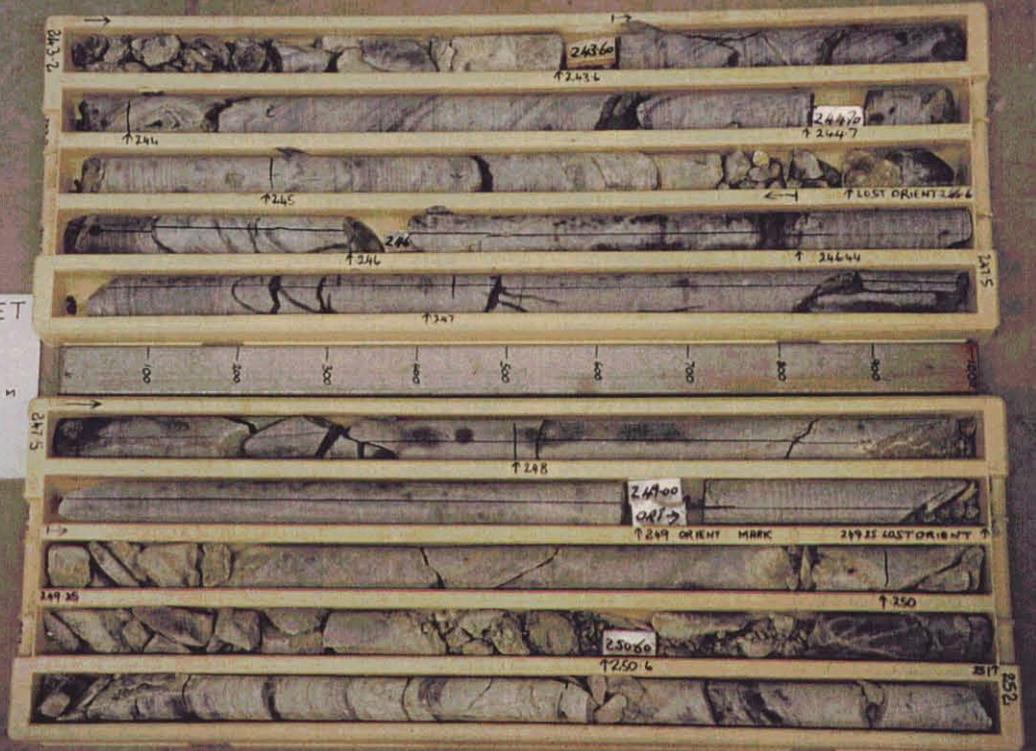
00 3 13

CYGNET
DDH
CM3
234.7m
to
243.2m



00 3 13

CYGNET
DDH
CM3
243.2 m
TO
252 m



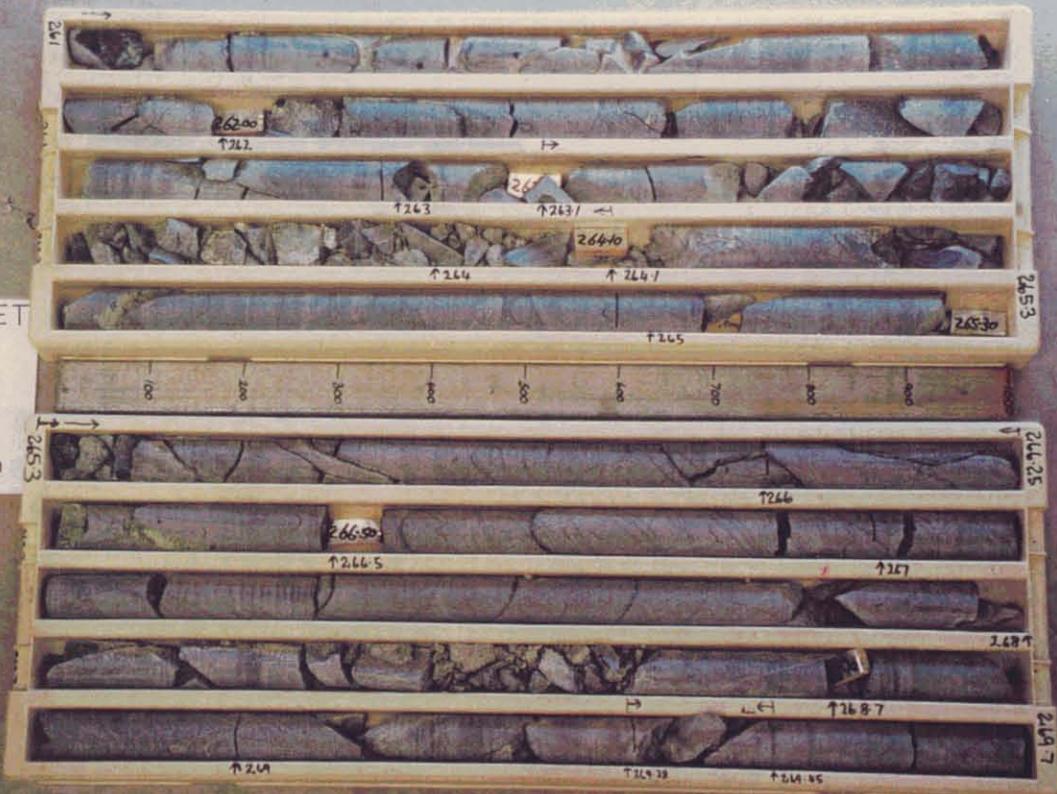
00 3 14

CYGNET
DDH
CM3
252 m
TO
261 m



00 3 15

CYGNET
DDH
CM3
261 M
To
269.7 M

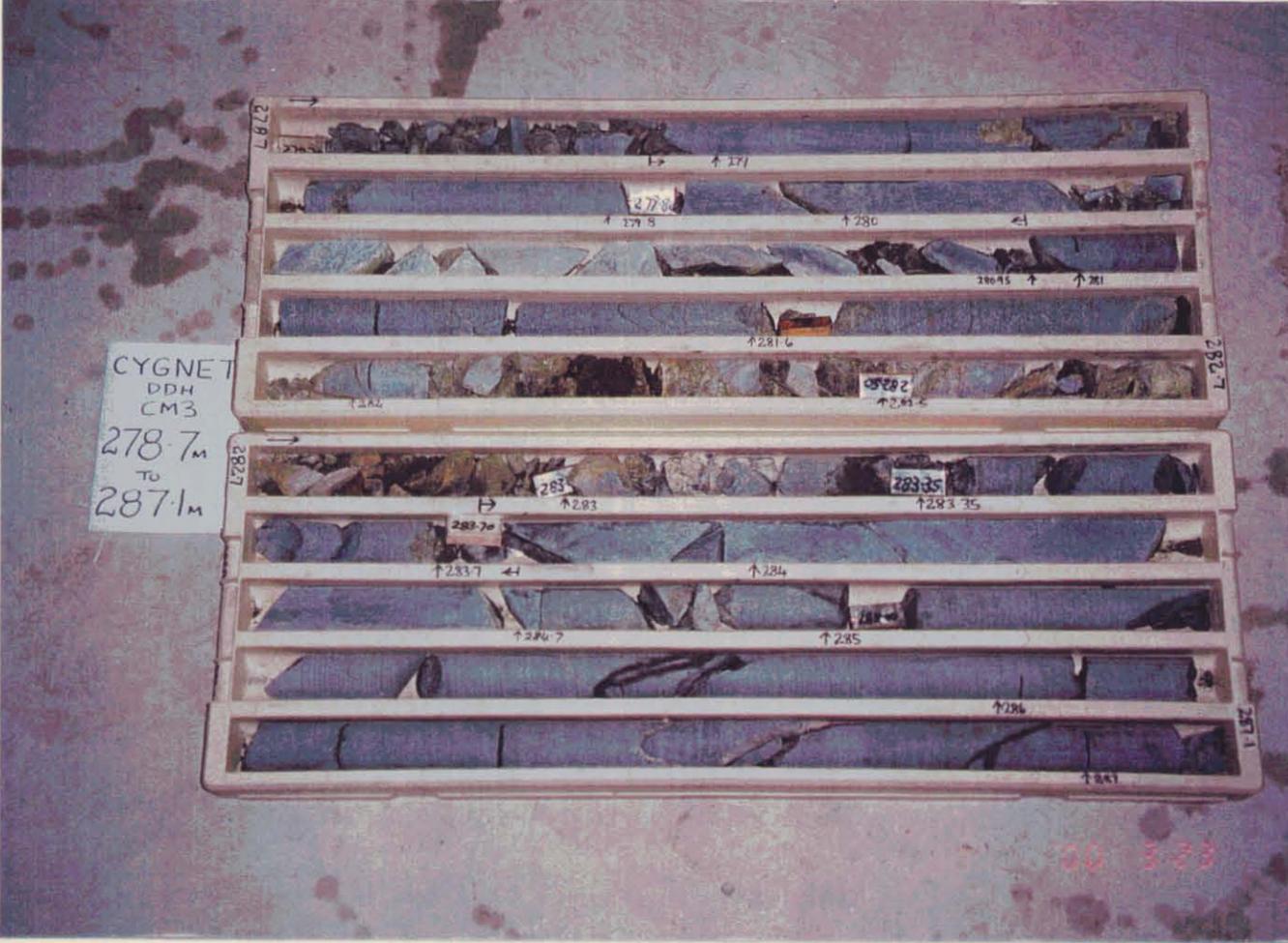


00 3 15

CYGNET
DDH
CM3
269.7 M
To
278.7 M



00 3 15



CYGNET
DDH
CM3
287.1 M
To
296.2 M



00 3 15

CYGNET
DDH
CM3
296.2 M
To
305.25 M



00 3 15

CYGNET
DDH
CM3
305 25
E
313 77



00 3 17

CYGNET
DDH
CM3
313 77
To
317 2
E.O.H.



00 3 17