ANNUAL REPORT
ERL116 - MOUNT PORTER,
NORTHERN TERRITORY

FOR THE PERIOD 12/9/96 TO 11/9/97
1:250,000 - Pine Creek, SD52-8
1:100,000 - Pine Creek, 5270

VOLUME 1 OF 2

Distribution:
Principal Registrar, NT Dept. Mines & Energy (1)
Exploration Manager, RGC (1)
Homestake Gold of Australia Limited- Perth (2)

Author:
J.I. STEWART
B.Sc.(Hons.), M.Sc., Dip.Ed.,
AM.Aust.I.M.M.
Principal Geologist

CR97/757A
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SUMMARY

Work on ERL116 comprised the drilling of 2,185.8 metres in six diamond drill holes. The search was for a position of major gold enrichment in three target areas; the steeply dipping E-limb structure at the “10,400” Deposit, the MPDH230 follow-up, and on section 11,200N (400 metres south of MPDH231).

The two best gold intercepts were in MPDH234 and 237; 24.0m at 0.42 and 14.0m at 0.58g/t, respectively. The target horizon (Koolpin Facies BIF) was not intercepted down the sub-vertical eastern fold limb at 10,450mN due to drilling difficulties and geological complexities.

Although the work to date continues to show that the Koolpin BIF-horizon is a significant repository of gold, the tenor of metal is of sub-economic nature only. The E-limb structure still remains an untested target.

The joint venture partners plan to reaccess the project for its potential to host positions prospective for a major economic gold deposit.
1. INTRODUCTION

Tenure: Exploration Retention Licence 116 was granted to Renison Goldfields in the 1980’s and renewed on 28 November, 1995 for a period of 5 years. A Joint Venture Agreement to explore the Licence was signed by RGC and Homestake Gold of Australia Limited on 16 March, 1996.

Homestake is currently the manager of the Joint Venture and this report covers the exploration conducted by and on behalf of the Joint Venture in the period 16 March to end October, 1997.

Access: Access to the area is via the sealed Stuart Highway, some 223km from Darwin to the township of Pine Creek, then along the sealed Kakadu Highway for 2km, and finally along the unsealed Francis Creek Road for 17km (Figure 1).

2. CONCLUSIONS

It is recommended that drilling should test the eastern limb of the Main Mount Porter Anticline, under the Hangingwall Dolerite. In a zone from 9,000mN to 12,200mN, there is ample low grade gold mineralisation, over widths of 12 to 20 metres, to suggest the possibility that a significant medium to high grade deposit could be present at depth. Work would need to focus on the blind regions between 10,300 and 10,450mN where the lithostructural circumstances may be optimal for an upgrade in gold tenor.

At this stage the probability of discovering a major gold deposit on the project area is considered to be rather low. The joint venture is in the process of accessing the 1996-97 drill data before it commits to further deep drilling.

3. HISTORY

The Mount Porter prospect was discovered by RGC (Goldfields Exploration Pty Ltd) geologists during a helicopter-borne sampling survey in 1984. Subsequent to the discovery, a number of sampling, mapping and drilling programmes were completed; including 177 RC-percussion drillholes, 24 diamond drillholes and 10 trenches. Ore reserve/feasibility studies were completed in 1992, 1993 and 1995.

In 1993, G.S. Eupene (of Eupene Exploration Enterprises) was commissioned by RGC to prepare the known ore resource for exploitation and to identify targets for possible reserve expansion. A comprehensive review of previous work and the results of the Eupene study were documented in Eupene (1994).
The current Homestake/RGC Joint Venture, in which Homestake can earn a 60 percent interest, was formed with the aim of exploring for major new mineralised positions of the Mount Porter - Cosmo-Howley style either deep in the Mount Porter Central Anticline, on other associated antiform positions, in the Lower Koolpin Formation (eg. under the 10,400 Deposit), and in extension areas of the 10,400 Deposit (i.e. areas “screened” by the Hangingwall Dolerite, under down faulted blocks, and on the steeply dipping eastern limb).

4. GEOLOGICAL SETTING

The rock sequence at Mount Porter belongs to the South Alligator Group (1.85byr.) - see Figure 1b. This is subdivided, in ascending order, into the Koolpin Formation, the Gerowie Tuff and the Mount Bonnie Formation. The Koolpin Formation is apparently underlain by the Mount Partridge Group (namely the Wildman Siltstone and Mundorgie Sandstone) and the Namoona Group (Masson Formation, Coomalie Dolomite etc.) which are essentially shale-siltstone, limestone, calcareous shale and sandstone sequences. The Koolpin Formation is broadly characterised by carbonaceous shales, silicate-sulphide - “iron formations” and mafic sills (Zamu Dolerite). There is evidence from current work that the Lower Koolpin Formation is transitional into an older calcilutite-limestone sequence, which opens the possibility that it may be temporally related to the Mount Partridge Group. The Middle Koolpin sequence, both regionally and locally, consists of the maximum concentration of banded iron, nodular chert units below an essentially pyrrhotitic shale sequence (the Upper Koolpin). It is a well recognised time stratigraphic unit comprising chemically distinctive concentrations of silicate and sulphide Fe (cummingtonite-actinolite, grunerite, garnet, pyrrhotite-pyrite), nodular chert, “tourmalinites” and pyrrhotitic shale (Nicholson & Eupene, 1984).

Overlying the Upper Koolpin sequence is the Gerowie Tuff which consists of white-black siliceous welded tuffs, tuffaceous siltstones (Goulevitch, 1980), grey siltstones and laminated chert. The stratigraphically higher Mount Bonnie sequence consists of a hybrid mixture of Koolpin and Gerowie-like lithologies and fly schoidal (greywacke) sediments of the overlying Burrell Creek Formation (Finniss River Group).

At Mount Porter, the target sequence is the Middle Koolpin Formation. Prior to the 1996 field programme, this unit was best observed in the drilling and mapping of the 10,400 Deposit. Here it consists of a 15 to 45 metre thick unit comprising, in descending order, 15-20 metres carbonaceous shale, 5.5-8.0 metres of chloritic BIF, 2m carbonaceous BIF, 4.0-8.0 metres of chloritic BIF, 5.5 metres chloritic-carbonaceous BIF, >9m of carbonaceous, chloritic BIF hornfels. At the 10,400 Deposit, this sequence is overlain by a medium grained dolerite, some 65 to 70 metres thick. This dolerite position is
reasonably widespread throughout the district. It is a sill and is pre-folding in age. Consequently, it often acts as a geochemical “screen” over the prospective Middle Koolpin horizon. At the 10,400 Deposit itself, the dolerites form a steeply dipping eastern limb and occupy fault blocks to the north and south. In many areas of the Mount Porter Anticline, the dolerites are host to auriferous quartz veining (eg. Figure 4) and/or extensive sericite/carbonate-arsenopyrite alteration.

Gold mineralisation in the “10,400” area is largely confined to the sulphide-silicate facies BIF/chloritic shale/nodular chert package (approximately 15 to 45m in true thickness) on the western limb and fold-nose of the Mount Porter Main Anticline - a stratigraphic length of about 1,200 metres. Although the tenor of gold in this preferred lithological package is in the 0.5 to 1.5 g/t range, the gold-nose area contains a higher grade resource of 248,000 tons grading 3.90 g/t. Geologically, this represents a protore mineralised zone of perhaps 350,000 to 400,000 oz. Au.

In terms of the detailed controls on the gold mineralisation, there is a correlation between higher grades and proximity to the fold-nose. If the Cosmo-Howley deposit is a reasonable guide to ore zone geometry, then the untested, steeply dipping Eastern Limb of Mount Porter must also be considered as a prime exploration target. A reasonable correlation also exists with arsenopyrite concentration and, to a lesser extent, milky-white/grey quartz veins. However, as with the Cosmo-Howley deposit, the gold-arsenopyrite-quartz vein relationship is equivocal. Petrology shows that as much gold is associated with the silicate minerals and pyrrhotite (and their precursors) as it does gold in arsenopyrite or near quartz veins (Stewart, 1996).

A notable feature of the Mount Porter 10,400 Deposit is the spatial relationship with granite. Figure 1 illustrates the regional setting and Figure 2 shows the deposit position to be approximately 600 metres from the Allamber Springs granite contact. In both outcrop and drilling a hornfels zone comprising spotting by both cordierite and andalusite in carbonaceous shale is located up to and below the 10,400 Deposit position.

In terms of spatial position, the 10,400 Deposit is within the influence of the thermal contact aureole of the Allamber Springs granite. Mineralisation is preferentially in the BIF-chert package, directly below a heavily pyrrhotitic, graphitic-carbonaceous shale. Higher gold grades are focused in a fold-nose under a brittle, pre-folding aged, dolerite sill and, perhaps, in the subvertically dipping eastern limb. The dolerite shows brittle-fracture related hydrothermal alteration of the mesothermal style, and the mineralisation contains ample evidence of replacive metasomatism in sulphide mineralogies. There is thus an implication that the reactive, (favourable) source beds, the hangingwall reduced facies rocks, the structural positioning and the distal position from the granite were the critical ingredients required for the focusing of a prograde
Mount Porter/Francis Creek Geological Setting and Tenure

Figure 2

Legend:
- Granite
- Zamu Dolerite
- Burrell Ck Formation (1,870 mil)
- Mt Bonnie Formation
- Gerowie Tuff (1,880 mil)
- Koolpin Formation
- Mt Partridge Group (Widman Siltstone)
- Basement (2,500 mil)

Acacia Resources (Billiton)
McLeary Option HGAL 80%
HGAL/Goldfields J.V. 60%/40%

Scale: 0 - 2 km
granite derived hydrothermal fluid and/or the refocusing and upgrading of precursor, indigenous, stratabound Au-As protore mineralisation.

The aim of the Homestake/RGC exploration Joint Venture for 1997 has been to locate larger deposits of the Mount Porter - Cosmo Howley type in a number of geochemically anomalous positions along the steeply dipping eastern limb of the 3km long antiformal zone on ERL116.

5. WORK COMPLETED AND EXPENDITURE

During the work period, the Joint Venture completed data compilation, modelling of the 10,400 Resource area in VULCAN, surveying of drill collars, and diamond-percussion drilling.

Supervision and execution of the drilling programme was undertaken by Exploremin Pty Ltd of Darwin, and geologist Simon Omotosho of Auserian Exploration (Darwin). Drilling was undertaken by Gaden Drilling of Batchelor; Assaying was completed by AssayCorp of Pine Creek.

The drilling completed is listed as follows:

**MOUNT PORTER - MINERALISED INTERCEPTS 1996 & 1997 DRILLING PROGRAMMES**

<table>
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<th>HOLE</th>
<th>FROM</th>
<th>TO</th>
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<th>Au (ppm)</th>
<th>As (ppm)</th>
<th>METRES DRILLED</th>
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<td>59</td>
<td>64</td>
<td>5.0</td>
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<td>0.46</td>
<td>934</td>
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<td>231</td>
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<td>330</td>
<td>7.0</td>
<td>0.46</td>
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<td>272</td>
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<td>1.74</td>
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<td>364</td>
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<td>(wedge hole W1 236m)</td>
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Figure 3 illustrates the location of the drilling. Appendices 1 to 6 contain drill logs and assay certificates. Figures 4 to 8 contain the geological cross sections and assay sections for each of the 1997 drill holes.

The following table lists the expenditure for the period to November, 1997.

**MOUNT PORTER ERL116**
Exploration Expenditure Report

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<td><strong>TOTAL: ($A)</strong></td>
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General discussion and results for each drillhole follows:

**MPDH232** (10,469.7mN/10,288.9mE) Figures 4a & 4b; Appendix I. This hole was drilled to test the BIF units on the eastern limb of the main Mt Porter anticline at depth adjacent to the 10,400 Zone deposit. It drilled through dolerite from 0 to 255 metres, encountered a major fault zone to 260m and passed directly into footwall calc-silicate hornfels and marble.

The best assay was associated with a massive 10cm band of pyrrhotite; 272 - 273m; 1m at 1.74g/t Au.
View to the SE of Mt. Porter
Low Grade-Envelope Blocks

10,400' Deposit

Figure 8

JTS 12/96
A weak calc-silicate FW sequence and dolerite at the base of the hole, combined with BIF repetition (?) suggests a piercement point just below the crest of the anticline (Goulevitch, pers. comm.).

Weak gold mineralisation was encountered; 14m at 0.58g/t (364-378m); 6m at 0.33g/t (346-352m); 4m at 0.16g/t (259-263m).

**Vulcan Imaging of “10,400” Deposit:**
Vulcan imaging technology was used to correlate the low grade gold envelope and higher grade drill intercepts of the “10,400” deposit into a 3-D block. It was found that the SW-limb of the zone was mineralised over widths of 15 to 45 metres for 850 to 1,000m length before abutting the Allamber Springs Granite contact. Higher grade mineralisation is confined to the 10,300 to 10,500mN zone where tight folding and faulting abounds. Here the BIF bearing fold nose occurs in overlain subcrop. To the north, it is by a thick Hangingwall Dolerite. The eastern fold limb is not well mineralised south of 10,000mN.

Vulcan imaging showed that potential still lay north and east on the down rake portion of the fold crest and perhaps the eastern limb at 10,400mN; rather than down dip of the SE and SW limbs.

6. RESULTS AND DISCUSSION

During the 1997 drill season, over 2,185.8 metres of drilling were completed in six diamond drill holes.

The holes tested three areas along the eastern flank of the main Mt Porter Anticline over a longitudinal section of about 1,000 metres.

The aim of the 1997 programme was to seek a major upgrade in gold tenor where the primary-protoore auriferous BIF sequence is coincident with a subvertical fault or shear zone following the E-limb of the anticline. Hole MPDH237 (14m at 0.58g/t Au) further showed that the Koolpin BIF unit at Mt Porter is auriferous from at least 9,400mN to beyond 11,600mN (over 2,000 metres). The typical BIF commonly assays 0.4 to 0.6g/t Au over an average width or widths of 7 to 14 metres.

The prime target position, near 10,400mN has proven to be a major drilling problem for both Renison Goldfields and Homestake. That is, it is difficult to achieve piercement points in BIF either down rake or on the sheared E-limb of the 10,400 deposit position.
However, based upon piercing points north of "10,400", at 200 to 300 metre intervals (and the low grade nature of the SW limb) it is most likely that higher grade mineralisation (4 to 12g/t Au) is likely to be in small (<500,000 tons) zones only. Whilst high grade deposits may also be present on the fold nose positions, these represent difficult drill targets and less viable exploration and economic targets.

Subject to completing a more satisfactory test of the E-limb position at 10,400mN it would seem that the Mt Porter BIF mineralisation represents one or both of the following:

a) An auriferous, exhalative banded sulphide, silicate, chert unit at the transition from calcareous shale to pyrrhotitic black shale. With a background or primary gold value of about 0.5g/t this unit could (by structural, thermal and metasomatic processes) be progressively upgraded into a 4 to 6g/t gold deposit; perhaps of the Granites-Tanami style? Further upgrading might, conceivably, be required to attain an endowment of the magnitude present at the Homestake Mine - Lead, Dakota??

b) A chemically reactive BIF unit at the reductive interface between calcareous sediments and graphitic, pyrrhotitic shales. The unit is also more porous and structurally vulnerable between brittle deforming carbonate rocks and ductile and impervious shales. The chert nodule horizons and crystalline, heterogeneous, silicates enhance the permeability of the Koolpin BIFs. This would be the ideal unit to precipitate upward percolating magmatic fluids from the underlying Cullen granite and/or magmatically mobilised intraformational fluids within the Koolpin BIF-facies.

It is tempting to ascribe a major role to the nearby granitoid contact in supplying the thermal gradient necessary to drive magmatic or connate fluids along the Koolpin BIF unit. The Koolpin BIF would act as a metasomatic conduit? The 10,400mN deposit lies approximately 600 to 800m distal to the granite contact at the outer edge of the cordierite-andalusite hornfels zone. In the subsurface the 2km length of the Mt Porter antcline has been subjected to patchy calc-silicate hornfelsing in the footwall to the BIF unit. This footwall position commonly contains Zn and Cu mineralisation, which may be an "inboard" metal zonation from the Au-As positions drilled??

It is suspected that the northerly plunging granite contact is about 600 to 800 metres below the intercepts in MPDH321, 237, 228, 230 etc. That is about 1km (-200m) in the subsurface.
In either case, Homestake has been unable to identify an enhanced zone of fluid-flow with the dimensions that could produce a multi-million ounce, high-grade gold deposit.

The project is currently under review to determine if a more concerted and higher drill-density effort can be justified around the 10,400 deposit.

7. REFERENCES


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FIGURES & APPENDICES

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B.Sc.(Hons.),M.Sc.,Dip.Ed.,
AM.Aust.IMM.
Principal Geologist

CR97/757B1
APPENDIX I
## EXPLOREMIN PTY LTD - DRILL HOLE LOG

**Drill Hole:** MPDH-232  
**Tenement:** ERL 116  
**Prospect:** MOUNT PORTER  
**Map Ref:**  

**AMGS/Grid E:** 10289.2  
**AMGS/Grid N:** 10776.3  
**Azimuth:** 272.5°  
**Inclination:** -60°  
**Commenced:** 9/4/97  
**Completed:** 10/4/97  
**Total Depth:** 48m  
**Hole Size:** 4½"  
**Casing:**  
**Sheet:** 1 of  
**Logged by:** S.J.  
**Drillers:** GADEN  
**Sample Type:** RC 2cm composite  
**Drill Type:** HDDMUN-RV-150  

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<th>Minor Minerals</th>
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## EXPLORMIN PTY LTD - DRILL HOLE LOG

**Drill Hole:** MPOH-232  
**Tenement:** EAll 116  
**Prospect:** Mount pepper  
**Map Ref:**  
**AMG Grid E:** 10289.2  
**AMG Grid N:** 10476.3  
**RL Collar:** 520.5  
**Client:** NGAL  
**Commenced:** 9/4/97  
**Completed:** 10/4/97  
**Inclination:** -60°  
**Azimuth:** 272°  
**Total Depth:** 48m  
**Hole Size:** 4½”  
**Sample Type:** RC 2m composite  
**Casing:**  
**Logged by:** 5-O  
**Drillers:** GADEN  
**Drill Type:** WORMAN EXPLORER Drilling Rig URH-650  
**Sheet:** 2 of 2

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(EN) - all for last 6m
EXPLORERMIN PTY LTD - DIAMOND DRILL HOLE LOG

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<td>with greenish, orange, green, yellow, and brownish, chlorite, pyroxene, and feldspar, and minor dickite. Each phase is generally defined by outline to form a thin layer.</td>
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| Hole Survey - Depth/Unit/Azim | 080 m 1 58.5 1 - | 58m 1 58.5 1 272 | 48m 1 58.1 225 |
EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

Drill Hole: ADH-232  
Tenement: F11-16  
Prospect: Mason Range  
Map Ref: S020730E  
Hole Surv - Depth/Inch/Azim: 254.0  

Geological Description:

122-190 254.0Ft (ca 39m) from 250.7 Ft end of interval: Carbonate alteration evident, deeply pocky with dark alteration. 70% Carbonate also mantle pocky, extensive calcite oxidation. basalt, dolomite, silt, mica. basaltic gneiss - fusion gneiss  

142-254.0Ft Carbonaceous, Slightly Blasted, fine ground graphite in scattered depression. Complete Streaks of matrix alteration, mosaic of mica + altered matrix. montmorillonite + altered matrix, rounded. Some in place reduced to graphite core. matrix py in host rock. matrix also  

254.0Ft 294.30 Marble, hole very medium grained rock with 90% Silt altered shales from calcite recrystallisation, altered chloritic and pale green, chloritic alteration. Slight alteration grade to horn. + py in chert to 25cm+ in place. Silicate. Pale grey matrix shown near laminations at 28.4Fe. Al 237.4Cp  

Iron ore of size 1.5m. Massive. 208.30 So? 28  

294.30 295.0 Disharole green chlorite green, green, green, matrix calcite, 295.0Ft  

Electrode 0.9Ft  

E.D.
## EXPLOREMIN PTY LTD
### CORE RECOVERY, RQD, FRACTURE COUNT

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# EXPLOREMIN PTY LTD
## CORE RECOVERY, RQD, FRACTURE COUNT

**Drill Hole:** MV/43-25L  
**AMS/Grid E:** 103389  
**Tenement:** CA-LE 118  
**AMS/Grid N:** 104170  
**Prospect:** MOUNT POLTER  
**RL Collar:**  
**Azimuth:** 272.5° T/NW  
**Inclination:** -60°  
**Commenced:** 9/4/77  
**Completed:** 16/4/77  
**Total Depth:** 295.0 m  
**Logged by:** S. O.  
**Hole Size:**  
**Drillers:** CATERA

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*E. O. H.*
ASSAYCORP

ASSAY CODE: AC 35791

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MPDH 232EOH 6-8 | 0.02 | 0.02 | 70 |
MPDH 232EOH 8-10 | 0.02 | 0.03 | 59 |
MPDH 232EOH 10-12 | 0.02 | 0.03 | 37 |
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MPDH 232EOH 20-22 | 0.01 | 0.02 | 52 |
MPDH 232EOH 22-24 | 0.07 | 0.08 | 100 |
MPDH 232EOH 24-26 | 0.07 | 0.10 | 110 |
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MPDH 232EOH 32-34 | <0.01 | <0.01 | 37 |
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MPDH 232EOH 44-46 | 0.02 | 0.01 | 30 |
MPDH 232EOH 46-48 | 0.01 | 0.01 | 50 |

Method | FA50 | FA50 | G300A

Note: This cover sheet is an integral part of the report. This report can only be reproduced in full.

Authorisation: Ray Waddell
Report Date: 15/04/97
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**Assay Code:** AC 36005

**Method**

- FA50
- FA50
- 8300A

---

Report Comment: This cover sheet is an integral part of the report. This report can only be reproduced in full.

Authorization: Ray Woolridge

Report Date: 29/04/97
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**EXPOREM IN PTY LTD - DRILL HOLE LOG**

Drill Hole: MDPH 233
Tenement: EKL116
Prospect: MT DORTEX
Map Ref: 56/17

AMG/Grid E: 1034706
AMG/Grid N: 106641
RL Collar: 498.6
Client: 1272

Azimuth: 270° AMG
Inclination: -66°
Total Depth: 66m
Casing: 6in PVC
Commened: 9/4/94
Completed: 1/9/95

Sheet: 3 of 4
Logged by: JA
Drillers: GADEWS
Drill Type: UPB250
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<th>To</th>
<th>Geological Description</th>
<th>Graph Log</th>
<th>Mineralisation Fe-S-O (est %)</th>
<th>Alteration/Metamorphism (est %)</th>
<th>Apy Vns Depth Struc α β</th>
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<td>Interal consists of banded mixtures of dark grey, sandy-brownish carbonaceous silicate</td>
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<td>with occasional darker banding</td>
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<td>73.00</td>
<td>75.7</td>
<td>Pitchblende, Epidote, Quartzites, Carbonates</td>
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<td>Unit includes black carbonaceous silicate</td>
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<td>81.80</td>
<td>Carbonaceous Silstone, graphite, fine grain, and carbonaceous</td>
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**Notes:**
- Graph Log indicates presence of minerals indicated by symbols.
- Mineralisation Fe-S-O data includes percentage of Fe, S, and O.
- Alteration/Metamorphism data includes estimated percentages of various components.
- Apy Vns indicates apatite and vanadium content percentages.
- Depth and structural data provide additional measurement and orientation information.
EXPOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

Drill Hole: MDH - 233  
Tenement: 601 - 116  
Prospect: MT PORTER  
Map Ref: 88 Creek, 5270  
Hole Survs - Depth/Vinic/Azim: 105 1 65 1 275'  

Mineralisation
Fe O-C (est %)  Alteration/Metamorphism (est %)
Graph Log  Apy Vns qz stybes Depth Shive α β

From  To  Geological Description
75-0 21-0 (cont) felling, rape, veo & dacic intrusives of 291m, 352m. Abundant very mixed quartz, feldspar, biotite, vermicular
75-0 75.3 109p120m. Streaky feldspar, feldspar, biotite, vermicular
75-0 119.5 essentially similar

Apy  Vns qz stybes  Depth  Shive  α  β
144.5  50  32
180.4  50  15
181.4  50  0.0
184.8  50  15
184.8  50  15
198.2  50  28.5
205.2  50  27.05

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<th>From</th>
<th>To</th>
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<th>Graph</th>
<th>Mineralisation Fe-S-O (est %)</th>
<th>Alteration/Metamorphism (est %)</th>
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<tbody>
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<td>214P</td>
<td>214P</td>
<td>Siltstone: Dark grey fine-grained, mainly matrix but with recognisable bedding at 214m. Interbedded pink ashy shale with top 1m of interval top control in peddland - bottom control in slope.</td>
<td>Log</td>
<td>27% Py</td>
<td>V, Cu, Zn, P</td>
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<td>214P</td>
<td>214P</td>
<td>Carboneous Siltstone: Dark grey-black fine-grained, graphitic, biohernalite, hematite-cracked, brecciated by thin, clear, quartz and carbonated veins with minor pyrite. No obvious over-crust, but veins in control banding.</td>
<td>Log</td>
<td>32% P</td>
<td>V, Cu, Zn, P</td>
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<tr>
<td>221P</td>
<td>221P</td>
<td>Siltstone: grey-green fine-grained, laminated with massive, 15m thick, 35cm. dolerite interval above 221P interval shows very thin pyrite. Dominated by carbonate, Fe oxides could be contact metamorphic effect with dolerite.</td>
<td>Log</td>
<td>11% P</td>
<td>V, Cu, Zn, P</td>
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<tr>
<td>222P</td>
<td>222P</td>
<td>Dolerite: Green medium-grained with interbedding of pyroxene, actinolite and talc. By occurs in rare phyllic x-foliation, from 222P to 229P, dolerite in.</td>
<td>Log</td>
<td>51% P</td>
<td>V, Cu, Zn, P</td>
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EXPLORMIN PTY LTD - DIAMOND DRILL HOLE LOG

Drill Hole: MDTH-235
Tenement: EBL-116
Prospect: MT BOGGE
Map Ref: River Creek, 5270
Hole Surv.: Depth/Inclin/Azim 246m-1, 61.5° 1, 283°

From To Geological Description

293.9 293.5 (cont) chlorite laced fracture zone.
      micro chalcopyrite phlegm veining.
      Cross 23.5m, 40° E., vein to 2mm at
      24.7m. Shows horizontal parallel with calcite
      Silt. Bottom 5cm of dolomite slightly
      more sulphide. Contact orientation in
      285/35 SW. - huige contact?

293.5-27.0 Cachanacum, Siltstone; Dark grey, black.
      south, graphitic, less mafic.
      bedded, more mafic, less graphitic.
      Sampled, 80, 80, over a zone
      laminated, and on same fracturing.
      At 293.9 measured So = 185/35 W.
      At 293.5 gre talnick of pale
      grey, the band more massive.

293.9-27.0 (cont) weakly graphitic could be sericite
      band or py. sulphide alteration.
      At 258.6
      Exposed in bedding at 10cm
      Mickell. Uplap, dip 50° 190/18 W, Burnum
      Int. So = 200/190, parcellised plagioclase
      Weakening of unit. At 261m, So = 185/35 W.
      So definite halo show development by
      NW-SE fractures. At 249m so in
      parallel to fault, slight sheared with
      a grossly weathered, dipping unit.

Mineralisation Fe-S-O (est %)

Alteration/Metamorphism (est %)

Apy Vns Otu, DMS Depth Struc α β

Graph Log

51°, 21° 51° 21°
# EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

**Drill Hole:** MPH-233  
**Tennant:** EEL-16  
**Prospect:** MI POLTER.  
**Map Ref:** Wac Creek 5270  
**Hole Surv - Depth/ft/inch/Azim:** 276m 1/61 306 306m 1/60 230

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>277-85</td>
<td>281-40</td>
<td>(cont) Andalusite occurs much less frequently in this carbonatite unit. A similar alteration has been observed in the basal dacite, which contains some carbonatite. The carbonatite is characterized by a greenish-grey, fine-grained matrix containing scattered blebs of olivine and clinopyroxene. The alteration is intense, and the rock is altered to a dark green, medium-grained diabase with some visible carbonatite.</td>
</tr>
<tr>
<td>277-90</td>
<td>279-20</td>
<td>Carbonatite: Blende + Quartz + Calcite + Mica + Dolomite. The carbonatite is characterized by a greenish-grey, fine-grained matrix containing scattered blebs of olivine and clinopyroxene. The alteration is intense, and the rock is altered to a dark green, medium-grained diabase with some visible carbonatite.</td>
</tr>
</tbody>
</table>

**Graph:**  
- Log: Isometric  
- Py: Pyrite  
- Hem: Hematite  
- Bld: Biotite  
- Qtz: Quartz  
- Mica: Mica  
- Calc: Calcite  
- Dol: Dolomite  
- Qtz: Quartz  

**Mineralisation:** 
- Fe-S-O (est %):  
- Altered/Metamorphism (est %):  

**Apy Vms Depth**  
- Apy: Apatite  
- Vms: Vesuvite  
- Depth: 277-90  

**Drill:** MPH-233  
**Commenced:** 24/4/77  
**Completed:** 7/6/77  
**Logged by:**  
**Drillers:**  
**Sample Type:** Core 1m intervals  
**Drill Type:** HD2 - ESP
## Geologic Description

**From** 2740 3850 (cont.)

**Graph** Carbonaceous slate. Black graphite.

**Mineralisation**

**Alteration/Metamorphism**

### Table

<table>
<thead>
<tr>
<th>Depth</th>
<th>Apy</th>
<th>Vns</th>
<th>Depth</th>
<th>Struc</th>
<th>a</th>
<th>b</th>
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<tbody>
<tr>
<td>3213.20</td>
<td>3224</td>
<td>Carbonate</td>
<td>30</td>
<td>33.6</td>
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<td>3293.20</td>
<td>324</td>
<td>Carbonate</td>
<td>30</td>
<td>33.6</td>
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<td>3283.20</td>
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<td>3273.60</td>
<td>332.60</td>
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<td>30</td>
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<td>325.80</td>
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<td>324.30</td>
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<td>32.4</td>
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<td>330.30</td>
<td>330.30</td>
<td>Carbonate</td>
<td>18</td>
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</table>

**From** 3346.60

Chlorite, chlorite, Bt, Intersets with

- Chlorite, chlorite, Bt, Intersets with
- Chlorite, chlorite, Bt, Intersets with
- Chlorite, chlorite, Bt, Intersets with
- Chlorite, chlorite, Bt, Intersets with
- Chlorite, chlorite, Bt, Intersets with
EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

Drill Hole: MDHB - 233
Tenement: ECL 116
Prospect: Mt. Talbot
Map Ref: 5270
Hole Surv - Depth/Inch/Azim: 3,844m 1-56 1 280

Graph
Mineralisation
Fe-S-O (test %)
Alteration/Metamorphism (est %)
Apy Vns Depth Struc α β

Mineral Description
Cocktail and decomposed glauconite, glossy, dark green crystals to 3mm of Actinolite.
Possible chalcopyrite up to 2mm.
Fine-grained green hematite consist of chlorite + fine-grained amphibole.
Some, dark grey green hematite
 espect fine-grained Talc / Chlorite.

From To Geological Description
3844 3970 (cm) 1 and decomposed glauconite, glossy, dark green crystals to 3mm of Actinolite.
Possible chalcopyrite up to 2mm.
Fine-grained green hematite consist of chlorite + fine-grained amphibole.
Some, dark grey green hematite
 espect fine-grained Talc / Chlorite.

3970 4000 3cm thick band on the edges of some chert nodules. Hematite wraps around chert nodules that show some po + more rarely, CPY flakes to 1mm within.
Also occurs as more rounded, crumbled, to less on the edges of some chert nodules. Chert also occurs in some hematite in places of 3403 cm
Clay lattice 3cm wide has a medium grained, po well developed of actinolite + rare pyrite. Hand 343cm 069
Chert nodules have less shape were difficult to outline, but the crack by dark green wembe etch in also a pale olive grey, super accurate with flank reaction rims. Fig: accurate actinolite.
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph Log</th>
<th>Mineralisation Fe-O (wt %)</th>
<th>Alteration/Metamorphism</th>
<th>Apy</th>
<th>Vns</th>
<th>Depth</th>
<th>Struc</th>
<th>α</th>
<th>L</th>
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<tbody>
<tr>
<td>33580</td>
<td>38440</td>
<td>(km)</td>
<td>ty on host brick</td>
<td>354</td>
<td>23</td>
<td>940</td>
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<td>dark brown 75% grey chert</td>
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<td>extends from outer core within sand</td>
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<td>thin creamy oolite 346.7 - 349</td>
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<td>some composed of pale grey chert</td>
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<td>with patchy yellow from deposits to 2mm</td>
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<td>and large nodules of dark grey green</td>
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<td>almost perfectly foliated opal</td>
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<td>calcite dolomite 348.3</td>
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<td>+ Core ORIENTATED from 3478 - 352.3 fm</td>
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<td>Similar cleat mineral from 351.4 - 355.5</td>
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<td>Top 1/2 m calcite occurs as sparse veins</td>
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<td>to 11 cm at 90.74A.</td>
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<td>Oriented 354 190/90.</td>
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<td>From 380.3 - 382 rich in dark gray</td>
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<td>more mosaic + red again with calcite</td>
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<td>v-prism chert + dolomite - 382 - 383.6 pale</td>
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<td>grey chert mineral + actinolite + quartz</td>
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<td>From 385.5 rich becomes well laminated</td>
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<td>once more. + Core ORIENTATED from 372 -</td>
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<td>399.6 from 372 - 373.5 core in</td>
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<td>dark grey - black, calcite medium +</td>
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<td>quartz. At 372.0 gal + calcite vein</td>
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<td>Shear zone, thin in same orientation as bedding</td>
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<td>Graphite beds show movement along So.</td>
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<td>From</td>
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<td>Geological Description</td>
<td>Graph Log Depth</td>
<td>Mineralisation</td>
<td>Alteration/Metamorphism</td>
<td>Apy</td>
<td>Vms</td>
<td>Struct</td>
<td>α</td>
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<tr>
<td>33680</td>
<td>39980</td>
<td>(cont) Oriented core at 37°5 S.</td>
<td>395.50</td>
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<td>So = 210/175.  at 384.30  so = 200/90</td>
<td>384.30</td>
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<td>From 387.7 - 391.7 core is again</td>
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<td>Dash grey carbonaceous with weather</td>
<td>395.6</td>
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<td>At 395.6 oriented core so = 190/75V</td>
<td>395.6</td>
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<td>pH 395 see Calcite vein to ½ width</td>
<td>395.6</td>
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<td>Bedding and schists breccia</td>
<td>395.6</td>
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<td>From 395.6 get mineralised calcite vein with graphic schists. So thin calcite veins are 1.96 TDA</td>
<td>395.6</td>
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<td>Some calcite veins have Galena Schists.</td>
<td>395.6</td>
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<td>Main Chalcopyrite + Pyrite + famesian</td>
<td>395.6</td>
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<td>Dash from 398.8 to end of interval.</td>
<td>398.8</td>
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<td>Get intense mottled brecciated calcite</td>
<td>395.6</td>
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<td>Calcite breccia also chalcopyrite bottom 90 cm of interval Calcite in mottled graph with some grey calcite veins resemble a mottled faulted contact.</td>
<td>395.6</td>
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<tr>
<td>37440</td>
<td>40170</td>
<td>Madstone: Dark grey, v-fine grained mostly massive, some patchy veined.</td>
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<td></td>
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<td>Torbernite fluorite, sheet.</td>
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<td>Cassiterite spotty to fine, some chert.</td>
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<tr>
<td>From</td>
<td>To</td>
<td>Geological Description</td>
<td>Graph Log</td>
<td>Mineralisation Fe-S-O (wt %)</td>
<td>Alteration/Metamorphism (wt %)</td>
<td>Appy Vms &amp; clin</td>
<td>Depth</td>
<td>Struc</td>
<td>α</td>
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<tr>
<td>3970</td>
<td>4060</td>
<td>Chert nodules to 3cm at, 403.4 m</td>
<td>37.12</td>
<td>301</td>
<td>40</td>
<td>400</td>
<td>15</td>
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<tr>
<td>4060</td>
<td>4070</td>
<td>Chloritic cherty biotite mudstone. This is a mixed interbed of dark grey biotite</td>
<td></td>
<td>4020</td>
<td>90</td>
<td>4000</td>
<td>1500</td>
<td>20</td>
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<td>with grey granitic laminated mudstone. Some pyrite in laminated portion.</td>
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<td>4020</td>
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<tr>
<td>4100</td>
<td>4130</td>
<td>Mudstone/Siltstone, dark grey fine grain, massively bedded. Some pyrite shows some</td>
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<td>400</td>
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<tr>
<td>4130</td>
<td>4140</td>
<td>chert nodules, 413.0 m</td>
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<td>401</td>
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**EXPLORERMIN PTY LTD - DIAMOND DRILL HOLE LOG**

- **Drill Hole:** APEC 233
- **Tenement:** FMD 233
- **Prospect:** APEC 233
- **Map Ref.:** FMD 233
- **Hole Surv.:** Depth/Incl/Azin
- **Commenced:** 19/4/97
- **Completed:** 7/5/97
- **Logged by:** S. II
- **Drillers:** CANADIAN DUGgies

**Table:**

- **From:** 3970
- **To:** 4060
- **Geological Description:** Chert nodules to 3cm at, 403.4 m
- **Mineralisation Fe-S-O (wt %):** 37.12
- **Alteration/Metamorphism (wt %):** 301
- **Appy Vms & clin:** 40
- **Depth:** 400
- **Struc:** 15

**Diagram:**

- **Graph Log:** 37.12
- **Mineralisation Fe-S-O (wt %):** 301
- **Alteration/Metamorphism (wt %):** 40
- **Appy Vms & clin:** 40
- **Depth:** 400
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<th>Graph Log</th>
<th>Mineralisation Fe-S-O (est %)</th>
<th>Alteration/Metamorphism (est %)</th>
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<td>(cont) Var v. weakly chloritic, nucleated laminated intervals. Sand on floor 440.8 - 442.5; core oriented from 441.1 &amp; 448.36, core cut at 452.5</td>
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<td>Marlclay, pale grey, medium grained calcarenite w ith ~ 40% interbeds</td>
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<td>Marlclay, pale grey, very fine grained, var v. weakly chloritic, sand on floor 476.5 - 478.10 &amp; marl clays, oriented from 476.70 &amp; 478.40; core oriented from 476.90 &amp; 478.50; core cut at 478.10</td>
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<td>Chlorite, chlorite BIF, dark green, fine grained, well laminated with pale grey, sand on floor 577.5 - 581.60 &amp; marl clays, oriented from 577.60 &amp; 581.70; core oriented from 577.70 &amp; 581.80; core cut at 581.80</td>
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<td>(1007) Pyrrhotite is abundant &amp; occurs as lamellae. Pentalite occurs in rare patches in hematite. Chalsocite also occurs in minor patches. Some chalembite are crushed &amp; not readily thin section. Green glassy, accreted actinolite occurs in patches with paler green clinoids. Crystals sometimes have along the edge of some chalcedony that laminae to thin a composolite green fog digested &amp; unidentifiable. Possible pseudomorph to thin black lamina. 4 core averaged 473.1 - 477.5 &amp; Qubatania, available.</td>
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### Mineralisation

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### Aphy Vugs Depth Struc α β

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EOH
# EXPLOREMIN PTY LTD
## CORE RECOVERY, RQD, FRACTURE COUNT

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<th>No of Weakly Healed Fractures</th>
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**Drill Hole:** MPD1-233  **Amo/Grid E:** 1034.7  **Azimuth:** 272.5°  **Commenced:** 19/4/97  **Logged by:** S.A.  **Veterinarian:** J.G.  **Prospect:** NCH  **RL Collar:** 498.6  **Total Depth:** 487.1  **Hole Size:** ND  **Completed:** 7/5/97

**Tenement:** BRL 116  **Amo/Grid N:** 1066.3  **Inclination:** -65°  **Completed:** 7/5/97  **Logged by:** S.A.
## Core Recovery, RQD, Fracture Count

**Drill Hole:** MDH-235  
**Tenement:** EDR 116  
**Prospect:** MT PORTER

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## EXPLOREMIN PTY LTD
### CORE RECOVERY, RQD, FRACTURE COUNT

**Drill Hole:** MPDH - 233  
**Tenement:** E22L - 116  
**Prospect:** MT #320-701  

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Completed: 7/5/97  
Logged by: S.O.  
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EXPLOREMIN PTY LTD
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### EXPLORMIN PTY LTD
CORE RECOVERY, RQD, FRACTURE COUNT

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<th>From</th>
<th>To</th>
<th>Interval</th>
<th>Recov'd</th>
<th>Length in Sticks &gt;10 cm</th>
<th>No of Open Fractures</th>
<th>No of Strongly Healed Fractures</th>
<th>No of Weakly Healed Fractures</th>
<th>No of open Fractures with slick coat</th>
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EXPLOR MIN PTY LTD - DIAMOND DRILL HOLE LOG

Drill Hole: MDPH - 233  Azimuth: 222.5°  XMMG  Commenced: 19/4/97  Sheet: 1 of 5
Prospect: MT PORTER  Total Depth: -65m  Drills: CAKEN
Map Ref: The Cluster  5290  Hole Size: N1  Sample Type: Float 1m intervals  Drill Type: UDK 850
Hole Surv - Depth INC/LN/AZIM  Casing: 6km  Hole 1 - 66 1 - 75m  1 - 65 1 - 75m  2 - 72.5°

<table>
<thead>
<tr>
<th>From</th>
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<tbody>
<tr>
<td>66.10</td>
<td>73.80</td>
<td>Silstone - Carbonaceous Silstone - Grey - dark grey, fine grained, laminated</td>
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<td></td>
<td></td>
<td>interbedded with banded mucks of sand and grey, weakly carbonaceous silts but not</td>
</tr>
<tr>
<td></td>
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<td>darker than grey and carbonaceous silts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bank consists of laminar, banded thick, parallel to bedding. At 76m silts and</td>
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<tr>
<td></td>
<td></td>
<td>carbonates become fine grained filings.</td>
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<td>At 79.6 see 40cm zone of dolomite - Fg.</td>
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<td>Areal view revealed quartz, feldspar plagiogr.</td>
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<td>Beach, feldspar. Plagiogr. and micas with muscovite.</td>
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<td>72.5 - 73.8 see possible carbonates and quartz - albite - chaledonic.</td>
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<tr>
<td>73.80</td>
<td>81.80</td>
<td>Carbonaceous Silstone - Dark grey - black, fine grained well laminated and</td>
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<tr>
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<td></td>
<td>carbonatic. From ~76cm Pyrite + pyrrhotite occurs and laminar, in several intervals,</td>
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<td></td>
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<td>in laminar, that is regarded as bedding,</td>
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<td>Stealer occurs with Andalusite, carbonat.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to low occur scattered heterogeneously and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>go spread, throughout interval,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>'Albite needles' with some habit as</td>
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<tr>
<td></td>
<td></td>
<td>Andalusite which is occur They have c - cross</td>
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<tr>
<td></td>
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<td>Sections are probably carbon replaced</td>
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<td>Andalusite crystals - Some minor Sulfur calcite</td>
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EXPOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

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<tr>
<td>13.00</td>
<td>21.80</td>
<td>(3.80m) tillite, rare vein and disseminated iron pyrites, 0.29m, 30m. At 29.9m, 2.5m. Apitite, pegmatite, mixed.</td>
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Mineralisation

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<td>Fe-Si-O (est %)</td>
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Alteration/Metamorphism

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Alteration/Metamorphism

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Alteration/Metamorphism
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<td>Chlorite, low-grade structure. Sillite, chlorite, pink pelophy covering.</td>
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<td>246-248</td>
<td>Shiny, bright, pink pelophy covering.</td>
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<tr>
<td>248-250</td>
<td>Sharp, bright, pink pelophy covering.</td>
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<tr>
<td>250-252</td>
<td>Sharp, bright, pink pelophy covering.</td>
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**Graph**

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**Mineralisation**

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**Alteration/Metamorphism**

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**Notes**

- Pole: 255.6° - 286.7°
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<td>highly carbonated, and brecciated core;</td>
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<td>phylitic schist with veinlets of phylite; tectonic veins, carbonatite;</td>
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<td>quartz veins and carbonatite breccia;</td>
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<td>massive, brecciated and carbonaceous, with</td>
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<td>a bottom layer of carbonated, tectonic veins;</td>
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<td>of dolerite appear metasedimentary with</td>
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<td>261.5 dolerite looks more mafic</td>
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<td>and slightly softer, with</td>
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<td>pale, quartz veins to</td>
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<td>2cm thick; fine-grained</td>
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<td></td>
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<td>dolerite, and mafic, some with</td>
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<tr>
<td></td>
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<td>calcite alteration present.</td>
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Fe-S-O (est %) | Cbl | Sil | Lew | Chl | Py | Hap | Myg | Bl | Ser | Asm | Ort | Cord |
11.5 | 18.5 | 2.5 | 1.5 | 0.5 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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<th>Struc</th>
<th>α</th>
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# EXPLOREMIN PTY LTD
## CORE RECOVERY, RQD, FRACTURE COUNT

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<th>From</th>
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<th>Interval</th>
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<th>Length in Sticks</th>
<th>No of Open Fractures</th>
<th>No of Strongly Healed Fractures</th>
<th>No of Weakly Healed Fractures</th>
<th>No of open Fractures with stick coat</th>
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Report Code: AC 30298

Samples Received: 14/01/97
Number of Samples: 50

Homestake Gold of Australia Ltd.
P.O.Box 7780 Cloisters Sq.
Perth WA 6000

Assaycorp Pty Ltd
A.C.R. B92 W92 U11
11th Ward St
Pine Creek NT 0847
Ph (08) 8978 1252
Fax (08) 8978 1310

Reference: 15966
Project: J.Goulavitch
Cost Code:

Sample Preparation:

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Sample Code: AC 30298

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Method | FA50 | FA50 | G300A |

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Method FA50 FA50 6300A
ASSAYCORP

Report Code: .......... AC 35925
Sample Received: ......... 30/04/97
Number of Samples: ............ 33

Homestake Gold of Australia Ltd.
P.O.Box 1943 Cielsteno Sq.
North WA 6660

Reference: ................. 13849
Project: ......................
Cost Code: .....................

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Report Comment: This cover sheet is an integral part of the report. This report can only be reproduced in full.

Authorisation: Ray Woodbridge
Report Dated: 23/04/97
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Method: FA50 FA50 G300A
APPENDIX III
**EXPLOREMIN PTY LTD - DRILL HOLE LOG**

**Drill Hole:** HPCL-234  
**Tenement:** EPL-116  
**Prospect:** Mt Porter  
**RL Collar:**  
**Client:** Homestake

- **AMG/Grid E:** 9837,4  
- **AMG/Grid N:** 1195,3  
- **Azimuth:** 238°  
- **Inclination:** -80°  
- **Commenced:** 9/3/1997  
- **Completed:** 10/15/1997  
- **Total Depth:** 60m  
- **Hole Size:** 4-1/2"  
- **Casing:** 6m poly  
- **Sample Type:** RC, 2m composite  
- **Drill Type:** UMD-650

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**Comments:**  
- Some minor quartz chips  
- Some carbonstone chips  
- 90% Quartz, 10% Silica.
**EXPLOREMINE PTY LTD - DRILL HOLE LOG**

**Drill Hole:** MP1-234  
**Tenement:** EAL-116  
**Prospect:** Mt Aftet  
**RL Collar:**  
**Map Ref:**  
**Client:** Homestake  
**Commenced:** 9/5/97  
**Completed:** 10/5/97  
**Hole Size:** 4  
**Casing:** 6m poly  
**Sample Type:** 1m composite  

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**Sheet:** 2 of 3  
**Logged by:** S.O.  
**Drillers:** C.A.D.  
**Drill Type:** GMD-650/590
### EXPLORMIN Pty Ltd - Drill Hole Log

- **Drill Hole:** MML-234
- **Tenement:** BML-116
- **Prospect:** Mt. Wather
- **Map Ref.:** Pink Creek 5270

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- **E.O.H.**

- **Total Depth:** 60m
- **Casing:** 6m poly
- **Azimuth:** 238°
- **Inclination:** -80°
- **Commenced:** 9/5/97
- **Completed:** 10/5/97
- **Hole Size:** 4 1/2"
- **Sample Type:** RC 2m composite

- **Logged by:** S.A.
- **Drillers:** GAEW
- **Drill Type:** UDR-650

---

**Notes:**
- 30m - 78° Dip.
- 60m - 77° Dip.
ASSAYCORP

Report Code: .............. AC 36253
Sample Received: .............. 31/05/97
Number of Samples: .............. 30

Homestake Gold of Australia Ltd.
P.O.Box 7130 Claisebrook Sq.
Perth WA 6850

Reference: .............. 19854
Project: ..............
Cost Code: ..............

ASSAYCORP Pty Ltd
A.C.R. 082 922 811
174 Ward St
Pine Creek NT 0847
Ph (08) 8976 1302
Fax (08) 8976 1310

Report Distribution
J. Goulavitch
J. Stewart

Page 1 of 3

Sample Preparation:

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<th>Digest</th>
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Report Comment: This cover sheet is an integral part of the report. This report can only be reproduced in full
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Method: FA50  FA50  G300A
APPENDIX IV
## Drill Hole Log

**Drill Hole:** MPDN-235  
**AMG/Grid E:** 103421  
**AMG/Grid N:** 104648  
**Azimuth:** 272°  
**Inclination:** -70°  
**Commenced:** 11/5/97  
**Completed:** 17/5/97  
**Total Depth:** 90m pre-collar  
**Hole Size:** 4/4  
**Sample Type:** RC  
**Sheet:** 1 of 4  
**Logged by:** S.O.  
**Drillers:** CANON  
**Drill Type:** CDP-650

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**EXPOREMIND PTY LTD - DRILL HOLE LOG**

Drill Hole: *MWB-235*
Tenement: *EAC-116*
AMG/Grid E: *10342.1*
AMG/Grid N: *10464.8*
Azimuth: *272°*
Inclination: *-10°*
Commenced: *11/5/97*
Completed: *17/5/97*
Prospect: *Mount Fishers*
RL Collar: *Homescape*
Total Depth: *90m covered*
Casing: *6m poly*
Hole Size: *4½"
Sample Type: *NC*
Sheet: *2 of 4*
Logged by: *5-2*
Drillers: *Caden*
Drill Type: *U32-630*
### EXPLOREMIN PTY LTD - DRILL HOLE LOG

**Drill Hole:** NPDH-235
**Tenement:** CDL-116
**Prospect:** MOUNT PORTER
**Map Ref:** Ani Creek S270

**AMG/Grid E:** 1034421
**AMG/Grid N:** 1046498
**RL Collar:** HOMESTAKE
**Client:** Homestake

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**Azimuth:** 222° **A’MIG**
**Inclination:** 70°
**Total Depth:** 5446 m
**Casing:** 6m Poly

**Commenced:** 11/5/97
**Completed:** 7/5/97
**Hole Size:** 4.5"
**Sample Type:** RC

Logged by: S G
Drillers: CAPEW

Drill Type: LMD-650
# EXPLOREMIN Pty Ltd - Drill Hole Log

**Drill Hole:** MROH-235  
**Tenement:** EML 46  
**Prospect:** Mount Poona  
**AMG/Grid E:** 102.3 420.1  
**AMG/Grid N:** 104.6 64.8  
**Azimuth:** 272°  
**Inclination:** -70°  
**Commenced:** 11/5/97  
**Completed:** 17/5/97  
**Total Depth:** 90m  
**Hole Size:** 3.5"  
**Casing:** 6m  
**Client:** Amestance  
**Loggers:** W.A.  
**Drillers:** Caden  
**Drill Type:** U02-650

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END Rc Core NR
**EXPLORMIN PTY LTD - DIAMOND DRILL HOLE LOG**

- **Drill Hole:** M6DH-235
- **Tentative:** E67-16
- **Prospect:** MOUNT POOPER
- **Map Ref:** MOUNT POOPER
- **Hole Surv - Depth/incl/Azim:** 0m 1-68 1 - 30m 1-68 1 - 60m 1-71 1 - 90m 1-74 1 -
- **Client:** Homestake

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph Log</th>
<th>Mineralisation Fe-S-O (est %)</th>
<th>Alteration/Metamorphism (est %)</th>
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<tbody>
<tr>
<td>0.00</td>
<td>13.50</td>
<td>Carbonaceous Siltstone, dark grey, black, fine-grained, graphitic, white, andesitic tuffs, to 2m thick. Structure in white with thin fractures.</td>
<td>B</td>
<td>5%</td>
<td>4:1</td>
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<td>13.50</td>
<td>21.20</td>
<td>Carbonaceous Siltstone, dark grey, black, fine-grained, graphitic, white, andesitic tuffs, to 2m thick. Structure in white with thin fractures.</td>
<td>B</td>
<td>5%</td>
<td>4:1</td>
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**Notes:**
- Black, fine-grained, graphitic, white, andesitic tuffs, to 2m thick. Structure in white with thin fractures.
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph Log</th>
<th>Mineralisation (Fe-SiO₂ (est %))</th>
<th>Alteration/Metamorphism (est %)</th>
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<tr>
<td>90.00</td>
<td>135.00</td>
<td>(24.5) oo phylctite with tuffaceous fillings. Fossils are oriented from 115.3 - 117.4' E. Oriented core at 17m. S = 135/38W.</td>
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<tr>
<td>135.00</td>
<td>167.20</td>
<td>Dolerite. Dark olivit green, medium grained, craguline, massive. 17m. Oriented core at 17m. S = 135/38W.</td>
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<tr>
<td>167.20</td>
<td>183.30</td>
<td>Carbonaceous Substrate. Dark grey-bluish.fine grained, medium to coarse-grained. Alteration from fossil fibre is that it lacks the manganese, sulphide, vein/fillings. 50% numerically black Carbon.</td>
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**Notes:**
- Fossils are oriented from 115.3 - 117.4' E.
- Oriented core at 17m. S = 135/38W.
- Dolerite: Dark olivit green, medium grained, craguline, massive.
- Carbonaceous Substrate: Dark grey-bluish, fine grained, medium to coarse-grained.
**EXPOREMIN PTY LTD - DIAMOND DRILL HOLE LOG**

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<th>Alteration/Metamorphism (wt %)</th>
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<td>(cont) Patau contact conformable with</td>
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<td>Footing top hole. Bottom 3m of mineral</td>
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<td>Start to see minor quartz± chlorite veins</td>
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**HOLE TERRAINISED DUE TO RADICAL DEVIATION IN REQUIRED DIP.**
# EXPLOREMIN PTY LTD

**CORE RECOVERY, RQD, FRACTURE COUNT**

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| ASSAY CODE: AC 36260 |

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**Mineralisation**

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<th>Veg</th>
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**Note:** No RC Log for MPDH-236 kept.
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| 0m   | 150m| Rough breccia zone at 84.5m.
|      |     | 85.0m Renovated breccia zone at 85.3m. |
|      |     | 86.0m Contact diorite diorite foliation. |
|      |     | 87.0m Croom affect breccia clay. |
|      |     | Core is disturbed from 88.5m to 112.5m. |
|      |     | S0 = 185°/38 W. At 114.0m. |
|      |     | Sam. quartz + sulphides vein cuts bedding with no displacement. S0 = 185°/38 W. |
|      |     | Main Ponds 270/275. |
|      |     | Cored pink sandstone. |
| 0m   |     | 91.50. |
|      |     | 91.90. |
|      |     | 92.30. |
|      |     | 92.70. |
|      |     | 93.10. |
|      |     | 93.50. |
|      |     | 94.00. |
|      |     | 94.50. |

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EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

Drill Hole: MPD 236
Tenement: EM311
Prospect: MOUNT PANTHER
Map Ref: DISEY CREEK 570
Hole Surv - Depth/Incl/Asm: 133m 170.5 1.269°

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Notes:
- Calcite: 0.04 - 0.06 m 185.4 - 187.4°
- Bedding still visible at 185.5 ± 185.4°
- At 185.5 ± 185.4°: 0.02 m 185.4-191°
- Gneiss or very fine-grained discordant bedding with recrystallised pink quartz.
<table>
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| 184.90 | 214.40 | (cont.) From 245 to 246.50 sec. visible. Sam thick po very well preserved overall. At 249.15m, At 248.55m, Sec. Arg ill. 15m further down. At 248.30m Sec. Arg ill. Blank to show. Sam. Calc.
<p>| 264.5  | Fe     | 65 SE, 3m of interbedded calc-silicate to pyroxene at base. At 270.57m. Sam. Laminated to thin layers. hosted in nodular shape in phan. Dolerite interbed and calc-silicate showing. | 264.5     | 246.0 D 47 3.50 0.50          |                                | 214.0  | 32 130 190 |
| 271.90 | 271.40 | Dolerite Contact bedding conformable. Dach and green fine grained chilled margin. 1m to 3m. Sec. Sam. Calcsilicate veins. Bottom Contact is sharp/sulfur bounded. No bottom drill margin or shear. Dolerite incomplete. Bottom faulted out. | 271.90    | 472.8 D 50 26 0.00            |                                | 271.40 | 47 130 280 |</p>
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### Alteration/Metamorphism

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### Notes

- Shear in pyrrhotite, goethite 040/50 SE
- No significant alteration beyond shear
- Dolomite, top contact conformable, gray, thin, chlorite, porphyritic
- Charingbildung, possible fault breccia.
## EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

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<th>Graph Log</th>
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<td>(cont) quartz -? post chilled margin</td>
<td>![Graph Image]</td>
<td>![Fe-S-O Graph]</td>
<td>![Alteration Graph]</td>
<td>![Apy Vms Graph]</td>
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### Notes
- Azimuth: 275.5°
- Inclination: -68°
- Total Depth: 496.2m
- Casing: 46m
- Hole Size: N.A.
- Completed: 21/6/97
- Logged by: S.O.
- Client: Homestake
- Drill Type: MNC-650D
- Sheet: 7 of 8

### Drilling Details
- Tenement: 391-16
- Prospect: Mount Apollo
- Hole Surv.: Depth/Incl/azim: 245m/1-67/1-28°
**EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG**

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**Geological Description**

From 380.3-442, core cut off at 327m 15°7'N.

From 440.3-442, core cut off at 327m 15°7'N.

Red clay, medium grained sandstone, poor quality core.

Red cut off at 218m 15°7'N.

Red cut off at 218m 15°7'N.

End of core cut off at 185m 15°7'N.

Core signed MPDN-236W.
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### EXPLOREMIN PTY LTD
**CORE RECOVERY, RQD, FRACTURE COUNT**

- **Drill Hole:** MPOH - 236
- **Tenement:** ERL - 116
- **Prospect:** Mount Porter
- **AMG/Grid E:** 10339
- **AMG/Grid N:** 10464
- **Azimuth:** 272.5
- **Inclination:** -68
- **Commenced:** 19-5-97
- **Completed:** 21-6-97
- **Total Depth:** 496.20
- **Hole Size:** NQ
- **Logged by:** SM
- **Sheet:** 6 of 6
- **Drillers:** CHIRPY

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**EXPLORERMIN Pty Ltd - Diamond Drill Hole Log**

**Drill Hole:** MDPH-236W  
**Tenement:** EKLU-116  
**Prospect:** MOUNT PORTER  
**Map Ref:** RIC CREEK 5220  
**Hole Survs - Depth/incl/Azim:** 185m-1-70° - 191m-1-67° - 197m-1-68° - 203m-1-68°

### Geological Description

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<td>Dark grey, fine grained, weakly laminated, possibly karstified, contains thin layers of nodules and nodules of iron oxide.</td>
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<td>Thin lens of disseminated sulphides.</td>
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<td>Transition zone: Same mineralogy as above, but with more quartz and pyrite.</td>
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<td>Vein-like, parallel to bedding, possibly related to faulting.</td>
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<td>Occurs as a breccia, parallel to laminar to 2mm.</td>
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<td>Cross-cutting veins to 2mm.</td>
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<td>Veins filled with quartz and pyrite.</td>
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<td>Veins filled with quartz and pyrite.</td>
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<td>Veins filled with quartz and pyrite.</td>
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### Mineralisation

- **Fe-S-O (est %):** 2%
- **Graphite:** 1.4%
- **Pebbles:** 0.6%
- **Sand:** 0.6%
- **Clay:** 0.6%

### Alteration/Metamorphism

- **Fe:** 5%
- **Si:** 2%
- **Mg:** 2%
- **Ca:** 2%
- **Na:** 2%
- **K:** 2%
- **Cl:** 2%
- **H:** 2%

### Additional Notes

- **Mineral:** Sphalerite, Pyrite, Chalcopyrite, Galena
- **Structure:** East-West trend
- **Drillers:** GABLE (Skippy)
- **Drill Type:** MDPH-236W
- **Casing:** 220m to 185m
- **Sample Type:** 1.0m intervals

**Sheet:** 1 of 1

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*Note: Wedge terminated on dip of hole. Fails to rise to known shallower.*
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Method: FA50 FA50 0300A
APPENDIX VI
## EXPLORMIN PTY LTD - DRILL HOLE LOG

**Drill Hole:** APMH 237  
**AMG/Grid E:** 9958.7  
**Azimuth:** 242.5 TMS  
**Commenced:** 7/4/77  
**Sheet:** 1 of 5

**Tenement:** EAL 16  
**AMG/Grid N:** 11205.3  
**Inclination:** -65  
**Completed:**  
**Logged by:**  
**Prospect:** Mt Foster  
**Total Depth:** 667 ft

**RL Collar:** 513.479  
**Hole Size:** 2 1/2"  
**Drillers:**  
**Map Ref:** Pine Creek 5270  
**Casing:** 6m Pby  
**Sample Type:** RC  
**Drill Type:** VTR - 650

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**Sheet:** 2 of 5
**Logged by:** MARA L. CARR
**Drillers:** CROWN
**Drill Type:** VDR-650
## EXPLOREMINT Pty Ltd - Drill Hole Log

**Drill Hole:** APDN 237  
**Tenement:** ERL 156  
**Prospect:** Mt Pilot  
**Map Ref:** Pine Creek 5270  
**Client:** Homestake  

**AMG/Grid E:** 99589  
**AMG/Grid N:** 112653  
**Azimuth:** 242°  
**Inclination:** -65°  
**Commenced:** 7/6/97  
**Completed:**  
**Total Depth:** 60m Pre Collar  
**Casing:** 6m Pvc  
**Hole Size:** 4½"  
**Sample Type:** RC  

**Logged by:** Shane W. O'Connor  
**Drillers:** C.A. Foskett  
**Drill Type:** UDR-650

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<td></td>
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<td>fossils demonstrated in lunomix. only some</td>
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<td>pods. Inland presence works - V Paly</td>
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<td></td>
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<td>grey hard laminated to 2mm thick. Thin</td>
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<td></td>
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<td>chert breccia, some chert breccia breccia</td>
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<td>deepening seams rounded chert breccia</td>
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<td>+ Top is overlain at least 165m - 175m</td>
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<td></td>
<td></td>
<td>Contorted bedding at 174.3 + curved</td>
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<td></td>
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<td>one bit and sp internal</td>
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**EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG**

<table>
<thead>
<tr>
<th>Drill Hole:</th>
<th>MDPT 233</th>
<th>AMG/Grid E:</th>
<th>549587.7</th>
<th>Azimuth: 242.5°</th>
<th>JNMB</th>
<th>Commenced: 9/16/97</th>
<th>Sheet: 3 of 10</th>
<th>Logged by: 5</th>
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</thead>
<tbody>
<tr>
<td>Tenement:</td>
<td>CALL 186</td>
<td>AMG/Grid N:</td>
<td>112635.3</td>
<td>Inclination: -65</td>
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<td>Completed: 26/6/97</td>
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<tr>
<td>Prospect:</td>
<td>MOUNT ROBERT</td>
<td>RL Collar:</td>
<td>513.649</td>
<td>Total Depth: 414.20m</td>
<td></td>
<td>Hole Size: ND</td>
<td>Driller: PAH</td>
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<tr>
<td>Map Ref:</td>
<td>PINE GULL 5220</td>
<td>Client:</td>
<td>HomeSteel</td>
<td>Casing: 60m</td>
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<td>Hole Surveys: Depth/Incl/Azim</td>
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<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph</th>
<th>Mineralisation</th>
<th>Alteration/Metamorphism</th>
<th>Apy</th>
<th>Vns</th>
<th>Depth</th>
<th>Stuc</th>
</tr>
</thead>
<tbody>
<tr>
<td>181.50</td>
<td>188.80</td>
<td>Carbonaceous Coaltime, Black, fine</td>
<td>201</td>
<td>Py</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>188.80</td>
<td>195.80</td>
<td>Carbonaceous Siltstone</td>
<td>201</td>
<td>Py</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>195.80</td>
<td>198.80</td>
<td>Sheared Pelite, Dark, middle green</td>
<td>201</td>
<td>Py</td>
<td></td>
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</table>

Note: Graph indicates the type of data recorded, and Mineralisation shows the presence of pyrite ('Py'). Alteration/Metamorphism column is empty. Apy column shows the presence of pyrite, Vns column is blank, Depth column shows depth range, and Stuc column is blank.
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Mineralization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1984</td>
<td>2,030</td>
<td>Pyrrhotite, Carbonaceous Siltstone, dark grey to black, friable, garnet, associated with pyrite and breccia fragments, sparse, broken dolerite, above, defined partially by siltstone, below. Reported by title holder.</td>
<td>Fe 10.98, S 12.83</td>
</tr>
<tr>
<td>2,026</td>
<td>2,030</td>
<td>Dolerite, Hole, Old seam, pitch medium, Tyrolite, north, wates, west, +, +,</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Astrophyllite, green, altered,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chrysoberyl, yellow, altered,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chalcopyrite, green, altered,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calcite, white, altered,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quartz, white, altered,</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alteration/Metamorphism</th>
<th>Apy</th>
<th>Vms</th>
<th>Depth</th>
<th>Struc</th>
<th>a</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fo 85</td>
<td>Fe 10.98</td>
<td>S 12.83</td>
<td>1984</td>
<td>2,030</td>
<td>15</td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Graph</th>
<th>Log</th>
<th>Fe</th>
<th>S</th>
<th>O</th>
<th>(est %)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>10.98</td>
<td>12.83</td>
<td></td>
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<table>
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<tr>
<th>From</th>
<th>To</th>
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<th>Log</th>
<th>Fe</th>
<th>S</th>
<th>O</th>
<th>Alteration/Metamorphism</th>
<th>Apy</th>
<th>Vms</th>
<th>Depth</th>
<th>Struc</th>
<th>a</th>
<th>p</th>
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<tbody>
<tr>
<td>1984</td>
<td>2,030</td>
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**EXPOREMIN PTY LTD - DIAMOND DRILL HOLE LOG**

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph</th>
<th>Mineralisation Fe-SiO (est %)</th>
<th>Alteration/Metamorphism (est %)</th>
<th>Apy. Vnt. %</th>
<th>Depth</th>
<th>Stru.</th>
</tr>
</thead>
<tbody>
<tr>
<td>248.10</td>
<td>248.10</td>
<td>(2017) 22c. f.m. 249.5 20c. f.m. 206, 22c. f.m. 214.41 20c. f.m. 214.65 20c. f.m. 224.13 20c. f.m. 223.40 20c. f.m. 224.40 20c. f.m. 233.3</td>
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<td></td>
</tr>
<tr>
<td>248.10</td>
<td>233.30</td>
<td>Chlorite, Cherty BIF Dark green jet</td>
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</tbody>
</table>

**Notes:**
- True Cpy = 224.5
- Depth = 248.72
- Stru. = 35

**Additional Observations:**
- Rock types include:
  - Green mudstone with pyrite
  - Young chalcopyrite
  - Quartz
d- Green and red mudstone
  - Green claystone
  - Cherty limestone
  - Banded iron formation

**Drilling Details:**
- **Drill Hole:** MDN-237
- **Tenement:** EUL-116
- **Prospect:** MOUNT FERDIE
- **Map Ref:** AU-3219
- **Hole Surv. - Depth/Incl/Azim:** 270m 1 -51 250°

**Logging Information:**
- **Logged by:** S.
- **Logged by:** S.
- **Drillers:** GDEN
- **Drill Type:** MDN-65D
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph Log</th>
<th>Mineralisation Fe+Mg (est %)</th>
<th>Alteration/Metamorphism (est %)</th>
<th>Apy</th>
<th>Vss</th>
<th>Depth</th>
<th>Struc</th>
<th>β</th>
</tr>
</thead>
<tbody>
<tr>
<td>248.10</td>
<td>273.30</td>
<td>(cont) thin shears of pyritic bituminous coal within...</td>
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<td>with bituminous coal and pyritic bituminous...</td>
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<td>253.40: Indexed in all...</td>
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<td>from 254.7 to 257.2 with dark grey...</td>
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<td></td>
<td></td>
<td>with few pyritic bands</td>
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<td>254.7 to 257.2 with dark grey</td>
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<td>257.2 to 273.30 with dark grey</td>
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<tr>
<td>273.30</td>
<td>279.50</td>
<td>Siltstone. Dark grey, fine granular</td>
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<td>with quartz and minor pyrite</td>
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<td>(cont) thin shears of pyritic bituminous coal within...</td>
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<td>with bituminous coal and pyritic bituminous...</td>
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<td>281.20: Indexed in all...</td>
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<td>from 281.30 to 284.7 with dark grey...</td>
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<td>with few pyritic bands</td>
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<td>281.30 to 284.7 with dark grey</td>
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<td>284.7 to 288.0 with dark grey</td>
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</tr>
<tr>
<td>288.0</td>
<td>294.00</td>
<td>Siltstone and siltstone. Dark grey</td>
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<tr>
<td></td>
<td></td>
<td>fine granular, massive pyrite</td>
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</tbody>
</table>

**Note:** The log record details the geological description, mineralisation, alteration/metamorphism, and additional notes for each interval. The data includes specific intervals, geological markers, and metamorphic indicators.
### EXPLOREMIN PTY LTD - DIAMOND DRILL HOLE LOG

**Drill Hole:** MPDH-231  
**AMG/Grid E:** 945849  
**Azimuth:** 242.5  
**Commenced:** 5/1/97  
**Sheet:** 7 of 10  
**Tenement:** E91116  
**AMG/Grid N:** 112653  
**Inclination:** 65  
**Completed:** 26/6/97  
**Logged by:**  
**Prospect:** Map 100  
**RL Collar:** 517679  
**Total Depth:** 414.7m  
**Hole Size:** 1"  
**Map Ref:**  
**Drillers:**  
**Hole Surv.:** Depth/inclin/Azim:  
**Client:** Hancocks North  
**Casing:** 62m  
**Sample Type:** 4" core  
**Drill Type:** U82C

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph Log</th>
<th>Mineralisation Fe-Si-O (est %)</th>
<th>Alteration/Metamorphism</th>
<th>Apy</th>
<th>Vms</th>
<th>Depth</th>
<th>Svr</th>
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</thead>
<tbody>
<tr>
<td>286.80</td>
<td>324.70</td>
<td>(UNIT) Soe, thick laminated sediments, mostly pebbly sands. Some minor vuggy quartz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>314.6</td>
</tr>
<tr>
<td>304.10</td>
<td>328.50</td>
<td>Calcite, Silicate, a chaotic mix of white, pale gray, color and gray, fine grained, chloritic altered and patchy pyrite.</td>
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</tr>
<tr>
<td>328.50</td>
<td>315.10</td>
<td>Siltstone, dark gray, fine grained, medium to fine grained. Some minor vug in places (annulose)</td>
<td></td>
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<tr>
<td>From</td>
<td>To</td>
<td>Geological Description</td>
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</tr>
<tr>
<td>345.40</td>
<td>377.60</td>
<td>Chlorite, chlorite BIF, Dolomite, greenschist.</td>
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<tr>
<td>377.60</td>
<td>384.6</td>
<td>Charnockite, biotite schist, greenschist.</td>
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</tr>
<tr>
<td>384.6</td>
<td>391.9</td>
<td>Charnockite, biotite schist, greenschist.</td>
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**Mineralisation**
- Fe-O (est %)

<table>
<thead>
<tr>
<th>Alteration/Metamorphism</th>
<th>(est %)</th>
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<tbody>
<tr>
<td>Tour</td>
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**Graph**
<table>
<thead>
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<th>Log</th>
<th>Graph</th>
<th>Mineralisation</th>
<th>Alteration/Metamorphism</th>
</tr>
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<tbody>
<tr>
<td></td>
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</tbody>
</table>

**Sheet:** q of 1

**Drill Hole:** MDTH - 239
**Tenement:** 12-11
**Prospect:** Mount Pollock
**Map Ref:** 52 70
**Depth:** 1252 m

**Commenced:** 8/6/97
**Completed:** 26/6/97
**Logged by:** 50
**Drillers:** AGDRW

**Sample Type:** 1/2 CORE
**Drill Type:** 44 - 63
<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Geological Description</th>
<th>Graph Log</th>
<th>Mineralisation Fe-Si-O (est %)</th>
<th>Alteration/Metamorphism (est %)</th>
<th>Apy</th>
<th>Vns</th>
<th>Depth</th>
<th>Struc</th>
<th>β</th>
</tr>
</thead>
<tbody>
<tr>
<td>398.4</td>
<td>398.8</td>
<td>Sillstone. Grey, fri. gneis, wall</td>
<td>2</td>
<td>1.5</td>
<td>2%</td>
<td>10</td>
<td>1.5</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>398.8</td>
<td>414.1</td>
<td>Dolerite. Rep. contact, slight breccia. Black garnet, minor muscovite, kyanite, schist</td>
<td>100</td>
<td>1.5</td>
<td>2%</td>
<td>10</td>
<td>1.5</td>
<td></td>
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</tbody>
</table>

Note: This is the hanging wall section.
### Core Recovery, RQD, Fracture Count

**Drill Hole:** MP04 - 237  
**AMG/Grid E:** 9958.9  
**Azimuth:** 242.5°  
**Commenced:** 8.6.97  
**Tenement:** EAL-16  
**AMG/Grid N:** 11265.3  
**Inclination:** -65°  
**Completed:** 26.6.97  
**Prospect:** Mount Foster  
**RL Collar:** 575.5  
**Total Depth:** 446.2 m  
**Logged by:** Shane Marlow  
**Drilled by:** Gaddes

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CORE RECOVERY, RQD, FRACTURE COUNT

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- **Core loss between 192-9 m**
- **Core loss between 245-2 - 247-2 m**
- **Core loss between 252-2 - 254-6 m**
- **Core loss between 261-1 - 264-1 m**

**Note:** The table provides details of core recovery, RQD, and fracture count for a specific drill hole, including measurements and comments on core loss intervals.
### EXPLOREMIN Pty Ltd
#### Core Recovery, RQD, Fracture Count

**Drill Hole:** MP116-237  |  **AMG/Grid E:** 995879
**Tenement:** E44/16  |  **AMG/Grid N:** 1126531
**Prospect:** Mount Porter  |  **RL Collar:** 3782

**Commenced:** 8.6.97  |  **Sheet:** 4 of 5  
**Completed:** 26.6.97  |  **Hole Size:** NQ  
**Azimuth:** 241.5°  |  **Logged by:** SHAH FAROOQ  
**Inclination:** -65°  |  **Drillers:** GARDEN

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*Core Loss between 314.4 - 315.2m*

*Core Loss between 315.2 - 316m*

*Core Loss between 819 - 820.8m*
**EXPLOREMINE Pty Ltd**  
**Core Recovery, RQD, Fracture Count**

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**Authorization:** Ray Woolridge

**Report Dated:** 23/06/87
### ASSAY CORP

**ASSAY CODE:** AC 36771

#### Page 2 of 3

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#### Method
- FA50
- FA50
- G300A

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### ASSAY CORP

**ASSAY CODE:** AC 36771

#### Page 3 of 3

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#### Method
- FA50
- FA50
- G300A

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Method FA50 FA50 Q300A
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**Report Comment:** This cover sheet is an integral part of the report. This report can only be reproduced in full.

**Assay Code:** AC 37185

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  - Au(R)
  - As

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**Method**

- FA50
- FA50
- G300A
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<tr>
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<td>0.20</td>
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Method: FA50 FA50 G300A

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<tr>
<th>Sample</th>
<th>Au (ppm)</th>
<th>Au(R) (ppm)</th>
<th>As (ppm)</th>
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<tr>
<td>237 355-356</td>
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<tr>
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<td>237 370-371</td>
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Method: FA50 FA50 G300A
<table>
<thead>
<tr>
<th>Sample</th>
<th>Au  (ppm)</th>
<th>Au(N) (ppm)</th>
<th>As  (ppm)</th>
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<tr>
<td>237 403-404</td>
<td>0.06</td>
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</tr>
<tr>
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<tr>
<td>237 409-410</td>
<td>&lt;0.01</td>
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<tr>
<td>237 412-413</td>
<td>0.02</td>
<td></td>
<td>42</td>
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</tbody>
</table>

|            |          |            |           |
| GH12       | 0.02     |             | 520       |
| GH13       | 1.22     | 1.20        | 1540      |
| GH14       | 0.02     |             | 400       |

**Method**  FA50  FA50  G300A