102129

GOLD FIELDS EXPLORATION PTY. LIMITED

# DRILL CORE RECORD

HOLE NO. : HP42
STATE : TAS

DEV. PRESS

| | |
|---|---|
| PROJECT | HENTY |
| DESIGNED BY | R.H. ROBERTS |
| LOGGED BY | R.H. ROBERTS |
| COMMENCED | 24/2/88 |
| COMPLETED | |

**PURPOSE**

To test for a southerly plunge to the Henty gold mineralisation at an R.L. of 2150m and 150m south of HP12.

**LOG SUMMARY / GENERAL COMMENTS**

The hole drilled through hangingwall volcanics until intersecting the Henty Fault Zone at 543.1 metres. The Fault extended from 543.1 to 591.4 metres with a pug zone from 577.6 to 588 metres. Two strongly mineralised zones occur within pyrite-sericite-silica altered footwall volcanics from 591.4 to 619.5m and from 637 to 651m. High-grade intervals within these zones are recorded below. Carbonate alteration occurs with the mineralisation. Carbonate-rich (gold-poor) lenses also occur between the zones.

## ASSAY SUMMARY

| INTERVAL From | INTERVAL To | Au | Ag | Cu | Pb | Zn | As | Bi | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 597 | 608 | 55.8 | 22 | 2534 | 4957 | 2961 | 13 | 44 | | | | | | |
| | | | | | | | | | | | | | | |
| 637 | 642 | 4.6 | 18 | 1090 | 4489 | 3825 | 81 | 16 | | | | | | |
| 645.9 | 649 | 12.5 | 32 | 2650 | 180 | 179 | 117 | 22 | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

## LOCATION

| | |
|---|---|
| NORTHING 53 | 63879.619 |
| EASTING 3 | 79675.096 |
| R.L. | 2656.593 |
| GRID | AMG |
| LENGTH | 692.5M |

## HOLE CONDITION

| SIZE Hole Size | Depth(m) |
|---|---|
| Roller | 0-17m |
| HQ | 17-582.5 |
| NQ | 582.5-692.5 |
| | |
| | |
| | |

| SIGNIFICANT CORE LOSS INTERVALS From | To | % Lost |
|---|---|---|
| 577.6 | 588.0 | 20% |
| | | |
| | | |
| | | |
| | | |
| | | |

| POOR GROUND CONDITION ZONES From | To | Condition |
|---|---|---|
| 437 | 543.1 | Patchy broken ground in hangingwall |
| 543.1 | 591.4 | Henty Fault Zone |
| 591.4 | 602 | Fractured mineralised ground |
| 615 | 619.5 | Broken ground around a footwall fault |
| | | |
| | | |

**HOLE CONDITIONS AFTER COMPLETION**

VAN RUTH Plug placed at 596 metres.
HOLE CEMENTED to 592 metres for the purpose of wedging off a Hall Rowe wedge.
A wooden plug became lodged at 590m, which caused the wedge to be abandoned. Caving was occurring in the fault zone. All NQ recovered.
The HQ casing was cut free and retreived.
HW casing also removed.

## SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

| SURVEY Depth m | SURVEY Bearing AMG | SURVEY Dip | INTERVAL From | INTERVAL To | INTERVAL Distance | VERTICAL D.Sin.Dip | VERTICAL R.L. | HORIZONTAL D.Cos.Dip | HORIZONTAL Prog.Total |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 103.5 | 66.25° | 0 | 12 | 12 | 11.0 | | 4.8 | |
| 23 | 103.0 | 67.75° | 12 | 34 | 22 | 20.4 | | 8.7 | |
| 45 | 101.5 | 67.25° | 34 | 51 | 17 | 15.7 | | 6.6 | |
| 58 | 101.0 | 67.0° | 51 | 77 | 26 | 23.9 | | 10.2 | |
| 97 | 102.0 | 66.75° | 77 | 109 | 32 | 29.4 | | 12.6 | |
| 121 | 102.0 | 66.00 | 109 | 135.0 | 26 | 23.8 | | 10.6 | |
| 148 | 102.5 | 65.75° | 135 | 165 | 30 | 27.4 | | 12.3 | |
| 183 | 102.5 | 65.0 | 165 | 200 | 35 | 31.7 | | 14.8 | |
| 217 | 102.0 | 64.0 | 200 | 232 | 32 | 28.8 | | 14.0 | |
| 247 | 102.0 | 63.0 | 232 | 263 | 31 | 27.6 | | 14.1 | |
| 279 | 102.5 | 62.0 | 263 | 294 | 31 | 27.4 | | 14.6 | |
| 310 | 104.5 | 61.25 | 294 | 326 | 32 | 28.1 | | 15.4 | |

| SURVEY Depth | SURVEY Bearing | SURVEY Dip | INTERVAL From | INTERVAL To | INTERVAL Distance | VERTICAL D.Sin.Dip | VERTICAL R.L. | HORIZONTAL D.Cos.Dip | HORIZONTAL Prog.Total |
|---|---|---|---|---|---|---|---|---|---|
| 342 | 105° | 60° | 326 | 360 | 34 | 29.4 | | 17.0 | |
| 377 | 105° | 59° | 360 | 396 | 36 | 30.9 | | 18.5 | |
| 415 | 106° | 57.75° | 396 | 432 | 36 | 30.4 | | 19.2 | |
| 448 | 106.5° | 56° | 432 | 464 | 32 | 26.5 | | 17.9 | |
| 480 | 107.0 | 55° | 464 | 506 | 42 | 34.4 | | 24.1 | |
| 532 | 108.5 | 52½ | 506 | 546 | 40 | 31.7 | | 24.4 | |
| 559 | 108° | 52 | 546 | 580 | 34 | 26.8 | | 20.9 | |
| 601 | 109.0 | 51.25 | 580 | 616 | 36 | 28.1 | | 22.5 | |
| 631 | 108.0 | 50° | 616 | 646 | 30 | 23.0 | | 19.3 | |
| 661 | 107.5 | 48.50 | 646 | 676 | 30 | 22.5 | | 19.9 | |
| 691 | 107.0 | 47.50 | 676 | 692.5 | 16.5 | 12,2 | | 11.1 | |
| E.O.H. = 692.5M | | | | | | | | | |

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PROJECT: HENTY

# DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP42



| INTERVAL From | INTERVAL To | RECOVERY m | RECOVERY % | DESCRIPTION |
|---|---|---|---|---|
| 17 | 20 | 1.5 | 50% | 0-17 : No Core. |
| 20 | 23 | 2.0 | 66% | |
| 23 | 26 | 2.8 | 94% | 17-34.5 OXIDISED HANGINGWALL VOLCANICS |
| 26 | 29 | 2.9 | 97% | Alternating units of felsic and mafic volcanics. |
| 29 | 32 | 2.8 | 94% | Strong oxidation to 22.7 metres. Limonite on fracture |
| 32 | 35 | 2.8 | 94% | surfaces from 22.7 to 34.5 metres. |
| 35 | 38 | 3.0 | 100% | |
| 38 | 41 | 3.0 | 100% | 34.5-66.6 HANGINGWALL VOLCANICS - ALTERNATING UNITS |
| 41 | 44 | 2.8 | | OF FELSIC AND MAFIC VOLCANICS |
| 44 | 47 | 3.1 | 110% | Green-grey felsic volcanics typically having an apparent |
| 47 | 50 | 3.1 | 110% | fragmental texture. Patchy chlorite-silica alteration. |
| 50 | 53 | 2.9 | 97% | Fine-grained dark green mafic units occur within the |
| 53 | 56 | 2.8 | 94% | felsic units. In detail contacts between the units are |
| 56 | 59 | 2.8 | 94% | typically irregular. Late carbonate-quartz-asbestos? veins |
| 59 | 62 | 3.0 | 100% | occur within the mafic units. Minor pyrite occurs on |
| 62 | 65 | 3.0 | 100% | some of the contacts between the felsic and mafic units. |
| 65 | 68 | 3.0 | 100% | 61.6-66.6 : Minor pinkish K-feldspar alteration. |
| 68 | 71 | 3.1 | 110% | |
| 71 | 74 | 3.0 | 100% | 66.6-73.7 VOLCANICLASTIC BRECCIA |
| 74 | 77 | 3.0 | 100% | Mixture of green fine-grained volcaniclastic and pink |
| 77 | 80 | 3.0 | 100% | felsic volcanic. |
| 80 | 83 | 3.0 | 100% | 73.7-129.1 HANGINGWALL VOLCANICS - PREDOMINANTLY |
| 83 | 86 | 3.0 | 100% | FELSIC VOLCANICS |
| 86 | 89 | 3.05 | 105% | Predominantly grey-green feldspar-phyric volcanics |
| 89 | 92 | 3.0 | 100% | with minor bands of dark-green mafic volcanic. |
| 92 | 95 | 3.0 | 100% | Sharp, but irregular contacts occur between the units. |
| 95 | 98 | 2.9 | 97% | 61.6-114: Mild pink colouration of felsic volcanics |
| 98 | 101 | 3.0 | 100% | related to K-feldspar alteration. |
| 101 | 104 | 3.0 | 100% | 114-120.2: Increased K-feldspar-sericite alteration. |
| 104 | 107 | 3.0 | 100% | 100: Fol/CA = 30° |
| 107 | 110 | 3.0 | 100% | 120.2-125.3: Bleached zones of sericite-chlorite-epidote |
| 110 | 113 | 2.9 | 97% | alteration. |
| 113 | 116 | 3.1 | 110% | 125.3-129.1 : Sericite-altered felsic volcanic. |
| 116 | 119 | 3.1 | 110% | Late quartz-chlorite and quartz-K-feldspar veins cross-cut |
| 119 | 122 | 3.0 | 100% | by later hematitic microfractures. |
| 122 | 125 | 3.0 | 100% | |

ASSAY DATA

| Sample No. | From | To | Rec. % |
|---|---|---|---|

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# DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP42



| INTERVAL From | INTERVAL To | RECOVERY m | RECOVERY % | DESCRIPTION |
|---|---|---|---|---|
| 125 | 128 | 2.6 | 88 | 129.1-146.4 MAFIC VOLCANICS - WITH CHLORITE-CARBONATE |
| 128 | 131 | 3.0 | 100 | -K-FLEDSPAR VEINS |
| 131 | 134 | 2.9 | 97 | |
| 134 | 137 | 3.1 | 110 | 146.4-163.3 FELSIC VOLCANICS - MINOR MAFICS |
| 137 | 140 | 3.0 | 100 | 149.0: Fol/CA = 22° |
| 140 | 143 | 3.0 | 100 | |
| 143 | 146 | 3.0 | 100 | 163.3-193.9 MAFIC VOLCANICS |
| 146 | 149 | 3.0 | 100 | |
| 149 | 152 | 3.0 | 100 | 193.9-294 PREDOMINANTLY FELDSPAR-PHYRIC VOLCANICS |
| 152 | 155 | 3.0 | 100 | |
| 155 | 158 | 2.9 | 97 | 193.9-209.2: Feldspar-phyric volcanics. |
| 158 | 161 | 3.0 | 100 | 193.9-196.3: Strong pink K-feldspar alteration. |
| 161 | 164 | 3.0 | 100 | 209.2-219.2: Pink-green felsic volcanic, abundant quartz-chlorite |
| 164 | 167 | 3.0 | 100 | veins. |
| 167 | 170 | 3.1 | 110 | 219.2-225.3: Chlorite altered feldspar-phyric volcanic. |
| 170 | 173 | 3.0 | 100 | 225.3-237.9: Pink K-feldspar alteration. |
| 173 | 176 | 3.0 | 100 | 237.9-241: Mafic volcanic. |
| 176 | 179 | 3.0 | 100 | 241-294: Patchy K-feldspar alteration of felsic volcanics. |
| 179 | 182 | 3.0 | 100 | |
| 182 | 185 | 3.0 | 100 | 294-307.5 DARK GREEN MAFIC VOLCANICS |
| 185 | 188 | 3.1 | 110 | Strongly sheared and fractured rock. |
| 188 | 191 | 3.0 | 100 | |
| 191 | 194 | 3.0 | 100 | 307.5-370 PINK-GREEN FELSIC VOLCANICS WITH MINOR |
| 194 | 197 | 3.0 | 100 | MAFIC UNITS |
| 197 | 200 | 2.9 | 97 | Variable pink K-feldspar alteration with patches of |
| 200 | 203 | 3.0 | 100 | green chlorite alteration. K-feldspar alteration often |
| 203 | 206 | 3.0 | 100 | occurs along veins and overprints the apparent earlier |
| 206 | 209 | 3.0 | 100 | green chloritic alteration. |
| 209 | 212 | 3.0 | 100 | A pale yellow-green alteration occurs in the felsic |
| 212 | 215 | 3.0 | 100 | volcanics adjacent to the mafic units - ? chlorite- |
| 215 | 218 | 3.0 | 100 | sericite-epidote alteration. |
| 218 | 221 | 3.0 | 100 | 307.5-332.3: Felsic Volcanics. |
| 221 | 224 | 3.0 | 100 | 332.3-335.6: Mafic Volcanic. |
| 224 | 227 | 2.8 | 94 | 335.6-352.5: Felsic Volcanic. |
| 227 | 230 | 2.85 | 95 | 352.5-352.9: Mafic Volcanic. |
| 230 | 233 | 3.00 | 100 | 352.9-370 : Felsic Volcanic. |

ASSAY DATA

| Sample No. | From | To | Rec. % |
|---|---|---|---|

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HOLE NUMBER: HP42



| INTERVAL From | INTERVAL To | RECOVERY m | RECOVERY % | DESCRIPTION | | ASSAY DATA Sample No. | From | To | Rec. % |
|---|---|---|---|---|---|---|---|---|---|
| 233 | 236 | 3.0 | 100 | | 370: Contact/CA = 45° | | | | |
| 236 | 239 | 3.0 | 100 | | | | | | |
| 239 | 242 | 3.0 | 100 | 370-437 | ALTERNATING FELSIC & MAFIC VOLCANICS | | | | |
| 242 | 245 | 3.0 | 100 | | Thin bands of felsic and mafic units. Pink K-feldspar | | | | |
| 245 | 248 | 2.85 | 95 | | alteration of felsic bands. | | | | |
| 248 | 251 | 2.9 | 97 | | 417.6: Contact/CA = 45° | | | | |
| 251 | 254 | 2.9 | 97 | | | | | | |
| 254 | 257 | 2.9 | 97 | 437-543.1 | BROKEN & STRONGLY SHEARED HANGINGWALL | | | | |
| 257 | 260 | 3.0 | 100 | | VOLCANICS | | | | |
| 260 | 263 | 3.0 | 100 | 437-442 : | Broken core. | | | | |
| 263 | 266 | 2.95 | 98 | 442-445.3 : | Fault zone of pug and shattered rock. | | | | |
| 266 | 269 | 3.0 | 100 | 445.3-450.8: | Feldspar-phyric volcanic. | | | | |
| 269 | 272 | 3.0 | 100 | 450.8-458: | Mafic volcanic with chlorite-epidote-hematite | | | | |
| 272 | 275 | 3.0 | 100 | | alteration. | | | | |
| 275 | 278 | 3.0 | 100 | 458-505 : | Patchy alteration of felsic volcanic | | | | |
| 278 | 281 | 2.9 | 97 | 505-538: | Alternating felsic and mafic volcanics. | | | | |
| 281 | 284 | 2.85 | 95 | | 519.7: 10cm fault pug. | | | | |
| 284 | 287 | 3.0 | 100 | | 530.8-538: Intense pink-red K-feldspar alteration | | | | |
| 287 | 290 | 3.0 | 100 | | with associated massive white quartz veins. | | | | |
| 290 | 293 | 2.85 | 95 | 538-543.1: | Sharp change to intensely foliated core as approaching | | | | |
| 293 | 296 | 2.4 | 80 | | Henty Fault Zone. | | | | |
| 296 | 299 | 2.5 | 83 | | 540: FOL/CA = 50°. | | | | |
| 299 | 302 | 2.9 | 97 | | | | | | |
| 302 | 305 | 3.0 | 100 | 543.1-591.4 | HENTY FAULT ZONE | | | | |
| 305 | 308 | 2.8 | 94 | | | | | | |
| 308 | 311 | 2.9 | 97 | 543.1-562 : | Pink and dark-green mylonite | | | | |
| 311 | 314 | 2.9 | 97 | | 558.6-562.0: Batchelorite coatings | | | | |
| 314 | 317 | 3.0 | 100 | | 560 : FOL/CA = 48° | | | | |
| 317 | 320 | 2.9 | 97 | 562-577.6: | Grey strongly silicified core within badly broken | | | | |
| 320 | 323 | 3.0 | 100 | | puggy zones. | | | | |
| 323 | 326 | 2.95 | 98 | 577.6-588 : | Pug Zone: Intensely sheared silicified volcanics. | | | | |
| 326 | 329 | 2.9 | 97 | | Completely shattered rock with less than 10cm | | | | |
| 329 | 332 | 2.85 | 95 | | sections of core in puggy zones. | | | | |
| 332 | 335 | 3.0 | 100 | 588-591.4: | Mylonite. | | | | |
| 335 | 338 | 2.9 | 97 | | 588.5: Shear Fabric/CA = 62° | | | | |
| 338 | 341 | 2.8 | 94 | | 590.1: Tight small-scale folding in mylonite | | | | |

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| INTERVAL From | INTERVAL To | RECOVERY m | RECOVERY % | DESCRIPTION | Sample No. | From | To | Rec. % | Au | Ag | Cu | Pb | Zn | As | Bi |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | ASSAY DATA (ALL PPM) | | | | | | |
| 341 | 344 | 2.9 | 97 | Fold axis/CA = 48° | | | | | | | | | | | |
| 344 | 347 | 2.95 | 98 | | | | | | | | | | | | |
| 347 | 350 | 3.00 | 100 | 591.4-603.2 STRONGLY MINERALISED ZONE | T10463 | 591.4 | 592 | | 4.48 | <2 | 5000 | 2850 | 1950 | 11 | 33 |
| 350 | 353 | 2.80 | 94 | Quartz-base metal mineralisation occurs as blue-grey | 64 | 592 | 593 | | 0.71 | 2 | 925 | 975 | 2975 | 11 | 11 |
| 353 | 356 | 3.00 | 100 | siliceous lenses and veins within intense silica-sericite | 65 | 593 | 594 | | 0.18 | <2 | 800 | 375 | 300 | 3 | 3 |
| 356 | 359 | 2.90 | 97 | -pyrite alteration. Coarse-grained base-metal sulphides | 66 | 594 | 595 | | 0.20 | 4 | 725 | 450 | 500 | 5 | 4 |
| 359 | 362 | 2.95 | 98 | occur within the siliceous lenses. | 67 | 595 | 596 | | 1.55 | 15 | 50 | 50 | 275 | 8 | 2 |
| 362 | 365 | 3.20 | 106 | | 68 | 596 | 597 | | 0.44 | <2 | 850 | 350 | 275 | 8 | 12 |
| 365 | 368 | 2.80 | 94 | 591.4-592.8: Grey silica-sericite-pyrite alteration with lenses | 69 | 597 | 598 | | 8.37 | 30 | 2500 | 8300 | 17000 | 8 | 45 |
| 368 | 371 | 2.95 | 98 | of blue-grey silica containing sulphides (2-3%). Mainly | 70 | 598 | 599 | | 28.30 | 22 | 4750 | 3675 | 850 | 10 | 66 |
| 371 | 374 | 2.75 | 91 | pyrite with minor chalcopyrite and galena. | 71 | 599 | 600 | | 24.20 | 18 | 1525 | 2350 | 400 | 11 | 61 |
| 374 | 377 | 2.75 | 91 | 592.8-597.8: Intense silica-sericite alteration with lenses of pyrite | 72 | 600 | 601 | | 0.37 | <2 | 250 | 525 | 450 | 15 | 10 |
| 377 | 380 | 2.75 | 91 | and quartz-base metal min. | 73 | 601 | 602 | | 2.22 | 2 | 650 | 375 | 250 | 13 | 7 |
| 380 | 383 | 2.90 | 97 | 592.8-594.7: Pale-green sericitic alteration in | 74 | 602 | 603 | | 0.26 | <2 | 1375 | 950 | 225 | 16 | 9 |
| 383 | 386 | 2.8 | 94 | silicified volcanic. | 75 | 603 | 604 | | 38.3 | 25 | 1850 | 9100 | 325 | 17 | 33 |
| 386 | 389 | 2.80 | 94 | 594.7-596.3: Silica-sericite-pyrite alteration. | 76 | 604 | 605 | | 7.50 | 5 | 1500 | 2350 | 225 | 11 | 15 |
| 389 | 392 | 3.00 | 100 | Py:2-10% and minor chalcopyrite. | 77 | 605 | 606 | | 130.0 | 72 | 5700 | 11900 | 2150 | 26 | 119 |
| 392 | 395 | 2.90 | 97 | 596.3-597.8: Pale-green silica-sericite alteration with | 78 | 606 | 607 | | 370.0 | 65 | 6300 | 6100 | 800 | 9 | 109 |
| 395 | 398 | 2.90 | 97 | lenses of quartz-base metal min. Sulphides (1-2%) | 79 | 607 | 608 | | 4.43 | <2 | 1475 | 8900 | 9900 | 6 | 5 |
| 398 | 401 | 2.85 | 95 | consisting of pyrite, galena, sphalerite and chalcopyrite. | 81 | 608 | 608.7 | | 1.61 | <2 | 1475 | 6900 | 1875 | 6 | 5 |
| 401 | 404 | 2.80 | 94 | 597.8-600: Silica-sericite alteration with extensive quartz-base | 82 | 608.7 | 609.2 | | 0.22 | <2 | 400 | 500 | 225 | 42 | 3 |
| 404 | 407 | 2.90 | 97 | metal min. (10-20% of rock). Sulphides (galena, | 83 | 609.2 | 610 | | 0.07 | <2 | 300 | <25 | 300 | 4 | <1 |
| 407 | 410 | 2.90 | 97 | sphalerite, chalcopyrite): 1-3% | 84 | 610 | 610.9 | | 0.16 | <2 | 250 | 125 | 300 | 11 | <1 |
| 410 | 413 | 2.60 | 88 | 597.8-597.9: Galena-sphalerite-minor chalcopyrite band. | 85 | 610.9 | 611.9 | | 0.99 | <2 | 1450 | 3400 | 1400 | 33 | 7 |
| 413 | 416 | 2.85 | 95 | 597.9: N.B. VISIBLE GRAIN OF GOLD. | 86 | 611.9 | 612.9 | | 0.81 | 18 | 2550 | 17200 | 15200 | 45 | 6 |
| 416 | 419 | 3.00 | 100 | 600-600.2: Fault Pug. | 87 | 612.9 | 613.9 | | 0.24 | <2 | 575 | 3625 | 3250 | 39 | 7 |
| 419 | 422 | 2.8 | 94 | 600.2-603.2: Strong silica-sericite-pyrite alteration (10% fine-grained | 88 | 613.9 | 615 | | 0.10 | <2 | 250 | 1225 | 5400 | 20 | 1 |
| 422 | 425 | 2.9 | 97 | pyrite) with quartz-base metal min. (5-10% of rock) | 89 | 615 | 616 | | 0.11 | 2 | 125 | 1525 | 1375 | 19 | 2 |
| 425 | 428 | 2.7 | 90 | containing minor pyrite, galena, chalcopyrite. | 90 | 616 | 617 | | 1.25 | <2 | 1250 | 2725 | 550 | 16 | 5 |
| 428 | 431 | 2.8 | 94 | 602.3: Fol/CA = 45° | 91 | 617 | 618 | | 1.17 | 4 | 7100 | 8400 | 1075 | 29 | 18 |
| 431 | 434 | 2.6 | 88 | | 92 | 618 | 619 | | 3.71 | 25 | 3100 | 6100 | 4000 | 64 | 9 |
| 434 | 437 | 2.8 | 94 | 603.2-608.7: MAJOR ZONE OF MINERALISATION | 93 | 619 | 620 | | 0.17 | 2 | 725 | 1175 | 175 | 62 | 7 |
| 437 | 440 | 2.8 | 94 | Intense pervasive silica-sericite-pyrite alteration with | 94 | 620 | 621 | | 0.05 | <2 | 350 | 550 | 200 | 55 | 8 |
| 440 | 443 | 2.5 | 83 | quartz-base-metal min. (10-15%). Associated $CO_3$ | 95 | 621 | 622 | | 0.04 | <2 | 100 | 100 | 150 | 39 | 1 |
| 443 | 446 | 2.8 | 94 | alteration occurs in fractures and veinlets ($CO_3$ content | 96 | 622 | 623 | | 0.04 | 6 | 400 | 350 | 200 | 63 | 8 |
| 446 | 449 | 2.9 | 97 | 5-10%). The $CO_3$ alteration appears to be later than | 97 | 623 | 624 | | 0.05 | <2 | 375 | 400 | 175 | 65 | 10 |

| INTERVAL From | INTERVAL To | RECOVERY m | RECOVERY % | DESCRIPTION | ASSAY DATA Sample No | From | To | Rec. % |
|---|---|---|---|---|---|---|---|---|
| 449 | 452 | 2.9 | 97 | the pervasive silica-sericite-pyrite alteration. Coarse-grained sulphides | | | | |
| 452 | 455 | 2.9 | 97 | (pyrite, galena, sphalerite, chalcopyrite) in the quartz-base metal min. | | | | |
| 455 | 458 | 3.0 | 100 | vary up to 5%. Sulphide-rich sections are 605.2-605.7, 606.4-606.6, 607.0- | | | | |
| 458 | 461 | 2.95 | 98 | 607.1. | | | | |
| 461 | 464 | 2.95 | 98 | N.B. Clusters of visible gold grains occur with the sulphides at | | | | |
| 464 | 467 | 2.95 | 98 | 605.6-605.7 and 606.4-606.6. A single gold grain occurs without | | | | |
| 467 | 470 | 2.9 | 97 | sulphide at 606.1. | | | | |
| 470 | 473 | 2.8 | 94 | | | | | |
| 473 | 476 | 2.9 | 97 | 608.7-609.2 CARBONATE-RICH ZONE | | | | |
| 476 | 479 | 2.85 | 95 | | | | | |
| 479 | 482 | 2.9 | 97 | 608.7-608.9: Silica-sericite-pyrite-carbonate alteration. | | | | |
| 482 | 485 | 2.85 | 95 | 608.9-609.2: White carbonate with blood-red jasper from 609.1-609.2 | | | | |
| 485 | 488 | 2.9 | 97 | | | | | |
| 488 | 491 | 2.9 | 97 | 609.2-610.9: CHLORITE-SILICA ALTERATION ZONE | | | | |
| 491 | 494 | 2.8 | 94 | Green silicified unit with minor pyrite on fractures. | | | | |
| 494 | 497 | 2.9 | 97 | | | | | |
| 497 | 500 | 2.8 | 94 | 610.9-613.9 STRONGLY MINERALISED ZONE | | | | |
| 500 | 503 | 3.0 | 100 | Silica-sericite-pyrite alteration with quartz-base metal mineralisation | | | | |
| 503 | 506 | 3.0 | 100 | (up to 30%). Coarse-grained sulphides (pyrite, galena, chalcopyrite, | | | | |
| 506 | 509 | 2.8 | 94 | sphalerite): 5-10% in quartz-base metal min. Overall pyrite content | | | | |
| 509 | 512 | 2.85 | 95 | in rock approx. 10%. | | | | |
| 512 | 515 | 3.0 | 100 | 612.5: Fol/CA = 45° | | | | |
| 515 | 518 | 2.95 | 98 | 613.0: Fol/CA = 38° | | | | |
| 518 | 521 | 2.9 | 97 | | | | | |
| 521 | 524 | 2.8 | 94 | 613.9-619.5 WEAKLY MINERALISED ZONE | | | | |
| 524 | 527 | 3.0 | 100 | | | | | |
| 527 | 530 | 2.9 | 97 | 613.9-615: 50% Silica-sericite-pyrite alteration and 50% unaltered | | | | |
| 530 | 533 | 2.9 | 97 | quartz phyric volcanic. | | | | |
| 533 | 536 | 2.95 | 98 | 615-619.5: Patchy silica-sericite-pyrite alteration with quartz- | | | | |
| 536 | 539 | 2.6 | 88 | base metal min. (15%). Sulphides (pyrite, galena, sphalerite, | | | | |
| 539 | 542 | 2.6 | 88 | chalcopyrite): 2-3%. | | | | |
| 542 | 545 | 2.75 | 91 | 616.7-616.8: Pug zone. Broken core either side of pug from | | | | |
| 545 | 548 | 2.5 | 83 | 615-619.5. | | | | |
| 548 | 551 | 2.8 | 94 | Minor $CO_3$ in fractures. | | | | |
| 551 | 554 | 2.9 | 97 | | | | | |
| 554 | 557 | 2.85 | 95 | | | | | |

GOLD FIELDS EXPLORATION PTY. LIMITED

PROJECT: HENTY

# DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP42



| INTERVAL From | INTERVAL To | RECOVERY m | RECOVERY % | DESCRIPTION |
|---|---|---|---|---|
| 557 | 560 | 2.8 | 94 | 619.5-624.1 STRONGLY ALTERED VOLCANICS |
| 560 | 563 | 2.5 | 83 | Strong pervasive silica-sericite-pyrite alteration. Minor $CO_3$ in |
| 563 | 566 | 2.8 | 94 | lenses. Py: 15-20%. |
| 566 | 569 | 2.5 | 83 | 623.8: 1cm wide lens of massive pyrite with $CO_3$ gangue. |
| 569 | 572 | 2.5 | 83 | |
| 572 | 575 | 2.8 | 94 | 624.1-627.1 VERY WEAKLY ALTERED QUARTZ-PHYRIC |
| 575 | 578 | 2.7 | 90 | VOLCANIC |
| 578 | 581 | 1.6 | 55 | Minor patchy sericitic-silica alteration. |
| 581 | 584 | 3.0 | 100 | Quartz-phyric volcanic with pink silicified patches (5%) and green |
| 584 | 587 | 2.7 | 90 | sericitic patches (10%). |
| 587 | 590 | 2.5 | 83 | |
| 590 | 593 | 2.8 | 94 | 627.1-629 MODERATELY ALTERED VOLCANIC |
| 593 | 596 | 3.0 | 100 | Silica-sericite-pyrite alteration with minor $CO_3$ in fractures. |
| 596 | 599 | 2.9 | 97 | Pyrite-rich bands. Py: 1-2%. |
| 599 | 602 | 2.85 | 95 | |
| 602 | 605 | 2.85 | 95 | 629-632.9 CARBONATE ZONE |
| 605 | 608 | 3.0 | 100 | 70% carbonate with patchy silica-sericite-pyrite alteration. |
| 608 | 611 | 2.9 | 97 | Py: 1-2%. |
| 611 | 614 | 2.6 | 88 | |
| 614 | 617 | 2.9 | 97 | 632.9-637.0 VOLCANICLASTIC SHALE |
| 617 | 620 | 2.9 | 97 | Light-grey volcaniclastic ash. Minor pyrite and $CO_3$ |
| 620 | 623 | 2.95 | 98 | 633: FOL/CA = 30° |
| 623 | 626 | 2.85 | 95 | |
| 626 | 629 | 3.0 | 100 | 637.0-641.5 MINERALISED ZONE |
| 629 | 632 | 3.0 | 100 | Pervasive strong silica-sericite-pyrite alteration (Py: 5%) |
| 632 | 635 | 2.95 | 98 | Very minor $CO_3$. Quartz-base metal min. (5%). |
| 635 | 638 | 3.0 | 100 | Splashes of galena, chalcopyrite and sphalerite. Base-metal |
| 638 | 641 | 2.95 | 98 | sulphide-rich zone at 639.5-639.9. |
| 641 | 644 | 2.9 | 97 | 637.2: ½cm wide lens of massive pyrite. |
| 644 | 647 | 3.0 | 100 | |
| 647 | 650 | 2.9 | 97 | 641.5-645.9 WEAKLY ALTERED VOLCANICS |
| 650 | 653 | 3.0 | 100 | Silica-sericite-pyrite alteration, minor $CO_3$ in fractures. |
| 653 | 656 | 3.0 | 100 | |
| 656 | 659 | 3.0 | 100 | 645.9-650.5 STRONGLY MINERALISED ZONE |
| 659 | 662 | 2.9 | 97 | |
| 662 | 665 | 2.95 | 98 | 645.9-649.1 Strong silica-sericite-pyrite alteration with patchy |

ASSAY DATA (Au ppm)

| Sample No | From | To | Rec. % | Au | Ag | Cu | Pb | Zn | As | Bi |
|---|---|---|---|---|---|---|---|---|---|---|
| T10498 | 624 | 625 | | 0.01 | <2 | 75 | <25 | 125 | 13 | 3 |
| 99 | 625 | 626 | | 0.01 | 2 | 25 | <25 | 150 | 14 | 3 |
| T12101 | 626 | 627 | | 0.05 | 1.0 | 10 | 55 | 90 | 9 | 1 |
| 102 | 627 | 628 | | 0.01 | 2.0 | 33 | 75 | 145 | 17 | <1 |
| 103 | 628 | 629 | | 0.06 | 1.0 | 10 | 50 | 90 | 20 | 2 |
| 104 | 629 | 630 | | 0.01 | 2.0 | 10 | 70 | 105 | 13 | 4 |
| 105 | 630 | 631 | | 0.01 | 1.0 | 15 | 75 | 145 | 11 | 4 |
| 106 | 631 | 632 | | 0.01 | 2.5 | 30 | 75 | 140 | 18 | 3 |
| 107 | 632 | 633 | | 0.01 | 2.0 | 10 | 80 | 130 | 15 | 4 |
| 108 | 633 | 634 | | 0.05 | 1.0 | 50 | 125 | 240 | 29 | 5 |
| 109 | 634 | 635 | | 0.03 | 2.0 | 115 | 315 | 405 | 71 | 6 |
| 110 | 635 | 636 | | 0.04 | 2.5 | 195 | 900 | 900 | 89 | 5 |
| 111 | 636 | 637 | | 0.03 | 4.0 | 350 | 1800 | 1850 | 39 | <1 |
| 112 | 637 | 638 | | 0.64 | 17.5 | 1800 | 4650 | 3350 | 170 | 20 |
| 113 | 638 | 639 | | 18.10 | 32.0 | 1010 | 8050 | 6100 | 87 | 32 |
| 114 | 639 | 640 | | 0.70 | 12.0 | 2050 | 7900 | 9250 | 37 | 9 |
| 115 | 640 | 641 | | 1.07 | 10.0 | 555 | 1660 | 115 | 56 | 13 |
| 116 | 641 | 642 | | 2.57 | 19.0 | 50 | 195 | 310 | 53 | 5 |
| 117 | 642 | 643 | | 0.07 | 2.0 | 20 | 70 | 90 | 15 | 7 |
| 118 | 643 | 644 | | 0.06 | 1.5 | 20 | 80 | 110 | 16 | 2 |
| 119 | 644 | 645 | | 0.02 | 0.5 | 20 | 60 | 130 | 9 | <1 |
| 121 | 645 | 645.9 | | 0.46 | 8.5 | 25 | 75 | 85 | 32 | 4 |
| 122 | 645.9 | 647 | | 23.80 | 40.0 | 3650 | 190 | 210 | 39 | 30 |
| 123 | 647 | 648 | | 8.40 | 36.0 | 2400 | 215 | 155 | 250 | 26 |
| 124 | 648 | 649 | | 4.21 | 20.0 | 1800 | 135 | 170 | 70 | 10 |
| 125 | 649 | 650 | | 0.50 | 10.0 | 1450 | 210 | 195 | 110 | 12 |
| 126 | 650 | 651 | | 0.16 | 4.0 | 50 | 80 | 80 | 22 | 4 |
| 127 | 651 | 652 | | 0.04 | 1.5 | 20 | 65 | 90 | 15 | <1 |
| 128 | 652 | 653 | | 0.05 | 1.0 | 30 | 45 | 90 | 20 | 9 |

GOLD FIELDS EXPLORATION PTY. LIMITED

PROJECT: HENTY

# DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP42



| INTERVAL From | INTERVAL To | RECOVERY m | RECOVERY % | DESCRIPTION |
|---|---|---|---|---|
| 665 | 668 | 2.95 | 98 | quartz-base metal min. (above 5%) and $CO_3$ filled fractures. |
| 668 | 671 | 2.95 | 98 | 649.1-650.5 Strong alteration, but only minor quartz-base metal min. |
| 671 | 674 | 2.9 | 97 | Massive pyrite lenses less 1cm wide (Py: 5-7%). |
| 674 | 677 | 2.9 | 97 | |
| 677 | 680 | 2.95 | 98 | 650.5-669.9 WEAKLY ALTERED VOLCANICS |
| 680 | 683 | 2.5 | 83 | Weak sericitic alteration of quartz-phyric volcanics. |
| 683 | 686 | 2.85 | 95 | Minor chlorite-carbonate in fractures. |
| 686 | 689 | 2.95 | 98 | |
| 689 | 692 | 2.9 | 97 | 669.9-671.1 MODERATE TO STRONGLY ALTERED VOLCANICS |
| 692 | 692.5 | .5 | 100 | Sericite-pyrite alteration. |
| | | | | 669.9-670.1: Pyrite-rich zone (Py: 10%) |
| | | | | |
| | | | | 671.1-682.5 INTENSE SILICA ALTERED VOLCANICS |
| | | | | 671.3: Quartz vein breccia |
| | | | | 681.1-681.2: Quartz vein. |
| | | | | |
| | | | | 682.5-692.5 MODERATE TO STRONGLY ALTERED VOLCANICS |
| | | | | Moderate to strong silica-sericite-pyrite alteration. |
| | | | | Intense sericite-pyrite alteration in patches. |
| | | | | Overall pyrite content up to 10%. Minor slugs of coarse pyrite and chalcopyrite. |
| | | | | E.O.H. |

ASSAY DATA (ALL PPM)

| Sample No. | From | To | Rec. % | Au | Ag | Cu | Pb | Zn | As | Bi | | ASSAY NOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ASSAY METHOD | | FIRE ASSAY | AAS | AAS | AAS | AAS | VAPOUR HYDRIDE | AAS | | |
| | | DETECTION (PPM) | | 0.01 | 0.5 | 5 | 5 | 5 | 1 | 1 | | T12101 - T12144 |
| | | DETECTION (PPM) | | 0.01 | 2 | 25 | 25 | 25 | 1 | 1 | | T10463 - T10499 |
| T12129 | 669 | 669.9 | | 0.01 | 1.5 | 10 | 55 | 75 | 12 | 3 | | |
| 130 | 669.9 | 671.1 | | 0.03 | 2.0 | 20 | 75 | 75 | 19 | 9 | | |
| 131 | 671.1 | 672 | | 0.01 | 0.5 | 10 | 35 | 60 | 8 | <1 | | |
| 132 | 672 | 673 | | 0.03 | 1.5 | 5 | 15 | 40 | 6 | <1 | | |
| 133 | 681.5 | 682.5 | | 0.03 | 1.5 | 55 | 330 | 500 | 12 | 1 | | |
| 134 | 682.5 | 683.5 | | 0.11 | 3.0 | 330 | 185 | 160 | 74 | 27 | | |
| 135 | 683.5 | 684.5 | | 0.08 | 2.0 | 70 | 115 | 95 | 50 | 21 | | |
| 136 | 684.5 | 685.5 | | 0.07 | 3.0 | 40 | 190 | 100 | 33 | 18 | | |
| 137 | 685.5 | 686.5 | | 0.09 | 2.0 | 60 | 175 | 90 | 46 | 18 | | |
| 138 | 686.5 | 687.5 | | 0.07 | 1.5 | 50 | 185 | 240 | 35 | 8 | | |
| 139 | 687.5 | 688.5 | | 0.03 | 1.5 | 20 | 90 | 220 | 14 | <1 | | |
| 141 | 688.5 | 689.5 | | 0.09 | 1.5 | 140 | 145 | 155 | 25 | 32 | | |
| 142 | 689.5 | 690.5 | | 0.05 | 1.5 | 20 | 40 | 70 | 3 | <1 | | |
| 143 | 690.5 | 691.5 | | 0.09 | 1.5 | 370 | 90 | 85 | 38 | 20 | | |
| 144 | 691.5 | 692.5 | | 0.09 | 3.5 | 480 | 110 | 105 | 31 | 17 | | |