

DEFIANCE MINING NL - MATHINNA PROJECT - REVERSE CIRCULATION DRILL HOLE LOG

| | | | | | | | |
|-----------|-----------------|------------|-------------------|----------|----------|-------------|-----------|
| Aspect | New Golden Gate | Geologist | DG Jackson | Easting | 574627m | Hole No | RC99MT064 |
| Commenced | 7.7.99 | Drillers | Diamond Drill Tas | Northing | 5406573m | Azimuth | 265 AMG |
| Completed | 9.7.99 | Hole Depth | 145m | RL | 307.5m | Inclination | 60 |

| Depth | | Lithology | | | | | | Sampling | | |
|-------|----|-----------|--------------------------------------|----------------|------------|-------|------|----------|----|-----------|
| om | To | Colour | Description | Mineralisation | Alteration | % Qtz | Desc | From | To | Sample No |
| 0 | 1 | br&gr | Clay - Slimes | | | | | 0 | 2 | 107443 |
| 1 | 2 | br&gr | Clay - Slimes | | | | | 2 | 4 | 107444 |
| 2 | 3 | br&gr | Clay - Slimes | | | | | 4 | 6 | 107445 |
| 3 | 4 | br&gr | Clay - Slimes | | | | | 6 | 8 | 107446 |
| 4 | 5 | rbr&gr | Clay - Slimes | | | | | 8 | 10 | 107447 |
| 5 | 6 | rbr&gr | Clay - Slimes | | | | | 10 | 12 | 107448 |
| 6 | 7 | ybr | Clay & Siltstone, weathered | | | 2 | w fe | 12 | 14 | 107449 |
| 7 | 8 | ybr | Siltstone, weathered | | | 0 | | 14 | 16 | 107450 |
| 8 | 9 | ybr | Siltstone, weathered | | | 0 | | 16 | 18 | 107451 |
| 9 | 10 | ybr | Siltstone, weathered | | | 0 | | 18 | 20 | 107452 |
| 10 | 11 | ybr | Siltstone, weathered | | | 0 | | 20 | 22 | 107453 |
| 11 | 12 | ybr | Siltstone, weathered | | | 0 | | 22 | 24 | 107454 |
| 12 | 13 | ybr | Siltstone, weathered | | | 0 | | 24 | 26 | 107455 |
| 13 | 14 | ybr | Siltstone, weathered | | | 0 | | 26 | 27 | 107456 |
| 14 | 15 | ybr | Siltstone, weathered | | | 0 | | 27 | 28 | 107457 |
| 15 | 16 | ybr | Siltstone, weathered | | | 0 | | 28 | 29 | 107458 |
| 16 | 17 | ybr | Siltstone, weathered | | | 1 | w fe | 29 | 31 | 107459 |
| 17 | 18 | ybr&gr | Siltstone, weathered | | | 1 | w fe | | | |
| 18 | 19 | lgr | Siltstone, minor weathering | | | 0 | | | | |
| 19 | 20 | lgr&br | Siltstone, partly weathered | | | 0 | | | | |
| 20 | 21 | lbr | Siltstone, weathered | | | 1 | w fe | | | |
| 21 | 22 | lbr | Siltstone, weathered | | | 0 | | | | |
| 22 | 23 | lbr | Siltstone, weathered | | | 0 | | | | |
| 23 | 24 | lgr&br | Siltstone, partly weathered | | | 0 | | | | |
| 24 | 25 | lbr&gr | Siltstone, weathered | | | 0 | | | | |
| 25 | 26 | lgr&br | Siltstone & Sandstone, fg, weathered | | | 0 | | | | |
| 26 | 27 | lbr | Siltstone & Sandstone, fg, weathered | | | 40 | w fe | | | |
| 27 | 28 | lbr | Siltstone, weathered | | | 40 | w fe | | | |
| 28 | 29 | lbr | Siltstone, weathered | | | 5 | w fe | | | |
| 29 | 30 | lbr | Siltstone, weathered | | | 0.5 | w fe | | | |

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DEFIANCE MINING NL - MATHINNA PROJECT - REVERSE CIRCULATION DRILL HOLE LOG

| | | | | | | | |
|----------------|-----------------|------------|-------------------|----------|----------|-------------|-----------|
| Prospect | New Golden Gate | Geologist | DG Jackson | Easting | 574627m | Hole No | RC99MT064 |
| Date Commenced | 7.7.99 | Drillers | Diamond Drill Tas | Northing | 5406573m | Azimuth | 265 AMG |
| Date Completed | 9.7.99 | Hole Depth | 145m | RL | 307.5m | Inclination | 60 |

| Depth | | Lithology | | | | | | Sampling | | |
|-------|----|-----------|---------------------------------------------|----------------|------------|-------|---------|----------|----|-----------|
| From | To | Colour | Description | Mineralisation | Alteration | % Qtz | Desc | From | To | Sample No |
| 30 | 31 | lbr&gr | Siltstone, weathered | | | 0.5 | w fe | 31 | 32 | 107460 |
| 31 | 32 | lgr&br | Siltstone, weathered | | | 20 | w fe | 32 | 33 | 107461 |
| 32 | 33 | lgr&br | Siltstone & Sandstone, fg, weathered | | | 60 | w fe | 33 | 34 | 107462 |
| 33 | 34 | lgr&br | Siltstone, partly weathered | Tr su | | 15 | w fe gr | 34 | 36 | 107463 |
| 34 | 35 | lgr&br | Siltstone, partly weathered | | | 2 | w fe | 36 | 37 | 107464 |
| 35 | 36 | lgr | Siltstone, minor weathering | | | 2 | w fe | 37 | 38 | 107465 |
| 36 | 37 | lgr | Siltstone & Sandstone, fg, minor weathering | | | 10 | w fe | 38 | 40 | 107466 |
| 37 | 38 | lgr | Siltstone & Sandstone, fg, minor weathering | 0.5% cg asp | | 10 | w fe gr | 40 | 42 | 107467 |
| 38 | 39 | lgr | Siltstone & Sandstone, fg, minor weathering | | | 3 | w fe | 42 | 44 | 107468 |
| 39 | 40 | lgr | Siltstone & Sandstone, fg, minor weathering | | | 10 | w | 44 | 46 | 107469 |
| 40 | 41 | lgr | Siltstone & Sandstone, fg, fresh | | | 2 | w | 46 | 48 | 107470 |
| 41 | 42 | lgr | Siltstone & Sandstone, fg, fresh | | | 5 | w | 48 | 50 | 107471 |
| 42 | 43 | lgr | Sandstone, fg & Siltstone, fresh | Tr su | | 5 | w | 50 | 52 | 107472 |
| 43 | 44 | lgr | Sandstone, fg & Siltstone, fresh | | | 5 | w | 52 | 54 | 107473 |
| 44 | 45 | lgr | Sandstone, fg & Siltstone, fresh | | | 5 | w | 54 | 56 | 107474 |
| 45 | 46 | lgr | Siltstone, fresh | | | 2 | w | 56 | 58 | 107475 |
| 46 | 47 | lgr | Siltstone, fresh | | | 0.5 | w | 58 | 60 | 107476 |
| 47 | 48 | lgr | Siltstone, fresh | | | 0.5 | w | | | |
| 48 | 49 | lgr | Siltstone, fresh | | | 0 | | | | |
| 49 | 50 | lgr | Sandstone, fg, fresh | | | 1 | w | | | |
| 50 | 51 | lgr | Sandstone, fg & Siltstone, fresh | | | 10 | w | | | |
| 51 | 52 | lgr | Siltstone, fresh | | | 0 | | | | |
| 52 | 53 | lgr | Siltstone, fresh | | | 0 | | | | |
| 53 | 54 | lgr | Siltstone & Sandstone, fg, fresh | | | 0.5 | w | | | |
| 54 | 55 | lgr | Siltstone, fresh | | | 0 | | | | |
| 55 | 56 | lgr | Siltstone, fresh | | | 0 | | | | |
| 56 | 57 | lgr | Siltstone, fresh | | | 0 | | | | |
| 57 | 58 | lgr | Siltstone & Sandstone, fg, fresh | | | 0 | | | | |
| 58 | 59 | lgr | Siltstone, fresh | | | 0 | | | | |
| 59 | 60 | lgr | Siltstone & Sandstone, fg, fresh | | | 1 | w | | | |

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DEFIANCE MINING NL - MATHINNA PROJECT - REVERSE CIRCULATION DRILL HOLE LOG

| | | | | | | | |
|----------------|-----------------|------------|-------------------|----------|----------|-------------|-----------|
| Aspect | New Golden Gate | Geologist | DG Jackson | Easting | 574627m | Hole No | RC99MT064 |
| Date Commenced | 7.7.99 | Drillers | Diamond Drill Tas | Northing | 5406573m | Azimuth | 265 AMG |
| Date Completed | 9.7.99 | Hole Depth | 145m | RL | 307.5m | Inclination | 60 |

| Depth | | Lithology | | | | | | Sampling | | |
|-------|----|-----------|----------------------------------------|----------------|-------------|-------|------|----------|----|-----------|
| From | To | Colour | Description | Mineralisation | Alteration | % Qtz | Desc | From | To | Sample No |
| 60 | 61 | lgr | Siltstone, fresh | Tr py | | 0 | | 60 | 61 | 107477 |
| 61 | 62 | lgr | Siltstone, fresh | 0.5% asp/py | | 1 | w | 61 | 62 | 107478 |
| 62 | 63 | lgr | Siltstone, fresh | Tr py | | 0 | | 62 | 63 | 107479 |
| 63 | 64 | lgr | Siltstone, fresh | 1% py/asp | | 3 | w | 63 | 64 | 107480 |
| 64 | 65 | lgr | Siltstone, fresh | 0.5% py | | 5 | w | 64 | 65 | 107481 |
| 65 | 66 | lgr | Siltstone, fresh | 0.5% asp/py | | 10 | w | 65 | 66 | 107482 |
| 66 | 67 | lgr | Siltstone, fresh | Tr py | | 1 | w gr | 66 | 68 | 107483 |
| 67 | 68 | lgr | Siltstone, fresh | | | 2 | w | 68 | 70 | 107484 |
| 68 | 69 | lgr | Siltstone, fresh | | | 0 | | 70 | 72 | 107485 |
| 69 | 70 | lgr | Siltstone, fresh | | | 0 | | 72 | 74 | 107486 |
| 70 | 71 | lgr | Siltstone, fresh | | | 0 | | 74 | 76 | 107487 |
| 71 | 72 | cm | Siltstone, fresh | Tr su | bleached | 0.5 | w | 76 | 78 | 107488 |
| 72 | 73 | cm | Siltstone, fresh | | bleached | 0.5 | w | 78 | 80 | 107489 |
| 73 | 74 | cm&lgr | Siltstone, fresh | | | 0 | | 80 | 82 | 107490 |
| 74 | 75 | lgr | Siltstone, fresh | | | 0 | | 82 | 84 | 107491 |
| 75 | 76 | lgr | Sandstone, fg & Siltstone, fresh | | | 0 | | 84 | 86 | 107492 |
| 76 | 77 | lgr | Siltstone & minor sandstone, fg, fresh | | Py spotting | 0 | | 86 | 88 | 107493 |
| 77 | 78 | lgr | Siltstone, fresh | | | 0 | | 88 | 90 | 107494 |
| 78 | 79 | lgr | Siltstone, fresh | | | 0 | | | | |
| 79 | 80 | lgr | Siltstone, fresh | | | 3 | w | | | |
| 80 | 81 | lgr | Siltstone, fresh | | | 0.5 | w | | | |
| 81 | 82 | lgr | Siltstone, fresh | Tr py | | 3 | w | | | |
| 82 | 83 | lgr | Siltstone, fresh | | | 1 | w | | | |
| 83 | 84 | gr | Siltstone, fresh | | | 0 | | | | |
| 84 | 85 | gr | Siltstone, fresh | | | 0 | | | | |
| 85 | 86 | lgr | Siltstone, fresh | | | 1 | w | | | |
| 86 | 87 | lgr | Siltstone, fresh | | | 0 | | | | |
| 87 | 88 | lgr | Siltstone, fresh | | | 0 | | | | |
| 88 | 89 | lgr | Siltstone, fresh | | | 0 | | | | |
| 89 | 90 | lgr | Siltstone, fresh | | | 0 | | | | |

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DEFIANCE MINING NL - MATHINNA PROJECT - REVERSE CIRCULATION DRILL HOLE LOG

| | | | | | | | |
|----------------|-----------------|------------|-------------------|----------|----------|-------------|-----------|
| Prospect | New Golden Gate | Geologist | DG Jackson | Easting | 574627m | Hole No | RC99MT064 |
| Date Commenced | 7.7.99 | Drillers | Diamond Drill Tas | Northing | 5406573m | Azimuth | 265 AMG |
| Date Completed | 9.7.99 | Hole Depth | 145m | RL | 307.5m | Inclination | 60 |

| Depth | | Lithology | | | | | | Sampling | | |
|-------|-----|-----------|------------------|--------------------|------------|-------|------|----------|-----|-----------|
| From | To | Colour | Description | Mineralisation | Alteration | % Qtz | Desc | From | To | Sample No |
| 90 | 91 | lgr | Siltstone, fresh | | | 0 | | 90 | 92 | 107495 |
| 91 | 92 | lgr | Siltstone, fresh | | | 1 | w | 92 | 93 | 107496 |
| 92 | 93 | lgr | Siltstone, fresh | Tr asp | | 1 | w | 93 | 94 | 107497 |
| 93 | 94 | l&dgr | Siltstone, fresh | 0.5% asp/py | | 10 | w | 94 | 95 | 107498 |
| 94 | 95 | dgr | Siltstone, fresh | 0.5% asp/py | | 3 | w | 95 | 97 | 107499 |
| 95 | 96 | dgr | Siltstone, fresh | Tr su | | 3 | w | 97 | 98 | 107500 |
| 96 | 97 | dgr | Siltstone, fresh | 0.5% py | | 3 | w | 98 | 99 | 107501 |
| 97 | 98 | dgr | Siltstone, fresh | Tr py | | 0 | | 99 | 101 | 107502 |
| 98 | 99 | dgr | Siltstone, fresh | 0.5% py | | 5 | w gr | 101 | 103 | 107503 |
| 99 | 100 | gr | Siltstone, fresh | Tr py | | 1 | w | 103 | 105 | 107504 |
| 100 | 101 | gr | Siltstone, fresh | Tr py | | 5 | | 105 | 107 | 107505 |
| 101 | 102 | gr | Siltstone, fresh | | | 0.5 | | 107 | 109 | 107506 |
| 102 | 103 | gr | Siltstone, fresh | Tr py | | 1 | | 109 | 111 | 107507 |
| 103 | 104 | gr | Siltstone, fresh | | | 0.5 | | 111 | 112 | 107508 |
| 104 | 105 | gr | Siltstone, fresh | | | 0 | | 112 | 113 | 107509 |
| 105 | 106 | gr | Siltstone, fresh | Tr py | | 0 | | 113 | 114 | 107510 |
| 106 | 107 | gr | Siltstone, fresh | 0.5% py | | 1 | | 114 | 115 | 107511 |
| 107 | 108 | gr | Siltstone, fresh | | | 0 | | 115 | 116 | 107512 |
| 108 | 109 | gr | Siltstone, fresh | Tr py | | 0 | | 116 | 117 | 107513 |
| 109 | 110 | gr | Siltstone, fresh | Tr py | | 3 | | 117 | 118 | 107514 |
| 110 | 111 | gr | Siltstone, fresh | Tr py | | 0.5 | | 118 | 119 | 107515 |
| 111 | 112 | gr | Siltstone, fresh | Tr py | | 2 | | 119 | 120 | 107516 |
| 112 | 113 | gr | Siltstone, fresh | Tr py/asp | | 5 | | | | |
| 113 | 114 | gr | Siltstone, fresh | 2% fg py/asp? 1 vg | | 20 | | | | |
| 114 | 115 | gr | Siltstone, fresh | 1% py/asp | | 50 | | | | |
| 115 | 116 | gr | Siltstone, fresh | 0.5% py | | 2 | | | | |
| 116 | 117 | dgr | Siltstone, fresh | Tr py | | 0 | | | | |
| 117 | 118 | gr | Siltstone, fresh | 1% py/asp | | 25 | | | | |
| 118 | 119 | gr | Siltstone, fresh | 1% py/asp | | 10 | | | | |
| 119 | 120 | lgr | Siltstone, fresh | Tr py | | 5 | | | | |

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DEFIANCE MINING NL - MATHINNA PROJECT - REVERSE CIRCULATION DRILL HOLE LOG

| | | | | | | | |
|-----------------|-----------------|------------|-------------------|----------|----------|-------------|-----------|
| Aspect | New Golden Gate | Geologist | DG Jackson | Easting | 574627m | Hole No | RC99MT064 |
| Start Commenced | 7.7.99 | Drillers | Diamond Drill Tas | Northing | 5406573m | Azimuth | 265 AMG |
| Start Completed | 9.7.99 | Hole Depth | 145m | RL | 307.5m | Inclination | 60 |

| Depth | | Lithology | | | | | | Sampling | | | |
|-------|-----|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|-------|------|----------|---------|-------------|--|
| From | To | Colour | Description | Mineralisation | Alteration | % Qtz | Desc | From | To | Sample No | |
| 20 | 121 | lgr | Siltstone, fresh | 1%cg asp/py 1 vg | | 5 | | 120 | 121 | 107517 | |
| 21 | 122 | lgr | Siltstone, fresh | 0.5% py/asp | | 5 | | 121 | 122 | 107518 | |
| 22 | 123 | gr | Siltstone, fresh | Tr su | | 2 | | 122 | 123 | 107519 | |
| 23 | 124 | gr | Siltstone, fresh | | | 0.5 | | 123 | 125 | 107520 | |
| 24 | 125 | gr | Siltstone, fresh | Tr py | | 0.5 | | 125 | 127 | 107521 | |
| 25 | 126 | gr | Siltstone, fresh | | | 0 | | 127 | 129 | 107522 | |
| 26 | 127 | gr | Siltstone, fresh | Tr py | | 0.5 | | 129 | 131 | 107523 | |
| 27 | 128 | gr | Siltstone, fresh | 1% py | | 0.5 | | 131 | 133 | 107524 | |
| 28 | 129 | gr | Siltstone, fresh | Tr py | | 3 | | 133 | 135 | 107525 | |
| 29 | 130 | gr | Siltstone, fresh | | | 1 | | 135 | 137 | 107526 | |
| 30 | 131 | gr | Siltstone, fresh | Tr py | | 0 | | 137 | 139 | 107527 | |
| 31 | 132 | gr | Siltstone, fresh | Tr py | | 3 | | 139 | 141 | 107528 | |
| 32 | 133 | gr | Siltstone, fresh | | | 5 | | 141 | 143 | 107529 | |
| 33 | 134 | dgr | Siltstone, fresh | Tr py | | 0 | | 143 | 145 | 107530 | |
| 34 | 135 | dgr | Siltstone, fresh | Tr py | | 0 | | | | | |
| 35 | 136 | gr | Siltstone, fresh | 0.5% py | | 5 | | | | | |
| 36 | 137 | dgr | Siltstone, fresh | Tr py | | 3 | | Surveys | | | |
| 37 | 138 | dgr | Siltstone, fresh | Tr py | | 0 | | | | | |
| 38 | 139 | dgr | Siltstone, fresh | Tr py | | 0 | | Depth | Azimuth | Inclination | |
| 39 | 140 | dgr | Siltstone, fresh | 0.5% py | | 0.5 | | | | | |
| 40 | 141 | dgr | Siltstone, fresh | 0.5% py | | 5 | | 30 | 253 | 58.5 | |
| 41 | 142 | dgr | Siltstone, fresh | 0.5% py | | 5 | | 60 | 255 | 55.5 | |
| 142 | 143 | dgr | Siltstone, fresh | 1% py | | 3 | | 90 | 256 | 50 | |
| 143 | 144 | dgr | Siltstone, fresh | 1% py | | 0 | | 120 | 258.5 | 48.5 | |
| 144 | 145 | bl | Shale & Siltstone, fresh | 1% py | | 0 | | | | | |
| | | | EOH at 145m - Hole drilled approx 8m off section to the north and angled back to the plane of the section because the original cemented collar site on dam bank became too boggy to get back on to and had to be abandoned. | | | | | | | | |

498165