DEPARTMENT OF MINES — TASMANIA

# DIAMOND DRILL CORE RECORD

799 050

Hole No. 1

Drilled by W. Robinson

Core Recovery

Geological Logging by— RJ.

Area of Operation ZEEHAN

Location of Site MANGANESE HILL.

Date Commenced

Date Completed

Reduced Level of Site

Bearing of Hole 227°

Dip of Hole 50°

Bore Depth 525'

41 108

General AMG Coords: 3607E 53603N.

Coreheld M4-5.

Ref No 2177.

| DRILL RECORD | | | | GEOLOGICAL LOG | | | GEOLOGICAL SECTION | | ASSAY RESULTS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | From | To | Core Recov. | From | To | Description | Core | Sample | Sample No. | From | To | | | | | | | |
| | | | | 0' | 40' | 2" recovery of soft brown weathered shale. | | | | | | | | | | | | |
| | | | | 40' | 50' | 1'6" rec. soft weathered shale. | | | | | | | | | | | | |
| | | | | 50 | 55 | 2'3" rec " " " | | | | | | | | | | | | |
| | | | | 55' | 60' | 2' rec " " " with 4" crushed area at 56' with $MnO_2$ staining and ½" qtz vein. | | | | | | | | | | | | |
| | | | | 60' | 65' | 2'5" rec weathered shale, iron stained | | | | | | | | | | | | |
| | | | | 65' | 70' | 2' rec " " " " | | | | | | | | | | | | |
| | | | | 70' | 75' | 1' rec change to unoxidized dark grey shale. highly sheared with probable fault at 70 feet. | | | | | | | | | | | | |
| | | | | 75' | 80' | 1' rec dark grey shale, very disturbed bedding & small folds developed. | | | | | | | | | | | | |
| | | | | 80' | 85 | 6" rec broken core - dark grey shale, bedding less disturbed at 45° to core. | | | | | | | | | | | | |
| | | | | 85' | 95 | 2'6" recovery. dark grey argillaceous shale. | | | | | | | | | | | | |
| | | | | 95' | 105' | 2'6" rec. dark grey argillaceous shale very sheared zone 104-105', slight leaching with a few open voids & some filled with small qtz crystals & a little pyrite. | | | | | | | | | | | | |
| | | | | 105 | 110 | 3' rec dark grey, arg shale, bedding at 45° to core. minor faulting & shearing. | | | | | | | | | | | | |
| | | | | 110 | 115. | 4'6" rec } dark grey arg shale, moderately sheared | | | | | | | | | | | | |
| | | | | 115 | 120 | 9'6" rec } with fine qtz veining bedding 20° to core. | | | | | | | | | | | | |

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| DRILL RECORD | | | | GEOLOGICAL LOG | | | GEOLOGICAL SECTION | | ASSAY RESULTS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | From | To | Core Recov. | From | To | Description | Core | Sample | Sample No. | From | To |
| | | | | 130' | 135' | 1'6" rec. dark grey shale, bedding at 5° to core, (possible fold or fault) | | | | | |
| | | | | 135' | 140' | 3" rec | | | | | |
| | | | | 140' | 145' | 3" rec } dark grey shale, slightly sheared. | | | | | |
| | | | | 145' | 150' | 3' rec. | | | | | |
| | | | | 150' | 155' | 4' rec dark grey shale, weakly sheared, bedding at 35° to core. | | | | | |
| | | | | 155' | 160' | 4' rec. same as 150-155. | | | | | |
| | | | | 160' | 170' | 6' rec. lightly sheared dark grey shale, blebs & small veinlets of carbonate and a little pyrite, bedding at 40° to core | | | | | |
| | | | | 170' | 177'6" | 5' rec } dark grey arg. shale | | | | | |
| | | | | 177'6" | 181' | 4½' rec } moderately sheared at 178'-180' | | | | | |
| | | | | 181' | 190' | 2' rec } numerous blebs & small veinlets | | | | | |
| | | | | 190' | 194' | 1' rec } of carbonate (siderite?) bedding generally 40°-50° to the core. | | | | | |
| | | | | 194' | 200' | 5' rec light grey arenaceous shale - brecciated into large fragments, bedding generally 70°-80° to the core. | | | | | |
| | | | | 200' | 210' | 7' rec. light grey to darker grey brecciated and sheared shale with blebs & veining of qtz & siderite. | | | | | |
| | | | | 210 | 215 | 4' rec } | | | | | |
| | | | | 215 | 220 | 4'6" rec } light grey arenaceous | | | | | |
| | | | | 220 | 225 | 4' rec } shale, slight brecciation | | | | | |
| | | | | 225 | 230 | 4' rec } & minor faulting, very | | | | | |
| | | | | 230 | 235 | 4' rec } brecciated at 232'-233' with siderite veining and blebs to 1" | | | | | |
| | | | | 235 | 240 | medium grey arenaceous shale, slight brecciation & shearing, siderite blebs, bedding 70°-80° to core. | | | | | |

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| DRILL RECORD | | | | GEOLOGICAL LOG | | | GEOLOGICAL SECTION | | ASSAY RESULTS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | From | To | Core Recov. | From | To | Description | Core | Sample | Sample No. | From | To |
| | | | | 240' | 244' | 1'6" rec broken core, as 225-240' | | | | | |
| | | | | 244 | 256 | 9' rec. banded light & dark grey shale, bedding at 80° to core, slight fracturing with sidrite & pyrite filling | | | | | |
| | | | | 256' | 265 | 6' rec. banded light & dark shale. slight shearing, sidrite blebs. | | | | | |
| | | | | 265' | 281. | 15' 6" rec. light grey arenaceous shale bedding 40°-50° to core. | | | | | |
| | | | | 281' | 294' | 10' rec. grey aren. shale. | | | | | |
| | | | | 294 | 297' | 2' 6" rec. sheared light & dark grey aren. shale. sidrite filling, shearing at 20° to core, some brecciation. | | | | | |
| | | | | 297' | 316' | 12' rec. relatively unsheared light & dark grey shale, bedding at 60° to core | | | | | |
| | | | | 316' | 327' | sheared dark grey shale, sidrite & a little pyrite in shears at 20° & 30° to core | | | | | |
| | | | | 327 | 344' | 12' rec. dark grey shale, sheared & veined with sidrite | | | | | |
| | | | | 344 | 357' | 11' rec. highly sheared & brecciated light grey shale, many blebs & veinlets of sidrite, bedding at 348' parallel to the core. | | | | | |
| | | | | 357 | 363. | dark grey slightly sheared shale. | | | | | |
| | | | | 363' | 370' | 6' rec. light grey shale & siderite zone, sheared. 50% siderite. | | | | | |
| | | | | 370' | 375' | 4' rec siderite zone some grey shale & little pyrite, also a little galena present. | | | | | |
| | | | | 375' | 385' | 10' rec. siderite & grey shale zone, slightly pyritic | | | | | |
| | | | | 385' | 401' | 14' rec. grey shale, sheared, 30% siderite | | | | | |
| | | | | 401' | 402 | qtz siderite vein apparently at 90° to the core. | | | | | |
| | | | | 402 | 404' | 2' rec. light grey aren. shale with 30% siderite | | | | | |
| | | | | 404 | 464. | light & dark grey aren. shale, slightly sheared and veined with siderite | | | | | |
| | | | | 464 | 471' | 6' rec. sheared grey shale, shearing | | | | | |

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| DRILL RECORD | | | | GEOLOGICAL LOG | | | GEOLOGICAL SECTION | | ASSAY RESULTS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | From | To | Core Recov. | From | To | Description | Core | Sample | Sample No. | From | To | |
| | | | | | | parallel to the core & filled with siderite | | | | | | |
| | | | | 471 | 495' | sheared grey shale, bedding nearly parallel to the core. some siderite & pyrite. | | | | | | |
| | | | | 495' | 506' | light grey arenaceous shale sheared & veined with siderite. no venation at low angles to the core. | | | | | | |
| | | | | 506' | 525' | dark grey, sheared and brecciated shale. some slickensiding. | | | | | | |
| | | | | | | END. | | | | | | |