# THE DOWA MINING CO., LTD. (JAPAN)

010337

PROPERTY SHEBA COPPER MINES LTD.

HOLE No. S-71-5

| DIP TEST | | |
|---|---|---|
| | Angle | |
| Footage | Reading | Corrected |
| 702 | -89° | |

Hole No. S-71-5 Sheet No. 1/9
Section
Date Begun June 18, 1971
Date Finished June 22, 1971

Lat. L 11S
Dep. 40W
Bearing -90°
Elev. Collar 5180 A.S.L.

Total Depth 0-702'
Logged By. L.W. Saleken
Claim J #7
Core Size B.Q.W.L.

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | o/o Cu | o/o Mo | o/o $MoS_2$ (Cal) | oz/T Au | oz/T Ag |
|---|---|---|---|---|---|---|---|---|---|
| 0-13 | Overburden - glacial till | | | | | | | | |
| 13-27.5 | M. g. granodiorite; propylitic mod sericite-clay alt. assoc iron staining, blocky | | | | | | | | |
| 27.5-30 | F.g. mafic dyke, unaltered, blocky | | | | | | | | |
| 30-45 | Granodiorite, propylitic, strong sericite-clay alt. ep weak in Fr, shattered | | | | | | | | |
| 45-69 | M.g. granodiorite, propylitic mod. sericite-clay alt. assoc ca - zeolites in Fr; FI>3/4" Fr> -60° | | | | | | | | |
| 61.5-63 | Fault zone, verticle | | | | | | | | |
| 69-106 | M. g. granodiorite, weak propylitic alt. | | | | | | | | |
| 73-83 | Strong sericite-clay alt; FI ½", Fr> 40 | | | | | | | | |
| 79.5 | Fault | 1222 | 80-90 | 10 | 0.01 | 0.001 | 0.001 | Tr | 0.02 |
| 86-89 | Unaltered | | | | | | | | |
| 93 | Bo noted in chloritic mafic weak | 1223 | 90-100 | 10 | 0.01 | 0.001 | 0.001 | Tr | 0.02 |

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| Footage | Reading | Corrected |
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PROPERTY _____ HOLE No. s-71-5

Hole No. _____ Sheet No. 2/9
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$(Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 106-152 | M. g. granodiorite, porphyritic texture; | 1224 | 110-120 | 10 | 0.01 | Tr | Tr | Tr | 0.02 |
| | propylitic, strong sericite-chlorite; | | | | | | | | |
| | FI ½", Fr > 60; ep-ch strong on | | | | | | | | |
| | mafics. Weak cp noted | | | | | | | | |
| 115.5 | Fault (sand) | | | | | | | | |
| 116 | Fault (sand) | | | | | | | | |
| 125 | Fault | 1225 | 120-130 | 10 | 0.01 | Tr | Tr | Tr | 0.02 |
| 134-139 | Intense sericite-chlorite alt. & shearing | 1226 | 130-140 | 10 | 0.05 | Tr | Tr | Tr | 0.02 |
| 137 | Fr @ -70° assoc ep-ch with Bo | | | | | | | | |
| 141 | 1" K-spar band @ -10° | 1227 | 140-150 | 10 | <0.01 | 0.001 | 0.001 | Tr | Tr |
| 147 | ½" K-Spar band @ -20° | | | | | | | | |
| | | | | | | | | | |
| 152-178 | Sheared granodiorite; propylitic | 1228 | 150-160 | 10 | 0.02 | 0.001 | 0.002 | Tr | Tr |
| | intense sericite-chlorite alt. assoc hem, ca zeolites | | | | | | | | |
| 154 | Fault (gouge) | | | | | | | | |
| 162-169 | Strong hem with fault | 1229 | 160-170 | 10 | 0.01 | 0.001 | 0.002 | Tr | Tr |
| 168-170 | Strong hem and faulting | | | | | | | | |
| 173-178 | Fracture zone, Fr. @>-50°, assoc weak | 1230 | 170-180 | 10 | 0.03 | 0.001 | 0.002 | Tr | Tr |
| | Cp with ch-ep | | | | | | | | |
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| | Angle | |
| Footage | Reading | Corrected |
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PROPERTY _____ HOLE No. S-71-5

Hole No. _____ Sheet No. 3/9
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$ (Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 178-198 | M.g. granodiorite; propylitic, strong | 1231 | 180-190 | 10 | 0.04 | 0.001 | 0.001 | Tr | Tr |
| | sericite-chlorite alt. FI -¼", Fr -50° to | | | | | | | | |
| | -70°, Weak Cp note with Fr assoc ch | | | | | | | | |
| | | | | | | | | | |
| 198-250 | Sheared granodiortie; propylitic | 1232 | 190-200 | 10 | 0.04 | 0.001 | 0.001 | Tr | 0.02 |
| | intense sericite-chlorite alt assoc hem | | | | | | | | |
| | ca, qtz vn; FI 1/8" -¼", Fr -50° to -70° | | | | | | | | |
| | weak Cp-Bo noted with Fr & qtz vn | | | | | | | | |
| 201-202 | Fr @ -60° assoc Bo | 1233 | 200-210 | 10 | 0.14 | 0.004 | 0.006 | Tr | 0.02 |
| 202 | Fault, blocky for 6" | | | | | | | | |
| 206 | Fault | | | | | | | | |
| 215-219 | Shattered & blocky with fault | 1234 | 210-220 | 10 | 0.04 | 0.001 | 0.001 | Tr | 0.02 |
| 220-225 | Shattered & blocky | 1235 | 220-230 | 10 | 0.06 | 0.001 | 0.001 | Tr | 0.02 |
| 227-228 | Shattered & blocky | 1236 | 230-240 | 10 | 0.04 | Tr | Tr | Tr | 0.02 |
| 237.5 | 2" qtz vn @ -40° barren | 1237 | 240-250 | 10 | 0.01 | 0.001 | 0.002 | Tr | Tr |
| 245-250 | Strong hem with shearing | | | | | | | | |
| | | | | | | | | | |
| 250-260 | M.g. granodiorite, intense argillic | 1238 | 250-260 | 10 | 0.06 | 0.007 | 0.011 | Tr | Tr |
| | alt. assoc hem & ca | | | | | | | | |
| | FI > 1" Fr > -40° | | | | | | | | |
| 259.5 | Mo stringer @ -40° | | | | | | | | |

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| Footage | Reading | Corrected |
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PROPERTY _____ HOLE No. S-71-5

Hole No. _____ Sheet No. 4/9
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$ (Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 260-345 | Granodiorite; propylitic intense sericite | | | | | | | | |
| | alt assoc hem - ep, ca, ch & pyrolusite | | | | | | | | |
| | FI >1", Fr -40° to -60° | | | | | | | | |
| 262.5 | Fr @ -40°, assoc Bo | 1239 | 260-270 | 10 | 0.03 | 0.002 | 0.003 | Tr | Tr |
| 265-267 | Shear zone, strong hem | 1240 | 270-280 | 10 | 0.02 | 0.001 | 0.001 | Tr | Tr |
| 288-290 | Shear zone strong hem, blocky | 1241 | 280-290 | 10 | 0.02 | 0.002 | 0.003 | Tr | Tr |
| 295-311 | Strong ep-hem assoc flaky sericite | 1242 | 290-300 | 10 | 0.05 | 0.001 | 0.002 | Tr | Tr |
| | weak Cp noted; hem-ep bands | | | | | | | | |
| | @ -60° | | | | | | | | |
| 297 | Fault | 1243 | 300-310 | 10 | 0.02 | 0.001 | 0.001 | Tr | Tr |
| 311-345 | Shear zone, intense sericite assoc | 1244 | 310-320 | 10 | 0.01 | 0.007 | 0.011 | Tr | Tr |
| | pyrolusite | 2145 | 320-330 | 10 | 0.01 | 0.003 | 0.005 | Tr | Tr |
| 328 | D.S. fault on -80 face | 1246 | 330-340 | 10 | 0.01 | 0.001 | 0.002 | Tr | Tr |
| 338 | Fault | 1247 | 340-350 | 10 | 0.02 | 0.001 | 0.001 | Tr | Tr |
| 345-388 | M. g. granodiorite; propylitic, strong | 1249 | 350-360 | 10 | 0.03 | 0.003 | 0.005 | Tr | Tr |
| | sericite-clay alt; ep-ch strong in | | | | | | | | |
| | mafics & fractures; FI 1", Fr -60° | | | | | | | | |
| 357-359 | Shattered & blocky | | | | | | | | |
| 360 | Fault on -65 face | 1250 | 360-370 | 10 | 0.02 | 0.007 | 0.011 | Tr | Tr |
| 371-373 | Shear zone, blocky with hem, S.S. move | 3001 | 370-380 | 10 | 0.01 | 0.001 | 0.001 | Tr | Tr |
| | | | | | | | | | |

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| Footage | Reading | Corrected |
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PROPERTY _____ HOLE No. S71-5

Hole No. _____ Sheet No. 5/9 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By. _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$(Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 377-382 | Fault, blocky with hem gouge | | | | | | | | |
| | | | | | | | | | |
| 388-400 | M. g. unaltered granodiorite | 3002 | 380-390 | 10 | 0.02 | 0.002 | 0.003 | Tr | Tr |
| | | 3003 | 390-400 | 10 | 0.01 | 0.001 | 0.001 | Tr | Tr |
| 400-422 | M.g. granodiorite, mod propylitic | | | | | | | | |
| | alt. | | | | | | | | |
| 400 | Fr @ -60° assoc ch-sc with Cp | | | | | | | | |
| 405 | 1" Ep-qtz vn @ -80°, barren | | | | | | | | |
| 408 | Fr @ -70°, assoc Cp | | | | | | | | |
| | | | | | | | | | |
| 422-433 | M. g. granodiorite | | | | | | | | |
| | | | | | | | | | |
| 422-426 | Unaltered | | | | | | | | |
| 426-428.5 | Mod. propylitic alt. | | | | | | | | |
| 428.5=430 | Propylitic, strong clay alt | | | | | | | | |
| 430-433 | Unaltered | | | | | | | | |
| | | | | | | | | | |
| 433-464 | M.g. granodiorite, propylitic, mod to | | | | | | | | |
| | strong clay alt assoc ep, ep-ch strong | | | | | | | | |
| | in mafic & Fr | | | | | | | | |
| 451 | 4" aplite porphyry dyke @ -70° barren | No# | 450-460 | 10 | 0.02 | Tr | Tr | Tr | 0.01 |

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PROPERTY _____ HOLE No. S-71-5

Hole No. _____ Sheet No. 6/9
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$ (Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 455.5 | ½" qtz vn @ -70 assoc ep, Mo noted on Fr | | | | | | | | |
| 460-461 | Ep-qtz vn @ -50° assoc Bo | 3004 | 460-470 | 10 | 0.08 | 0.002 | 0.004 | Tr | 0.01 |
| 468 | 1" aplite dyke @ -50°, barren | | | | | | | | |
| | | | | | | | | | |
| 464-474.5 | Unaltered granodiorite | | | | | | | | |
| | | | | | | | | | |
| 474.5-502 | M.g. granodiorite, porphyritic; | | | | | | | | |
| | propylitic mod to strong clay | | | | | | | | |
| | alt assoc ep, ch | | | | | | | | |
| 478 | 3" qtz - k-spar porphyry ( Pink porphyry) | | | | | | | | |
| | @ -60° assoc k-spar alt, barren | | | | | | | | |
| 483 | Fr @ -80°, assoc ch with Bo | 3005 | 480-490 | 10 | 0.01 | Tr | Tr | Tr | 0.01 |
| 493.5 | 3" Aplite dyke @ -70°, barren | | | | | | | | |
| 495.5 | ½" Aplite dyke @ -60°, barren | | | | | | | | |
| 501.5 | Fault (sand) | | | | | | | | |
| | | | | | | | | | |
| 502-515 | Sheared granodiorite, propylitic, intense | | | | | | | | |
| | sericite-chlorite alt., assoc strong hem & | | | | | | | | |
| | ep | | | | | | | | |
| 505-511 | Shattered | | | | | | | | |
| 514 | 12" Aplite dyke @ -70°, barren | | | | | | | | |

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| Footage | Reading | Corrected |
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PROPERTY _____ HOLE No. 8-71-5

Hole No. _____ Sheet No. 7/9
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$ (Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 515-530 | Granodiorite; propylitic, strong sericite- | | | | | | | | |
| | clay alt; hem, weak; ep-ch strong in mafic | | | | | | | | |
| | | | | | | | | | |
| 530-535 | Strongly sericitized aplite dyke @ -40° | 3006 | 530-540 | 10 | <0.01 | Tr | Tr | Tr | 0.01 |
| | assoc hem, barren | | | | | | | | |
| | | | | | | | | | |
| 535-545 | Sheared granodiorite; propylitic, intense | 3007 | 540-550 | 10 | <0.01 | Tr | Tr | Tr | 0.01 |
| | sericite-chlorite alt., hem strong | | | | | | | | |
| 537 | D.S. fault on -70° face | | | | | | | | |
| | | | | | | | | | |
| 545-648 | M.g.-c.g. granodiorite, slightly | | | | | | | | |
| | porphyritic texture; propylitic alt | | | | | | | | |
| 545-555 | Strong sericite-chlorite alt | | | | | | | | |
| 549 | 14" Aplite dyke @ -80°, barren | | | | | | | | |
| 555-563 | Strong sericite-clay alt FI> 1" | | | | | | | | |
| 557-562 | Aplite dyke @ -80°, barren | | | | | | | | |
| 563-566 | Unaltered | | | | | | | | |
| 566.5-579.5 | Mod. sericite alt assoc ep mod in mafic | | | | | | | | |
| 569.5 | 24" Aplite dyke @ -60°, barren | | | | | | | | |
| 579 | Fr with ch, assoc weak Cp | | | | | | | | |
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| | Angle | |
| Footage | Reading | Corrected |
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PROPERTY _____ HOLE No. S-71-5

Hole No. _____ Sheet No. 8/9
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$(Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 579-600 | Strong to mod. sericite-chlorite alt assoc hem | 3008 | 580-590 | 10 | <0.01 | 0.001 | 0.001 | Tr | 0.01 |
| 580.5 | Fault with hem | | | | | | | | |
| 598-599.5 | Fault zone, D.S. fault vn -70° face | | | | | | | | |
| 600-609 | Unaltered | 3009 | 600-610 | 10 | 0.01 | 0.001 | 0.001 | Tr | Tr |
| 609-648 | Mod. sericite-chlorite alt, ep, mod in Fr & mafic | | | | | | | | |
| 613 | 2" fracture zone Fr @ -60° to -70° assoc Bo-Cp | 3010 | 610-620 | 10 | 0.02 | Tr | Tr | Tr | TR |
| 620 | Fr @ -40°, assoc Bo-Cp | 3011 | 620-630 | 10 | 0.01 | 0.001 | 0.001 | Tr | Tr |
| 622.5-623.5 | Strong hem | | | | | | | | |
| 623.5=624.5 | Fault zone with breccia, hem matrix with | | | | | | | | |
| | ca-qtz frags | | | | | | | | |
| 630-631.5 | Intense ep with hem | | | | | | | | |
| | | | | | | | | | |
| 648-652 | Intense argillic alt. with strong hem | | | | | | | | |
| | shear zone | | | | | | | | |
| 650-652 | Blocky, O.S. fault on -80° face | 3012 | 650-660 | 10 | <0.01 | Tr | Tr | Tr | Tr |
| | | | | | | | | | |
| 653-680 | M.g. granodiorite; porphyritic; propylitic | | | | | | | | |
| | mod to weak alt. | | | | | | | | |
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PROPERTY _____ HOLE No. S-71-5

| DIP TEST | | |
|---|---|---|
| | Angle | |
| Footage | Reading | Corrected |
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Hole No. _____ Sheet No. 9/9
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

| DEPTH | DESCRIPTION | SAMPLE No. | FOOTAGE | WIDTH OF SAMPLE | Cu | Mo | $MoS_2$ (Cal) | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 680-691 | M.g. leucocratic granodiorite; propylitic | | | | | | | | |
| | strong clay alt assoc ep, ca-zeolites | | | | | | | | |
| | | | | | | | | | |
| 691-702 | M.g. granodiorite; strong propylitic | 3013 | 690-702 | 12 | <0.01 | Tr | Tr | Tr | Tr |
| | alt. ep strong in Fr & mafics | | | | | | | | |
| 691-695 | Strong sericite-chlorite alt | | | | | | | | |
| 695-702 | Strong sericite-clay alt | | | | | | | | |
| 701 | Weak Cp noted on Fr @ -60° | | | | | | | | |