

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)  
HOLE No.: MM294-5  
Collar Eastings: -11200.00  
Collar Northings: 500.00  
Collar Elevation: 0.00

Collar Inclination: -45.00  
Grid Bearing: 180.00  
Final Depth: 314.00 metres

Logged by: J.G. Thurlow  
Date: June 24/99  
Down-hole Survey: Tropari

| FROM | TO   | LITHOLOGICAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLE No. | FROM | TO | ASSAYS |          |          |        |        |
|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|----|--------|----------|----------|--------|--------|
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |      |    | WIDTH  | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) |
| 0    | 4.6  | Overburden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |      |    |        |          |          |        |        |
| 4.6  | 84.4 | Basaltic pillow lava with lesser intrusive bodies of intermediate-felsic composition.                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |      |    |        |          |          |        |        |
| 4.6  | 44.0 | Basaltic pillow lava, well formed pillows. Patchy hematitic alteration ranging from nil to moderate. Common calcite (+ hematite) amygdules, smaller near selvages. Selvages are weakly hematitic. Relatively little interpillow material; some reddish cherty material. Moderately magnetic (k=0.6 to 1.9; less where hematitized). Fairly good core with only minor broken sections. The section around 43 metres correlates with MM-294-4 around 101m-111m. Local trace pyrite, otherwise unmineralized and unaltered. |            |      |    |        |          |          |        |        |
| 44.0 | 61.0 | Feldsparphyric intermediate-felsic intrusive, weak hematitic alteration, otherwise essentially unaltered and without pyrite. Upper contact 25 degrees to core. Some perlitic cracks, quench fractures and hyaloclastic brecciation with blue-greenish silica introduction. Abundant small leucocratic plagioclase phenocrysts. Very weakly magnetic (k=0.15-0.3). No pyrite. Basal contact chilled 60 degrees to core, no shearing.                                                                                      |            |      |    |        |          |          |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)

HOLE No.: MM294-5

Page 2

| FROM | TO   | LITHOLOGICAL DESCRIPTION                              | SAMPLE No.                                                                                                                                                                                                                                                                                                                                                                        | FROM | TO | ASSAYS |          |          |        |        |        |
|------|------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|--------|----------|----------|--------|--------|--------|
|      |      |                                                       |                                                                                                                                                                                                                                                                                                                                                                                   |      |    | WIDTH  | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (%) |
|      | 61.0 | 70.4                                                  | Basaltic volcanics as above the intrusive except that this is more consistently moderately hematitized and more shearing is present and pillow margins are less evident. Relatively few non-hematitic domains. Non-magnetic (k=0.03). Weak-moderate ductile shearing 45-60 degrees to core. Minor zones of broken or friable core. No pyrite.                                     |      |    |        |          |          |        |        |        |
|      | 70.4 | 74.1                                                  | Intermediate-felsic intrusive; unlike the one above in that this has no phenocrysts and this is weakly altered Pale medium green. Upper contact at 55 degrees to core, lower contact at 45 degrees; this unit is pre-shearing. Weak sericitic alteration, anomalous disseminated pyrite and local trace sphalerite in fractures. Elsewhere trace of a silvery metallic (galena?). |      |    |        |          |          |        |        |        |
|      | 74.1 | 80.2                                                  | Sheared, foliated, hematitic basalt; moderate ductile shearing 45 to 50 degrees to core. Some broken core.                                                                                                                                                                                                                                                                        |      |    |        |          |          |        |        |        |
|      | 80.2 | 82.3                                                  | Intermediate-felsic intrusive; same family as 70.4-74.1m. Correlates with 294-4 from approx 117m to 120m. Upper contact 40 degrees to core and parallel to the foliation. Weak sericitic alteration and minor disseminated pyrite. Shearing becomes strong towards base where it is sub-mylonitic.                                                                                |      |    |        |          |          |        |        |        |
|      | 82.3 | 84.4                                                  | Strongly sheared, foliated (45 degrees), hematitic rocks, basaltic protolith.                                                                                                                                                                                                                                                                                                     |      |    |        |          |          |        |        |        |
| 84.4 | 85.8 | Significant fault/shear zone. Fault gouge and sheared |                                                                                                                                                                                                                                                                                                                                                                                   |      |    |        |          |          |        |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)  
HOLE No.: MM294-5

Page 3

|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSAYS     |        |        |       |          |          |        |        |        |
|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|----------|----------|--------|--------|--------|
| FROM  | TO    | LITHOLOGICAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SAMPLE No. | FROM   | TO     | WIDTH | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (%) |
|       |       | carbonate veining. Local oxidation by surface waters. Trace of post-shearing chilled diabase. Basaltic and felsic protoliths - local disseminated pyrite associated with felsic rocks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |        |        |       |          |          |        |        |        |
| 85.8  | 101.7 | Hematitized intermediate-felsic volcanic or synvolcanic intrusive. Correlates with hematitized rocks below the fault in 294-4, i.e., from 122m-128m. Abundant fine leucoxene throughout. Shearing near top of unit dies out quickly with depth. Local pseudofragmental textures. Some non-hematitized greenish patches have weak sericitic alteration and anomalous disseminated pyrite. Stubby plagioclase phenocrysts, local amphibole. Some nearly holocrystalline sections. From 91.6 to 91.7 is a sheared, strongly silicified/sericitized felsic rock with 1% disseminated pyrite and minor splashes sphalerite - this appears to be a screen of host rock into which the hematitic felsic is intruded. Brittle/ductile shearing over the last metre. |            |        |        |       |          |          |        |        |        |
| 101.7 | 130.5 | Deformation zone consisting of sheared, pyritized host rocks interspersed with (and intruded by?) a variety of synvolcanic and later intrusive lithologies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 294019     | 101.90 | 102.80 | 0.90  | 9        | 2.3      | 0.01   | 0.01   | NIL    |
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 294020     | 107.60 | 108.79 | 1.19  | 23       | 2.1      | 0.01   | 0.01   | 0.02   |
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 294021     | 118.30 | 119.90 | 1.60  | 5        | 0.6      | 0.01   | 0.01   | NIL    |
| 101.7 | 101.9 | Cohesive fault gouge derived from altered, weakly pyritized rock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |        |        |       |          |          |        |        |        |
| 101.9 | 102.8 | Sheared, friable, strongly pyritized rock. Variable pyrite content from 5% to 35% - trace Zn? Correlates (in part) with sheared mineralized zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |        |        |       |          |          |        |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)  
HOLE No.: MM294-5

Page 4

| FROM | TO                                                                                                                                                                                                                                 | LITHOLOGICAL DESCRIPTION | SAMPLE No. | FROM | TO | ASSAYS         |          |        |        |        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|------|----|----------------|----------|--------|--------|--------|
|      |                                                                                                                                                                                                                                    |                          |            |      |    | WIDTH Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (%) |
|      |                                                                                                                                                                                                                                    | in 294-4.                |            |      |    |                |          |        |        |        |
|      | 102.8                                                                                                                                                                                                                              | 107.6                    |            |      |    |                |          |        |        |        |
|      | Medium greenish, massive, fine grained, synvolcanic felsic intrusive - acicular muscovite phenocrysts (after amphibole?), rare plagioclase. Incipient sericite alteration. Contains a 15 cm screen of altered pyritized host rock. |                          |            |      |    |                |          |        |        |        |
|      | 107.6                                                                                                                                                                                                                              | 108.79                   |            |      |    |                |          |        |        |        |
|      | Cohesive fault gouge and fault breccia. Strongly altered protoliths with 5%-10% pyrite. Contacts 45 degrees to core.                                                                                                               |                          |            |      |    |                |          |        |        |        |
|      | 108.79                                                                                                                                                                                                                             | 111.4                    |            |      |    |                |          |        |        |        |
|      | Fault gouge and breccia within unaltered mafic (intrusive?) lithology. Considerable calcite veining, some brownish weathering after carbonate.                                                                                     |                          |            |      |    |                |          |        |        |        |
|      | 111.4                                                                                                                                                                                                                              | 118.3                    |            |      |    |                |          |        |        |        |
|      | Sheared, greenish, felsic intrusive(?) rock, weak sericite alteration. Shearing commonly follows core. Some sections of cohesive cataclasite. Minor hematitized sections.                                                          |                          |            |      |    |                |          |        |        |        |
|      | 118.3                                                                                                                                                                                                                              | 119.9                    |            |      |    |                |          |        |        |        |
|      | Friable, sheared, pyritized rock. Rare speck chalcopyrite.                                                                                                                                                                         |                          |            |      |    |                |          |        |        |        |
|      | 119.9                                                                                                                                                                                                                              | 130.5                    |            |      |    |                |          |        |        |        |
|      | Hematitized felsic(?) intrusive(?) rock with minor greener, sericitic leucoxene-rich sections with plagioclase phenocrysts. Minor screens of strongly pyritized host rock. 70 cm of cohesive gouge derived from altered,           |                          |            |      |    |                |          |        |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)

HOLE No.: MM294-5

Page 5

| FROM  | TO    | LITHOLOGICAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SAMPLE No. | FROM   | TO     | WIDTH | ASSAYS   |          |        |        |        |
|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|----------|----------|--------|--------|--------|
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |        |        |       | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (%) |
|       |       | pyritized rock at basal contact.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |        |        |       |          |          |        |        |        |
| 130.5 | 189.3 | Moderately sericitized and pyritized felsic volcanics; generally less altered and mineralized than the correlative section in MM-294-4. Fairly solid core throughout.                                                                                                                                                                                                                                                                                                                        | 294022     | 167.30 | 168.06 | 0.76  | 272      | 6.2      | 0.02   | 0.58   | 0.99   |
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 294023     | 174.00 | 174.75 | 0.75  | 22       | 3.3      | 0.01   | 0.04   | 0.38   |
| 130.5 | 142.8 | Light green, moderately sericitized, weakly pyritized felsic volcanics, locally strong alteration. Sericite after plagioclase, common leucoxene. Local minor shears. High contrast pseudofragmental textures with dark "fragments" in leucocratic matrix. Generally anomalous disseminated pyrite, locally up to 1/2%. Sharp, weakly sheared basal contact.                                                                                                                                  |            |        |        |       |          |          |        |        |        |
| 142.8 | 149.0 | Medium grey-green, calcite amygdaloidal felsic intrusive lithology (looks like basalt but contains the fine leucoxene characteristic of the intermediate-felsic). Trace hematite in amygdules. Incipient sericite alteration, minor disseminated pyrite. No equivalent unit in 294-4. This is a synvolcanic, largely post-alteration unit as evidenced by chilled contact at base of small similar unit at 150m (or it was less permeable to altering fluids). Sharp unshaped basal contact. |            |        |        |       |          |          |        |        |        |
| 149.0 | 158.0 | Light green, sericitized felsics as 130.5-142.8m. Pseudofragments, some of which have darkened rims. Moderate to strong alteration but only minor disseminated pyrite.                                                                                                                                                                                                                                                                                                                       |            |        |        |       |          |          |        |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)  
HOLE No.: MM294-5

Page 6

| FROM  | TO    | LITHOLOGICAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SAMPLE No. | FROM | TO | ASSAYS |          |          |        |        |
|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|----|--------|----------|----------|--------|--------|
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |      |    | WIDTH  | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) |
| 158.0 | 159.8 | Resedimented, somewhat sorted felsic volcanic breccia, arenaceous, pyritic matrix. A variety of clast lithologies representing most of the alteration styles in this unit. Resembles Buchans-style channel fill. Moderate sericitic alteration, 1-2% disseminated pyrite, local trace Zn-Cu and barite. Minor vitric tuff horizons.                                                                                                                                                                         |            |      |    |        |          |          |        |        |
| 159.8 | 163.2 | Light green, moderately sericitized felsic flow, as units above.                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |      |    |        |          |          |        |        |
| 163.2 | 164.0 | Bedded tuffaceous and cherty tuffaceous horizons, thin bedded. Anomalous disseminated pyrite. Bedding near perpendicular to core.                                                                                                                                                                                                                                                                                                                                                                           |            |      |    |        |          |          |        |        |
| 164.0 | 169.4 | Distinctive altered felsic flow characterized by granular texture developed around perlitic cracks; leucocratic "clasts" in darker matrix. Correlates with a thicker unit in 294-4 around 250m. Moderately strong alteration with 1/2% disseminated pyrite (i.e., less than in 294-4), locally 5%. From 167.3 to 168.06 are several barite veins & veinlets containing minor base metal - the best is a 0.28m massive barite vein containing 3%-5% combined Zn+Pb+Cu. Gradational, arbitrary basal contact. |            |      |    |        |          |          |        |        |
| 169.4 | 189.3 | Altered felsic flow characterized by blotchy, bleached greenish yellow sericite alteration. Common well developed perlitic cracks. Alteration is moderately                                                                                                                                                                                                                                                                                                                                                 |            |      |    |        |          |          |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)  
HOLE No.: MM294-5

Page 7

| FROM  | TO    | LITHOLOGICAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLE No. | FROM   | TO     | WIDTH | ASSAYS   |          |        |        |        |
|-------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|----------|----------|--------|--------|--------|
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |        |       | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (%) |
|       |       | strong. Common veinlets/splashes of barite containing minor Zn-Cu. From 174.0 to 174.75 is a better zone of minor disseminated sphalerite with no veining; specks base metal can be seen throughout. From 177.5m-178.0m is 75% barite veins containing common sphalerite-galena-chalcopryrite containing estimated 2%-4% combined base metals. Beginning at 187.6m, local altered basaltic xenoliths in rhyolite flow. Basal contact is in broken core and has minor associated barite-base-metal veining. Contact is not a significant shear.                                                                                                                                                                                           |            |        |        |       |          |          |        |        |        |
| 189.3 | 230.3 | Moderately altered basaltic rocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 294024     | 196.50 | 197.56 | 1.06  | 266      | 0.9      | 0.02   | 0.09   | 0.10   |
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 294025     | 204.40 | 205.90 | 1.50  | 302      | 1.0      | 0.03   | 0.04   | 0.29   |
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 294026     | 205.90 | 207.40 | 1.50  | 153      | 1.1      | 0.01   | 0.02   | 0.05   |
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 294027     | 207.40 | 208.90 | 1.50  | 332      | 1.2      | 0.01   | 0.02   | 0.05   |
|       |       | 189.3 204.4 Altered basalt characterized by yellow green sericite and common specks of anomalous bright green sericite. Variable pyrite content, generally 1/2 to 1%. Local disseminated chalcopryrite, minor Zn-Pb-Cu in amygdules. Common calcite-(hematite-pyrite) amygdules and common calcite veinlets; lesser silica-calcite-(locally with minor to considerable pyrite-sphalerite) veins/veinlets which resemble the Line 92 occurrence. Local minor barite in calcite veinlets. Foliated with local weak ductile shears at 45 degrees to core. Locally scoriaceous - appears to be altered pillow breccia. Abrupt change in alteration colour on weak ductile shear at base - contact not cored - possibility of some lost core. |            |        |        |       |          |          |        |        |        |
|       |       | 204.4 230.3 Altered, mineralized basaltic pillow lava. Moderately sericitized-pyritized, weakly chloritized; locally strong sericitic alteration. Variable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |        |        |       |          |          |        |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)

HOLE No.: MM294-5

Page 8

| FROM  | TO    | LITHOLOGICAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SAMPLE No. | FROM   | TO     | WIDTH | ASSAYS   |          |        |        |        |
|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|-------|----------|----------|--------|--------|--------|
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |        |        |       | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (%) |
|       |       | pyrite content, average 1%, locally 5%. Common white silica-calcite amygdules and veinlets; a few substantial barite veinlets. Some veinlets have Zn-Pb-Cu as do some amygdules. Assayed sections of this unit contain only slightly more base metal than other sections. Patchy dark chlorite alteration, in part associated with pillow margins.                                                                                                                                                                                                                                                                                          |            |        |        |       |          |          |        |        |        |
| 230.3 | 260.3 | Synvolcanic intrusive lithology, looks convincingly diabasic but may be a variety of the felsic member (contains fine leucoxene dust, is weakly sericitized throughout and contains sericitized plagioclase phenocrysts). Light to medium green, a few calcite amygdules. Minor barite veining is subsequently cut by later calcite veining. Very little pyrite. Massive, fairly good coring. Upper contact chilled, not sheared, at 60 degrees to core. Contains a screen of strongly sericitized, moderately pyritized, anomalous green basalt with minor sphalerite in amygdules from 236.9m to 239.6m. Irregular chilled basal contact. |            |        |        |       |          |          |        |        |        |
| 260.3 | 314.0 | Altered basalts with sections of mafic-intermediate lithologies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 294028     | 261.50 | 263.20 | 1.70  | 69       | 0.8      | 0.02   | 0.07   | 0.06   |
|       |       | 260.3 263.3 Moderately strongly sericitized basalts. Minor disseminated and veinlet sphalerite associated with barite-calcite. Chilled, barren, 10 cm intermediate-felsic dykelet at base; no substantive shear but a significant weakening of alteration in next unit.                                                                                                                                                                                                                                                                                                                                                                     | 294029     | 263.30 | 264.80 | 1.50  | 14       | 0.7      | 0.07   | 0.04   | 0.06   |
|       |       | 263.3 291.5 Weakly to moderately chloritized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |        |        |       |          |          |        |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)  
HOLE No.: MM294-5

Page 9

| FROM | TO         | LITHOLOGICAL DESCRIPTION                                                                                                                                                                                                                                                                                        | SAMPLE No. | FROM | TO | ASSAYS |          |          |        |        |        |
|------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|----|--------|----------|----------|--------|--------|--------|
|      |            |                                                                                                                                                                                                                                                                                                                 |            |      |    | WIDTH  | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) | Zn (%) |
|      |            | and sericitized basalts with common calcite amygdules and minor carbonate veinlets. Contains common specks and veinlets Zn-Pb-Cu over initial 1.5m, as in previous holes. Below this, local amygdule and veinlet base metal-barite. Diabase from 271.8 (shear) to 274.7 and from 289.4-290m.                    |            |      |    |        |          |          |        |        |        |
|      | 291.5      | 301.6                                                                                                                                                                                                                                                                                                           |            |      |    |        |          |          |        |        |        |
|      |            | Moderately sericitized and chloritized rock of possible intermediate composition (lithogeochem sample at 294.5m). Anomalous disseminated pyrite, locally 1%. Local traces chalcopyrite-sphalerite-galena-barite in voids or disseminated. Voids are irregularly shaped, not spherical and common as in basalts. |            |      |    |        |          |          |        |        |        |
|      | 301.6      | 310.7                                                                                                                                                                                                                                                                                                           |            |      |    |        |          |          |        |        |        |
|      |            | Moderately sericitized, chloritized, silicified basaltic rocks with calcite amygdules containing trace base metal-barite-pyrite. Gradational basal contact.                                                                                                                                                     |            |      |    |        |          |          |        |        |        |
|      | 310.7      | 314.0                                                                                                                                                                                                                                                                                                           |            |      |    |        |          |          |        |        |        |
|      |            | Moderately sericitized mafic-intermediate flow and hyaloclastic breccia, as 291-301m. One 2mm wide Zn-Pb-Cu veinlet.                                                                                                                                                                                            |            |      |    |        |          |          |        |        |        |
|      | 314 metres | EOH, 78 core trays                                                                                                                                                                                                                                                                                              |            |      |    |        |          |          |        |        |        |
|      |            | Tropari tests:<br>at 194 metres: 42 degree dip at 138 degree true azimuth<br>at 314 metres: 40 degree dip at 143 degree true azimuth<br>Hole is lined with large PVC pipe (59mm OD, 50mm ID) to 305m.                                                                                                           |            |      |    |        |          |          |        |        |        |

HOLE No: MM294-5

# Phelps Dodge Corporation of Canada

## DIAMOND DRILL LOG

PROPERTY: Mary March (294)  
HOLE No.: MM294-5

Page 10

---

| FROM | TO | LITHOLOGICAL DESCRIPTION | SAMPLE No. | FROM | TO | ASSAYS |          |          |        |        |
|------|----|--------------------------|------------|------|----|--------|----------|----------|--------|--------|
|      |    |                          |            |      |    | WIDTH  | Au (ppb) | Ag (ppm) | Cu (%) | Pb (%) |

### Assay Samples

|        |       |        |
|--------|-------|--------|
| 294019 | 101.9 | 102.8  |
| 294020 | 107.6 | 108.79 |
| 294021 | 118.3 | 119.9  |
| 294022 | 167.3 | 168.06 |
| 294023 | 174.0 | 174.75 |
| 294024 | 196.5 | 197.56 |
| 294025 | 204.4 | 205.9  |
| 294026 | 205.9 | 207.4  |
| 294027 | 207.4 | 208.9  |
| 294028 | 261.5 | 263.2  |
| 294029 | 263.3 | 264.8  |

### Lithogeochem samples

136.8  
201.5  
250.2  
282.2  
294.5

### DOWN-HOLE SURVEY DATA

| DEPTH  | INCLINATION | BEARING |
|--------|-------------|---------|
| 194.00 | -42.00      | 188.00  |
| 314.00 | -40.00      | 193.00  |