



UNITED VERDE MINE - UNDERGROUND DRILL CORE SAMPLING FOR PETROGRAPHIC STUDY..

| LEVEL  | DRILL #  | FOOTAGE                  | ROCK DESCRIPTION                        | LOCN RELATIVE TO MASSIVE SULPHIDE                     | %CHLORITE ALT   | CHLORITE TYPE OR COMPOSITION                |
|--------|----------|--------------------------|---|---|-----------------|---|
| 800 L  | 13 E 1   | 350'                     | Quartz Porphyry                         | 650' South & on same stratig horizon                  | Nil             | Sericite schist w chlorite frag             |
|        | 2        | 285'                     | Rhyolite Flow - "gpx"                   | 450' " " " "  | "               | Interstitial chlorite & sericite inclusions |
|        | 2        | 330'                     | Quartz Porphyry                         | 450' " " " "  | "               | "   |
|        | 13 G 1   | 213'                     | Volcanic Tuff - "gpx"                   | 300' " " " "  | "               | Chlorite Schist                             |
|        | 2        | 174.2'                   | " " " "                                 | 200' " " " "  | "               | Chlorite Schist                             |
|        | 2        | 214.4'                   | Rhyolite Tuff                           | 200' " " " "  | "               | Chlorite Schist                             |
| 1500 L | 15 T 3   | 145'                     | Quartz Porphyry                         | 40' SE part of Black Schist                           | "               | Amesite                                     |
|        | 15 T 3   | 170'                     | " " " "                                 | 80' " " " "   | "               | "   |
| 1950 L | 13 P 1   | 122'                     | Tuffaceous Sed                          | 150' South of edge of Black Schist                    | "               | Chlorite Schist                             |
|        | 169'     | Quartz Porphyry          | 140' " " " "                            | "   | Amesite         |   |
|        | 194'     | Volc Qtz Sed             | 130' " " " "                            | "   | Chlorite Schist |   |
|        | 258'     | " " " "                  | 130' " " " "                            | "   | Chlorite Schist |   |
| 2400 L | 17 2H 1  | 1044'                    | "Anesite"                               | Fine-grained Gabbro in Syncline - East of Verde Fault | "               | Chlorite Schist                             |
|        | 13 R 5   | 370'                     | Quartz Porphyry                         | 200' South & part of Black Schist                     | "               | Mainly Clinoclone                           |
| 2700 L | 15 T 3   | 145'                     | Quartz Porphyry                         | 40' SE part of Black Schist                           | "               | Amesite                                     |
|        | 15 T 3   | 170'                     | " " " "                                 | 80' " " " "   | "               | "   |
| 3000 L | 11 U 1   | 325'                     | Tuffaceous Sed "gpx"                    | 35' South & part of Black Schist                      | 88%             | Amesite                                     |
|        | 16 T 1   | 29'                      | " " " "                                 | 200' " " " "  | 90%             | "   |
| 3300 L | 11 2A 5  | 540'                     | Gabbro                                  | 1150' North & Stratigraphically above 1000'           | "               | Chloritized Breccia                         |
|        | 1000'    | Volcanic Sed "gpx"       | 1000' " " " "                           | "   | 18%             | Chlorite Schist?                            |
| 3450 L | 13 W 2   | 60'                      | Tuffaceous Sed "gpx"                    | 380' S-SE & part of Black Schist                      | 70% Chl. Schist |   |
|        | 232'     | Quartz Porphyry          | 460' " " " "                            | "   | 88%             |   |
| 4500 L | 42B-3    | 555'                     | Dacite Tuff "gpx"                       | 100' Stratigraphically above but in contact           | 22% Chl. Schist |   |
|        | 575'     | " " " "                  | 75' " " " "                             | "   | 3%              |   |
| 42B-5  | 928'     | Rhyolite Tuff            | 100' West & below ms                    | "   | 40%             |   |
|        | 958'     | Lithic Dacite Tuff "gpx" | 100' NW & 30' above contact             | "   | 32%             |   |
| 2400 L | 17 2H 2  | 182'                     | Quartz Porphyry "gpx"                   | Not Applicable; East of Verde Fault..                 | "               |   |
|        | 127'     | " " " "                  | " " " "                                 | "   | "               |   |
| 3000 L | 97 Z 1   | 403'                     | Tuffac. Sed. "gpx"                      | Chl. Schist directly west & under ms.                 | 80% Chl. Schist |   |
|        | 407'     | " " " "                  | " " " "                                 | "   | 38% Chlorite    |   |
| 97 Z 2 | 495'     | X'l tuff of "gpx"        | Locally under ms lens & S of main mass. | "   | 85% Chl. Schist |   |
|        | 462'     | " " " "                  | " " " "                                 | "   | 34% Chlorite    |   |
| 97 Z 3 | 524'     | " " " "                  | Directly W & stratig below ms.          | "   | 58% Chlorite..  |   |
|        | 1043'    | Rhyodacite Porph "gpx"   | 180' East                               | "   | 5% Chlorite     |   |
| 98 Z 3 | 1132'    | Dacite "gpx"             | NA. (Within anticline btw UV & Haynes)  | "   | "               |   |
|        | 1180'    | Qtz-chlor-phylite "gpx"  | " " " "                                 | "   | 25%             |   |
| 3000 L | Haynes 6 | 171'                     | Andesitic dike                          | "   | "               |   |
|        | 161'     | Dacite Porph. "gpx"      | "                                       | "   | "               |   |
| 7 17A  | 249'     | X'l tuff-gpx             | 10' W & below ms.                       | "   | 22%             |   |
|        | 249'     | Dacite - Gabbro          | "                                       | "   | 30%             |   |
| 8 16A  | 169'     | Tuff Sed of "gpx"        | Directly E & above ms..                 | "   | 48%             |   |
|        | 169'     | Lithic tuff "gpx"        | In Black Schist under ms.               | "   | 68%             |   |
| 16 7B  | 78'      | Quartz Porph. "gpx"      | 10-20' W & below ms                     | "   | 5%              |   |
|        | 17 122.0 | Rhyolite "gpx"           | "                                       | "   | "               |   |

VARIOUS LEVELS AT THE UNITED VERDE MINE at  
JEROME, ARIZONA.

SHOWING:  
1. Summary of Pertinent Geology  
2. Principal Structural Interpretations  
3. Locations of Petrographic Examinations Relative to General Geology.  
Summary of all Underground T/S Tabulated above

PHELPS DODGE CORPORATION - WESTERN EXPLORATION OFFICE

C-69  
GEOLOGICAL COMPILATION  
SUPPLEMENT  
A

scale 1 inch = 400 feet

