

Characteristics of rocks of the Lower Talnakh intrusion (Drill hole SG-28)  
 [See Tables 1 and 2 of Resource\_Geology.pdf for explanations]

| Sample number  | Rock type and composition of olivine                                   | Structures, length of PI (mm) phenocrysts characteristics              | Generations, morphological types, and modal abundances of minerals  |
|--|--|--|---|
| 2005.3<br>2013.5   | Olivine-olivine-bearing gabbrodolerite                                 | Poikilophitic. Length of PI = 0.3-2.0 Phenocrysts:<br>$(Ol_1^1)_{0-2}$ | $(Ol_2^6)_{10-12} (Pl_2^{4,5})_{60} [(Au^3)_{15-20} (Au^2)_{5-10}]_{22-30} (Bi)_{0-Ohe}$<br>$[(Tm)_{1-3} (Mt)_{0-1} (Il)_{0-2}]_{3-4} (Sul)_{0-7}$  |
| 1885<br>1886.4<br>1890.1<br>1899.6<br>1909.1<br>1924.3<br>1976.8 | Olivine-picritic like gabbrodolerite<br><br>Olivine<br>Fo = 69.8-83.3% | Ophitic, very, very seldom poikilophitic length of PI = 0.2-3.0        | $[(Ol_1^{1,2})_{?-40} (Ol_2^6)_{0-?}]_{30-40} [(Pl_1^{1,2,3})_{0-10} (Pl_2^4)_{20-30}]_{25-37}$<br>$(Au^2, \text{very seldom } 2-3)_{15-35} (Bi)(\text{glass, replaced by Cl + Amf})_{0-7}$<br>$(Tm)_{0-3} (Mt)_{Ohe-3} (Il)_{Ohe-2} (Sul)_{Ohe-5}$ |
| 1931.3<br>1941.75<br>1955.7                                      | Picritic gabbrodolerite<br><br>Olivine<br>Fo = 77.1-82.5               | Ophitic hypidiomorphic. Length of PI = 0.3-3.0                         | $(Ol_1^{1,2})_{50-60} [(Pl_1^{1,2,3})_{Ohe-7} (Pl_2^4)_{15-20}]_{16-27} (Au^2)_{15-20} (Bi)_{1-4}$<br>$(Mt)_{1-2} (Il)_{0-2} (Sul)_{2-4}$   |
| 1986.1   | Olivinite<br><br>Olivine<br>Fo = 80.1-83.9                             | Hypidiomorphic<br>Length of PI = 0.5-4.0                               | $(Ol_1^{1,2})_{70} [(Pl_1^3)_{1-3} (Pl_2^4)_{15}]_{16-18} (Au^2)_{15} (Bi)_1 (Mt)_{Ohe} (Tl)_{1-2} (Sul)_2$   |