

PH01-04

0-3.15m OVERBURDEN

3.15-68.35m **PELITE** - not shaly (psammite); pinkish-grey, fine-medium grained, laminated (50-60CA), cordierite-rich; minor to <1% sulfides (very fine po along foliation; qtz veins throughout parallel to foliation, qtz veins are approximately 1mm to 1 cm wide 50-60CA

Deformed qtz veins:

14.90-15.27m 50-60CA, pinched/boudinaged qtz vein with minor sulfides

5.17m 9 cm wide qtz vein, 40-50CA, with minor po

5.14m 2.5 cm wide qtz vein, 50CA, with po

8.32m 8cm wide qtz vein with alteration, 60CA

5.30m very thin po along lamination (50CA) crosscut by another set of thin po lam.(50CA)

At ~15.00 m continuation of fine-grained cordierite-rich pelite with ~1-2% very thin laminations of po along foliations (60CA @ 15.74m), fractured core throughout especially between 23.72-26.55m (core loss); fractured angles range between 20-60CA; py-po mineralization

Qtz veins continue-top contact 10CA; bottom contact ~50CA

At 22.69-23.63m - Coarse-grained qtz veining with pelite breccia, minor alteration and minor sulfides (po, py, trace cpy)

24.44m - 2.5 cm wide qtz vein @ 60-70CA with po

23.79m 5 cm wide qtz vein and alteration 80-90CA, po

Continuation of cordierite-rich pelite with qtz veins and zones throughout; ; ~1-2% fine laminations of po along foliations; cordierite lie roughly along foliation, in other places do not

24.48m 8 cm wide alteration zone which includes crosscutting po stringers, 2x1 cm wide qtz vein and siliceous alteration with fine-grained po-py within alteration zone; qtz vein at 90CA, alteration band ~80CA

Alteration vein/band @ 24.88m (70CA), ~1cm wide and with po within

25.16m 2 cm wide qtz vein @ 70-80CA, minor po-py (possibly arsenopyrite or graphite)

26.36m Alteration with ~1% py-po, po along foliation

Few localized alteration zones: fine-grained zones or "skarn" parallel to foliation and qtz veins throughout; some thin qtz veins are pinched and slightly folded (ptygmatic) and with/without garnet
Foliation 50Ca @ 29.80m; 50CA @ 36.83m

Foliation is defined by aligned rounded qtz, cordierite and with/without very thin po(1-2%)

31.64m - irregular 4 cm wide qtz vein 60CA with dark green alteration and <1% blebs and diss po, po also on pelite; po in pelite is folded around qtz vein

34.17m 1-4cm wide qtz vein (50CA) with phlog and minor po

37.00m 7 cm wide "skarn" with garnet (sheared and pink colored), green alteration, fine-grained, "bleached" appearance 60CA ~1% diss po

38.00-88.07m Qtz veins with minor green-grey colored inclusions <1% po (40-60CA)

38.25-38.50m Qtz vein with minor green-grey inclusions, <1% po, 60CA

Po-bearing pelite between qtz veins

Foliation 49.00m (50CA) po and cordierite alignment, some po

~39.00-50.00m most qtz veins <1-10cm wide (50-60CA)

eg. 39.85 - 12 cm wide qtz vein (40-50CA) with po bleb within and in surrounding pelite

Sample 21512 includes another qtz vein 50CA ~1 cm wide

40.38-41.28m Qtz veins with po blebs and green alteration; po in pelite and alteration "skarn" bands within pelite, all veins, fol, alteration bands are ~50-60CA

Two 1-2 cm wide po-rich foliations within

40CA @ 48.20m, next to "skarn"; 50CA @ 49.65m

52.00-53.90m Layer of irregular, pinched folded qtz veins and blebs; locally cordierite-rich in fine-grained dark grey-brown pelite; overall ~1% fine-grained po

Qtz veins: 52.77m 60CA

53.25m 40CA (opposite direction from above)

53.77m 20CA

After this, pelite is more fine-grained with only localized cordierite-rich zones and a few localized "skarn" layers; foliation 50CA (@55.75m); a few coarser grained (medium-grained) layers of metasedimentary rock within (psammite?)

60.78m 18 cm wide qtz vein; top contact is sharp and 60CA; lower contact is irregular; mixing with pelites @~30CA, minor garnets (~1-2mm)

61.04m 1.5 cm wide qtz veins with green alteration (50CA) with minor garnet

61.34m Cordierite-rich pelite with minor qtz veins and "skarn" layers and thin ~10cm max fine-grained cordierite-poor, po-rich pelite layers; foliation 50CA @ 62.55m defined by foliation

63.03m 4 cm wide pinched, irregular qtz vein (40CA) with <1% po, and green alteration

64.20-64.33m Qtz vein, upper contact 40-50CA, green altered pelite within, ≤1%po, py as small blebs and along microfractures; lower contact 70CA

65.05m 3 cm wide qtz vein, irregular and fractured, with minor garnet, 40CA with po and py blebs and along fractures

66.20-67.50CA Irregular, pinched, folded boudinaged qtz veins throughout ± garnet, minor sulfides (po), still in cordierite-rich pelite ± "skarn" bands

Foliation @ 68.05m 50CA

68.35 - 105.45m **DIABASE DYKE** - fine-grained grey-dark grey with irregular (anhedral-subhedral) plagioclase (0.5 cm max), unfoliated, homogeneous texture; sharp upper contact 50CA, trace diss py; small (1-2mm) rounded qtz (3% max) which decrease to nil downhole; fine-grained pyroxene, magnetic

91.60m to EOH rounded and elongated (aligned) fine-grained diabase xenoliths with plag porphyry within porphyritic diabase

96.73-96.93m Subophitic medium-grained gabbro "xenolith" or dyke, rounded top contact 30CA, bottom is irregular 20-60CA, trace diss po

105.45m EOH