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PH01-06

0-5.25m **OVERBURDEN**

5.25-8.10m **DIABASE DYKE** - grey, fine-grained, uniform texture, lower contact 20CA, upper contact undistinquishable

8.10-16.42m **FELSIC VOLCANIC** - greenish-grey color, siliceous-qtz rich zones, veins and irregular patches throughout with/without po-py; qtz veins are also pinched, boudinaged and folded in places (eg qtz vein ~1-1.5 cm wide @ 35CA 15.74m with py in cracks in qtz and along contacts, also po, cpy, slightly boudinaged)
-greenish alteration (chlorite and sericite), local patches of cordierite and garnet
-Sulfide mineralization up to 10% po-py, sph, trace cpy throughout; sph is generally thin (<0.5 cm wide) layers (30-50CA) and locally folded; po-py generally net-pseudo-net textured sulfides in layers; sulfides wrapping around qtz veins; sulfide layers are parallel to subparallel to foliation; py also along fracture planes and sometimes cubic
-8.10-9.80m Irregular thin py veins with net-pseudo net textured diss py-po, trace cpy, sph?; lower contact 40CA with greenish grey felsic volcanic and a few <0.5cm wide sph layers (~30-50CA) which are irregular and discontinuous and folded in places
10.66-11.00m Contact (40CA) with darker felsic volcanic with 1-2mm wide py (often cubic) with overall sulfides ~5%
11.00-16.42m Lighter colored felsic volcanic with cordierite locally, trace garnets
Increasing sulfides (diss po-py, possibly sph) downhole
At contact with diabase below the sulfides increase to 15% wrapping around dark altered "baked" felsic volcanic

16.42-19.30m **DIABASE DYKE** - sharp upper contact (20@)CA) with a discontinuous band of quartz at outer rim of diabase (up to 5 cm wide)±po, py, dark alteration (cordierite?)
Sulfides with diabase is trace and very fine-grained diss py, thin py veins (eg @ 16.90m 60CA)
Diabase has a chill margin (medium grey color with very small (~1mm) rounded white fsp porphyry; unfoliated, trace weathered olivine (~1mm); slight increase of grain size downhole; minor epidote alteration; sharp lower contact (60CA) with siliceous felsic volcanic, increase in po in diabase at contact

19.31-21.33m **FELSIC VOLCANIC** - as above, light grey siliceous, foliated (60CA @19.83m); 1-2% fine-grained diss py, bleb po along foliations; local patches/zones of dark green alterations (of amphibole?) Along foliation; trace garnets
Qtz veins throughout (eg 24.56-24.62 60CA ~1% diss py)
20.33-21.58m Tonalite: irregular with gradual contact with felsic volcanic
Foliation: 20.55m 10CA chlorite alteration in felsic volcanic
22.85m 50CA
25.25m 40CA
26.30m 40CA
Increasing diss-pseudo net py-po

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23.95-24.30m **FELSIC INTRUSION** with fine-grained unfoliated qtz-Kfsp-rich, light pink to tan color; top contact 60CA, lower contact 40-50CA, irregular with a Felsic volcanic Xenolith with py mineralization @ 23.98-24.08m
24.90m A 5 cm wide folded qtz vein 20CA
25.63m Qtz vein/layer 60CA ~1cm wide with py, po
27.60m 35CA contact with above: fine-grained (phlog±sericite rich) FELSIC VOLCANIC with fine grained diss po; qtz veins (40-50CA, 1-5cm, irregular)
28.24-29.28m Qtz vein: upper and lower contacts 40CA, minor sulfides with chlorite alteration

29.28-33.36m **DIABASE DYKE** Medium to dark grey, fine-grained with rounded plag por (1-3mm); cordierite rich, minor epidote with qtz-rich stringers; upper contact 40CA, lower contact 25CA; finer grain size near contacts (chill?); <1% diss py throughout

33.36-38.23m **FELSIC VOLCANIC** Bleached-tan-beige-green fine-grained, siliceous with qtz layers, obscure darker layer, overall minor sulfides, foliation 30CA @ 33.65m, 30CA @ 34.70m
34.45-34.63m Mottled texture of felsic volcanic, darker, rounded irregular structures surrounded by lighter colored "groundmass", trace cpy, po, py within dark layers
35.62-35.90m Mottled texture as above along a band of green alteration, mica-rich with po-py, trace cpy 10-15CA 1-1.5cm wide
36.53-37.40m Irregular folded layer with sph±diss py, trace cpy, 30-50CA

38.23-38.68m **DIABASE DYKE** Top contact 40CA, bottom contact 30CA; very fine-grained (aphanitic) dark grey-black uniform texture

38.68-40.45m **FELSIC VOLCANIC** as above - light green-grey (bleached) with coarse-grained qtz veins throughout, trace diss py, siliceous; foliation 60CA @ 40.45m; qtz veins are thin <2 cm wide @ 20-50CA with minor py and green alteration

40.45-41.50m **DIABASE DYKE** - sharp top and bottom contacts 10CA; very fine-grained (aphanitic), dark grey-black as above; py along fractures, trace diss <1% py throughout; few rounded plg porphyry

41.50-41.70m **FELSIC VOLCANIC** - as above; bleached, grey-green, sericite, chlorite alteration (?), siliceous (yet scratchable), ≤1% diss py

41.70m **EOH**