CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: 80-A-01

Fabric Orientation Diagram:

Project: Pelmac

Location: Anise Claims

Claim: Anise 24

Terr. Plane Co-ords.: 61°37'N Latitude N

132°43'W Longitude E

Grid Co-ords.: Line 104, +28W

Inclination: -90°

All symmetry determinations looking _____ with _____ dipping _____ with dip azimuth _____.

Elevation: 4000 feet

Total Depth: 676 feet (205.1 m)

Purpose: To test geochemical anomaly.

Logged by: L. Pigage and J. Mortensen Date(s) Logged: August 30 - September 7, 1980

Drilling Contractor: Arctic

Core:	Size	From	To	Collar Cased and Capped: ____
	BQ	20	676	(feet)

Started: August 27/80 Completed: August 30/80

LITHOLOGIC LOG

DDH 80-A-01

	0.0 - 7.5	Triconed in overburden.
1.	7.5 - 9.3	Pale grey, fine to medium grained, locally slightly calcareous, slightly pyritic quartzite with medium to dark grey, slightly carbonaceous phyllitic partings. Structure: at 7.8 m S_0/S_1 69^o to core axis 8.3 m S_2 35^o to core axis
2.	9.3 - 11.5	Banded pale to medium grey moderately calcareous phyllitic quartzite and medium green chloritic calcareous quartzite. Irregular blebs of pyrite and pyrrhotite. Structure: 9.9 m S_1 at 55^o
3.	11.5 - 33.1	Highly magnetiferous serpentinite and metabasite. Section from 11.5 to 24.4 m consists of serpentinite with magnetite + calcite (+ minor hematite) intergrowths occurring as irregular zones and broad bands. Irregular zones, bands, and stringers of pyrite are also present. Section from 24.4 - 32.7 m is slightly to moderately calcareous, pale to dark green metabasite; fine-grained and non-magnetic. Section from 32.7 - 33.1 m is banded and mottled medium green and brownish grey, noncalcareous calc-silicate. Structure: at 17.6 foliation at 65^o 25.8 " 33^o 31.2 " 48^o
4.	33.1 - 39.7	90% of section is highly pyritic and marcasitic massive quartz. Remainder of the section is noncalcareous pale to dark grey phyllite.
5.	39.7 - 46.5	Thinly banded pale to dark grey phyllite, becoming calcareous towards the bottom of the section. Some bands are very slightly brownish (biotitic?). Structure: 41.7 m S_1 at 50^o S_2 at 50^o(opposite direction) 46.0 m S_1 at 51^o

6. 46.5 - 51.9 — Thinly interbanded black phyllite and pale grey quartzite. Abundant narrow carbonate stringers.

Structure: 50.1 m S_1 at 42^o

7. 51.9 - 62.5 — Pale grey to grey green muscovite-chlorite-quartz-feldspar phyllite, locally with traces of biotite. Noncalcareous, with trace amounts of carbonate in narrow stringers. Trace of galena in a stringer at 58.2 meters.

Structure: Abundant gouge 51.9 to 54.7 m
at 56.7 S_1 at 56^o
at 61.4 S_1 at 43^o

8. 62.5 - 68.3 — Gouge zone. Breccia fragments of the above material with minor amounts of dark grey phyllite fragments.

9. 68.3 - 72.2 — Pale grey muscovite-quartz-feldspar-chlorite phyllite. Similar to Unit #7, but with less abundant chlorite. Non-to slightly calcareous with carbonate also present in narrow stringers. Minor amounts of pyrite as stringers.

Structure: 69.7 m S_1 at 75^o
72.0 m S_1 at 52^o
later brittle fracture at 80^o in opposite direction

10. 72.2 - 75.3 — Thinly banded dark grey to black, noncalcareous, slightly pyritic phyllite. Abundant narrow quartz stringers (or coarse grained siltstone bands) parallel to foliation. Quartzose bands contain disseminated pyrite. Pyrite also occurs disseminated in the black phyllite.

Structure: 73.7 m S_1 at 74^o

11. 75.3 - 76.8 — Medium grey, slightly to highly pyritic, carbonaceous phyllite. Pyrite occurs as disseminations, disrupted narrow bands, and with quartz and carbonate as stringers.

Structure: 75.8 m S_1 at 74^o
later S_2 at 51^o (same direction)

12. 76.8 - 100.3

Dark grey to black, noncalcareous, slightly pyritic siliceous phyllite with abundant non to slightly calcareous pale grey siltstone interbands. Also present are several narrow (~0.2 m) dark grey quartzose bands.

Structure: 82.9 m S_1 at 72^0
87.4 - 96.6 S_1 parallel to core axis
92.5 m S_1 at 66^0

13. 100.3 - 108.7

Slightly to highly calcareous thinly laminated pale grey siltstone and dark grey phyllite - siltstone makes up ~ 60% of the section. Parts of the highly calcareous siltstone is approaching a phyllitic marble in composition.

Structure: 100.3 - 103.5 core is broken, much quartz veining
103.7 S_1 at 44^0
S_2 (brittle kink) at 48^0
S_1 and S_2 at ~ 65^0 to each other
105.5 S_1 at 55^0
108.1 S_1 at 68^0

14. 108.7 - 109.1

Chlorite-muscovite-quartz ± feldspar phyllite. Fine-grained, pale grey-green. Finely disseminated pyrite and discontinuous pyrite laminae. Trace of calcite on stringers.

15. 109.1 - 121.7

Moderately to highly calcareous thinly laminated pale to dark grey phyllite. Abundant quartz-calcite veining. Pyrite is present locally as blebs and discontinous stringers.

Structure: 111.8 m S_1 at 67^0
116.2 m S_1 at 68^0
119.2 m S_1 at 64^0

16. 121.7 - 122.0

Slightly pyritic, noncalcareous quartz-feldspar-muscovite-chlorite phyllite. Medium grey-green. Calcite in fractures.

17. 122.0 - 140.8

Thinly laminated, highly calcareous pale and dark grey phyllites. Pale grey bands tend to be more calcareous. Pyrite occurs disseminated and as narrow often discontinuous bands and stringers. Minor quartz-calcite veining. Trace amounts of biotite are present in some bands at 125.4 meters and 129.4 meters.

Structure: 123.5 m S_1 at 44^o
128.3 m S_1 at 70^o
131.4 m S_1 at 69^o
134.4 m S_1 at 66^o

18. 140.8 - 143.0

Non to moderately calcareous, thinly laminated, pale and dark grey phyllites. Minor brecciation and abundant quartz veining present. Minor discontinous narrow bands of pyrite and pyrrhotite in the interval 141.8 - 142.0 m.

Structure: 141.9 m S_0/S_1 at 57^o

19. 143.0 - 152.8

Moderately to highly calcareous, thinly laminated, pale and dark grey phyllites. Similar to Unit #17. Locally slightly biotitic with books of biotite also present in quartz veins in the interval 149.1 - 149.6 m.

Structure: 143.6 m S_1 at 64^o
146.2 m S_1 at 52^o
149.3 m S_1 at 63^o

20. 152.8 - 160.3

Moderately to highly calcareous thinly banded pale and dark grey phyllite as above. Locally brecciated. Abundant pyrrhotite and pyrite and traces of chalcopyrite associated with quartz and quartz-carbonate veins. Pyrrhotite and chalcopyrite are early phases; they are cut by later pyrite stringers.

Structure: 156.7 m S_1 at 52^o
158.5 m S_2 at 58^o

21. 160.3 - 167.9

Non to slightly calcareous banded pale to dark grey phyllite as above with much brecciation (quartz and quartz-carbonate matrix) and abundant pyrrhotite and pyrite w/ trace amounts chalcopyrite. Section from 166.4 - 167.3 m is 70% sulphides (primarily pyrite) as fine grained breccia matrix.

Structure: 163.7 m S_1 at 50^o

22. 167.9 - 174.1

Moderately to highly calcareous, thinly laminated pale to dark grey phyllite. Abundant quartz carbonate veining locally with pyrite and pyrrhotite. Much brecciation and irregular deformation of laminations.

Structure: 171.1 m S_1 at 52^o
173.7 m S_1 at 45^o

23. 174.1 - 205.1

Moderately to highly calcareous, thinly laminated phyllite as above, with rare interbands to 20 cm thick of calcareous biotitic, pale brown metatuff (?) with blebs of pyrite and minor pyrrhotite. The entire sequence contains 2 - 3% pyrite as disseminations and narrow discontinuous bands.

Structure: 175.2 m S_2 at 43^o
182.6 m S_1 at 64^o
186.4 m S_2 at 45^o
188.4 m S_2 at 68^o
192.1 m S_1 at 50^o
195.2 m S_1 at 58^o
201.1 m S_2 at 52^o
203.9 m S_1 or S_2 at 43^o

205.1 END OF HOLE