

4520-4700 Schist of Upper Narrows.

Gray to dark gray quartzite with graphitic biotite schist to phyllite on bedding surfaces.

Minor amounts of dolomite cement? Pyrite present in small amounts.

Core 4686-4698 contained vugs with calcite and quartz crystals.

Fractures contained quartz crystals and massive quartz. Iron staining on everything.

⁴⁹³⁰
4700-~~4978~~ Elba Quartzite

Quartzite, clean white to clear grains, micaceous, minor biotite, pyrite, ~~and~~ quartz crystals and magnetite present.

4930-4989

~~4978-5007~~

(Adamellite) Quartz Monzonite

Gneissic, light greenish gray in color. Chlorite biotite, trace of monazite and quartz.

H.R. Covington

Field Notes

March 25-31 1975

Covington

RR GE #1 4686'-5007'

RR GE #1

March 25 1975

4682-4692

Silty gray to greenish
sandstone. Fairly well sorted
with quartz in both matrix
and at grain contact
dip angle $< 15^\circ$

Some thin laminae
of quartzite
with quartz schist.

Few small vugs with calcite
Xfts. Tan shaly quartzite
and calcite.

Chert, nodules
placoid.

Block - quartz phyllite.

March 26, 1915

Cone and cutting south of ...

- 4688 Cone Dressed in dust
- 4670 } Cutting One bank - 11/1
- 4660 } Cutting One bank - 11/1
- 4655 } Cutting One bank - 11/1

4686-
4698

Gray Argillite, calcite and pyrite
& dolomite?

Soft to brittle - etc. ...
Lenses some ... and ...
in places ...
The matrix is white ...
in places ...

Quartzite is gray ...
... white to ... and ...
...
On north side ...
phyllite.

Dolomite? white to ...
... powder with ...
... slight reaction to ...
...
... in ...

minor ...
chalcophite scattered throughout

March 26 1972

210 GE #1

4626-4628 cont

Co. parting surface with small
pieces of quartz, albite, calcite,
and fine quartz etc. almost
always stained red. This
zone may form 40% of the
most probably iron.

Small pieces of material from
core contain calcite, albite and
etc. etc. There are also some
pieces which are very thin and
are of the same material.

In the cuttings just above of
pyrite is more abundant and
muscovite is abundant.

X-ray Qtz, Feld, serpentine? etc.
mica, trace of dolomite
pyrite is present in hard zone.

March 29 1975 R26711

Begin drilling 7:45 a.m.

Elba
4700'

log time approx. 45 min.

Quartzite, white, massive, fine grained, minor biotite, free and small, cuttings less than 1/8" diam. slight reaction to HCl. clear qtz xths which indicate we are on a thin fracture containing xths.

- 70% Quartzite, micaceous, white
- 10% Quartzite, biotite, white
- 10% White, mica, calc. xths, etc.
- 5% Clear quartz grains and xths
- 5% Hydr. chlorite, calc. xths, etc. - contains some mica.
- Tuff and Tjs chips.

4700-
4710'

Quartzite, micaceous, white, 70%
few percent biotite, slight reaction
and magnetite. 90% Quartzite, white
to clear gray and clear xths,
slightly micaceous on surface.
10% Feldspar, white

March 29, '75 P. 257

4710'-
4720' Quartzite, white, gray, brownish and greenish, micaceous with biotite - 20% white and clear Qtz grains and xls. 5% feldspar, minor chlorite and magnetite. essentially same as above. slightly calcareous

4720'-
4730' Quartzite, white, gray, brownish and greenish. Contains small pieces of schist which are part of the same parting seen in piece of chlorite. 10% white quartz and feldspar, 10% chlorite grains and feldspar. minor magnetite. good decay color, when wet more gray to tanish gray when dry.

4730'-
4740' Quartzite, white 75% mica present down considerably, everything else the same as above.

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4740-
4750 Quartzite, clean white to grey
20% 10% Garnet with mica
5% phyllite, grey natural
few grains of pyrite
On Mica, tan, greenish white
possibly mica
everything reacts to HCl, and
has coating on grains, surfaces
also has bright green
grey-green color.

4752-
4760 Quartzite and quartz grains
white to clean 80% 5% quartz
with mica, 5% Turf (Carnotian)
5% white feldspar grains
5% Pyrite, Magnetite and brown dolomite
everything reacts to HCl to a slight
degree.
Looks like a good clean white
quartzite, cherting on the surface.

4760-
4770 Quartzite and clean quartz grains. 30%
Faintly green calcareous tuffaceous and
brown dolomite grains, trace of pyrite and
magnetite. 5% micaceous quartzite and
phyllite.
When wet has green overall tint

March 29, 1947

5-23-47

4772-
4780 Quartzite, same as above
with possibly as much as 5%
tuff and dolomite. Quartz
HCl is little more rapid
than above.

4780-
4790 Quartzite, clayey, a little
same as above.
There are milky white soft grains.
This may be altered calcite or
a zirconite about 5%.

4790-
4800 Quartzite, white, clayey
5% of white soft grains, not vit.
Low - 1% mica + quartzite.
5% mica + quartzite.

Looks same as above.

0780 to 4800 lots of white pebbles
up to 2 cm in size and
down.

4800-
4810 Quartzite, clayey, a little more
with 1% green calcareous tuff pebbles
up to 1 mm. Brown Polymite traces
of mica, pyrite + magnetite.
90% Quartz, 5% Tuff, 5% Dolomite
white soft grains sparse.

11-1-30 1476 148 60 13

4213-
4500

Quartz, some of it
is a very coarse
grained material
with some small
pieces of
190

4214-
4500

Quartz, some of it
is a very coarse
grained material
with some small
pieces of
121 Fine, very
fine

4215-
4500

Quartz, some of it
is a very coarse
grained material
with some small
pieces of
105) dark at

4240-
4500

White Quartz, some of it
is a very coarse
grained material
with some small
pieces of
105) dark at

4241-
4500

White Quartz, some of it
is a very coarse
grained material
with some small
pieces of
105) dark at

Mar 20 1971

4880-4890 Quartzite, clear to light green, 75%
5% brown, 10% top
5% white, 10%
10% thin to green, 10%
Trace of apatite and zircon
dull, part has sharp 1-6-7
per hour, thin, part of composition
to mineral in dolomite

4890-4900 Quartzite, white to light green
5% brown, 10% top
5% white, 10%
10% thin to green, 10%
Trace of apatite and zircon

4900-4910 Quartzite, white to light green
5% brown, 10% top
5% white, 10%
10% thin to green, 10%
Trace of apatite and zircon

4910-4920 Quartzite white to light green, 75%
5% brown, 10% top
5% white, 10%
10% thin to green, 10%
Trace of apatite and zircon

4910-4950

4910-
4950

Quartzite white to ch. 75%
Calcite in matrix 15%
Krofite, quartz, feldsp. 8%
Tuff micropellets 3%
Oolite tan 2%
Fossils 1%
Trace of ...

4910-
4950

Quartzite - micaceous, white to brown
40% white to brown
50% brown to black
5% Tuff, green, 5% ... and
10% ...

4910-
4950

Quartzite - micaceous, green to tan,
white + black, matrix green
50% micaceous quartzite
40% Quartzite, white to brown
5% Tuff and soft white pbb -
5% Brown and grey dolomite
Trace of ...

March 2, 1977

4750-
4760

Quartzite and ^{40%} ~~40%~~ ^{30%} ~~30%~~ ^{40%} ~~40%~~
Tuff, white vein ^{40%} ~~40%~~ ^{30%} ~~30%~~ ^{40%} ~~40%~~
spine pyrite, John
Bucket did not catch sand
so this sample is from John
but no shale debris

4760-
4770

Quartzite - micaceous, green as
above except with some white
vein material

Temperature in hole as usual has
gone up 97° at bottom of hole.
Dew point or relative humidity has
not increased.
Quartzite, micaceous, is white
with occasional dark pyrite at
pyrite nodules, possibly some
inclusions of small nodules.

10, 13, 40, 75, 100

4470-
4470

Quartzite, massive, light green
with yellowish green
pyrite. 40% quartz
pyrite 10%
looks chloritic, thin
slight greenish
interbedded with chlorite

4475
4475

4480-
4480

Quartzite with dark green
pyrite. 40% quartz, white
quartz? 60% pyrite, massive
white vein about 5%

4490-
5050

Quartzite with dark green
60% quartz + pyrite 30% mica
rest about the same -
increase in pyrite 1%

5000-
5005

Quartzite + mica same as above
pyrite 1%
slut down for coring.

Level 5005'-5007' from corner
2' record. same as before

Quartz monazite Gneiss

Thinly bedded, fine grained
quartz monazite gneiss. The
quartz is very fine grained and
the monazite is small and
the light color is due to
the presence of quartz.

7-10% mica (15-20% K-feldspar?)
(Calcium mica?)

- 40% Quartz
- 30% Gneiss
- 15-20% Biotite, chlorite
- 1-5% K-feldspar
- 10-15% Calcic amphibole, in some and
brownish, and apparently
bedded in the bedrock.

Trace of magnetite -
Siderite, hematite, pyrite and
like siderite, but is abundant
Trace of zircon, monazite and
also appear to be open texture

The whole rock is a fine grained
quartz monazite gneiss. It is
comparable to the green talc
quartz gneiss, also present as
irregular clumps. There may be some

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5005-5007 cont

type of alteration appears to be
highly variable. It is
similar in appearance to that of gilly
cutaneous.

From lithology it appears
the rock was near 4580'
or just above 4500-4570' in
percentage in intensity

did not see any fine quartz etc in
core

Core ward 5006'

Core to lower 5007' approx 1'

send Roger copy of lithology
by Compton.

Core to lower 4630'-4694'