# DIAMOND DRILL HOLE 70

Tverrfjellet mine, Folldal Verk A/s
Exploration hole drilled in 1965
Location: 2606 V, 1280 N
Inclination: 50°
Total length: ~~[illegible]~~ 104.10 m, 6.40 m overburden

Description:

| [m] | |
|---|---|
| 0.00 - 6.40 | overburden |

BH 70

~~0.00 - 6.40 overburden~~

6.40 - 10.40 slightly calcareous garnet-biotite-sericite schist
(meta-pelite)
greenish gr., fine-grained granoblastic quartz
as cm-large lenses and stringers in alternation
with bands and lenses composed of fine
fibrous sericite containing mm-large porphyro
blasts of biotite. Carbonate forms stringers
spots and sometimes clusters being equally
~~[illegible]~~ distributed. Garnet occurs as
blasts up to 0.7 cm in diameter and shows often ~~often with~~
idiomorphic outlines.
Schistosity: 40°
Gradational contact.

10.40 - 12.50 micaceous quartzite
(metamor. mica-rich qtz-arenite)
gr with greenish gr schlieren and layers, fine-grained granoblastic quartz as lenses and
bands in alternation with schlieren and
mm-thick layers composed of sericite and
biotite. Biotite typically forms mm-large
porphyroblasts which are widely scattered.
Schistosity 45°. Disharmonic folding within
15 cm from lower contact
sharp contact.

Folldal Verk A/S

# REISEREGNING

Reisen er foretatt av

Etter avtale med

Reiserute

Reisens formål

Reisens varighet

fra den kl. til den kl.

| Utgiftsart | Bilag nr. | Fremmed valuta | Kurs | Kr. | Øre | For bokføring Konto |
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| Overnattinger privat<br>netter à kr. | | | | | | |
| Fast dietgodtgjørelse<br>4 – 8 timer à kr. x dager | | | | | | |
| 8 – 12 timer à kr. x dager | | | | | | |
| mer enn 12 timer à kr. x dager | | | | | | |
| Diet ved kurser o.l.<br>kr. x dager | | | | | | |
| Fradrag for middag e.l.<br>à kr. | | | | | | |
| Andre utgifter | | | | | | |
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| Representasjon iflg. bilag | | | | | | |
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For innberetning: Antall reisedager Kr.

| Dato | Reisendes underskrift | Kontrollert | Attestert | Anvist |
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12.50 - 28.18 slightly calcareous biotite - sericite schist (meta-pelite)
same as 6.40 - 10.40 m. Sparse porphyroblasts of garnet. Within 2 m from lower contact enriched in biotite and occurrence of some porphyroblasts of amphibole.
Schistosity: 40°
Gradational contact.

28.18 - 31.00 calcareous sericite-chlorite-quartz-amphibole gneiss
(banded amphibolite. Metamor. pyroclastic - epiclastic sediment of mainly volcanic related material)
light bluish gn, gr, mm- to cm-rhythmic banding of fine grained granoblastic quartz and layers made by fine crystalline chlorite and sericite ~~and~~ which contain randomly oriented porphyroblasts of amphibole on average 0.15 cm in long dimension ~~and randomly oriented~~. Carbonate occurs as round globular spots being widely scattered or forms trains of granules being parallel the laying of the rock. Sparse crystals of Py.
Laying: 40°. Chaotically folded ~~within~~ between 29.40 - 30.00 m.
Gradually passing into following rock.
28.75 - 28.81 slightly calcareous pyrite bear. quartzite (metamor. hydrothermal silica with iron sulphide)

Folldal Verk A/S

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| mer enn 12 timer à kr. x dager | | | | | | |
| Diet ved kurser o.l.<br>kr. x dager | | | | | | |
| Fradrag for middag e.l.<br>à kr. | | | | | | |
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For innberetning: Antall reisedager Kr.

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| Dato | Reisendes underskrift | Kontrollert | Attestert | Anvist |

graphite. Finegrained granoblastic quartz interlayered by schlieren of carbonate and trains of granules of py. Amount in sulfide ca. 1% by volume of the rock. Sharp contacts.

videre med side -3- neste ark.

*Folldal Verk A/S*

# REISEREGNING

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| Reisen er foretatt av | Etter avtale med |

Reiserute

Reisens formål

Reisens varighet

fra den kl. til den kl.

| Utgiftsart | Bilag nr. | Fremmed valuta | Kurs | Kr. | Øre | For bokføring Konto |
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| Overnattinger privat<br>netter à kr. | | | | | | |
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| 8 – 12 timer à kr. x dager | | | | | | |
| mer enn 12 timer à kr. x dager | | | | | | |
| Diet ved kurser o.l.<br>kr. x dager | | | | | | |
| Fradrag for middag e.l.<br>à kr. | | | | | | |
| Andre utgifter | | | | | | |
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| Representasjon iflg. bilag | | | | | | |
| SUM | | | | | | |

For innberetning: Antall reisedager Kr.

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| Dato | Reisendes underskrift | Kontrollert | Attestert | Anvist |

31.00 - 32.10 schistose amphibolite

(meta basalt flow)

gn, fine crystalline, crosscutting veinlets and sometimes clusters of qtz.

schistosity: 40°

Gradually passing into following rock

~~whole rock analysis TV-70-1~~

32.10 - 33.90 calcareous sericite-biot. chlorite - amphibole-qtz-fspar gneiss

(banded amphibolite, metamor. volcanic deposit related sediment or mafic-felsic pyroclastic)

gygn, medium crystalline, crudely developed compositional banding, indistinct alternation of layers rich in qtz and fspar and bands mainly composed of chlorite and amphibole. Amphibole tends to form bundles of acicular crystals 1 to 2 mm in long dimension which are randomly oriented. Abundant round globular spots of carbonate (porphyroblasts or poikiloblasts) which are scattered but locally form trains of granules.

layering: 45°

Sharp contact.

33.90 - 36.45 calcareous greenschist

(metamor. basaltic volcanic, supp. flow)

gn, medium crystalline, crudely deve-

loped leopard texture, abundant round globular spots of carbonate which sometimes form trains of granules.
Schistosity: 40°
Gradually passing into following rock.

36.45 - 39.58 calcareous sericite - bros. chlorite - amphibole - qtz - fspar gneiss
(banded amphibolite)
similar: 32.10 - 33.90 m. Sulphide mineralization at following locations: 36.50 m discontinuous band of py; 37.05 - 37.12 m high-grade py enrichment; 37.20 - 37.32 m high-grade nearly massive py with interbeds of quartzite; 37.45 m schlieren of pyrite; 37.48 - 37.50 m high-grade py-enrichment; 37.95 - 37.98 m cm-thick py band within chemical precipitate (quartzite); 38.16 - 38.34 m high-grade pyrite mineralisation. Different stages of hydrothermal alteration: alteration (~~biotitization~~ sericitization, chloritization, carbonatization) is concentrated between 37.98 - 38.16 m. Sericitization occurs also between 38.34 - 39.58 m.
Layering: 58°
Gradually passing into following rock.

39.58 - 45.76 calcareous greenschist

(metamor. basaltic volcanic, supp. lava flow)
similar: 33.90 - 36.45 m. Distict leopard texture between 40.46 - 44.60 m. locally clusters of py. Tectonic brecciation ~~together with~~ and strong foliation at seveal locations
sharp contact.

45.76 - 50.35 calcareous qtz - fspar - amphibole - chlorite rock

(metamor. volcanic related sediment, may be mafic pyroclastic ~~and~~ deposit supp. containing ~~with~~ epiclastic sedimentary ~~impurity~~ compounds)

greenishgr. wide development of compositional banding, porphyroblastic texture. Fine grained granoblastic qtz and fspar and fine fibrous chlorite as groundmass. Amphibole forms acicular crystals on avorage 0.15 cm in long dimension which are oriented at random. Carbonate occurs as round globular spots - 0.1 to 0.15 cm across - being ~~homogeneously~~ equally distributed. Pyrite is scarce forming minor spots but sometimes bigger clusters.

47.09 - 47.17: carbonate - pyrite bear. quartzite
(metamor. chemical precipitate, supp. exhalite ) gr.white, dense, homogene-

ous. Pyrite forms stringers and clusters, it amounts to ca. 1 % by volume of the rock.
Sharp contacts.

compositional banding: generally ∢40°.
Gradually passing into following rock.

0.35 - 51.23 high calcareous biotite - sericite schist
(metamor. altered volcanic sediment)
AA greenish gr, homogeneous, widely developed
sericitization chicken-wire texture, fine grained
carbonatization
biotitization granoblastic qtz and carbonate as round globular spots or lenses surrounded by fine fibrous sericite. Biotite forms fascicular bundles or minor clusters which are oriented at random.

Gradually passing into following rock.

51.23 - 52.90 high calcareous sericite - bear. chlorite schist
(metamor. altered volcanic rock)
AA
chloritization gr.gn, tectonic brecciated texture, fine fibrous chlorite and sericite
sericitization as schlieren surrounding lense-like spots, clusters and discontinuous bands composed of carbonate and qtz.
Strongly folded and sometimes sheared.

gradational boundary.

52.90 - 61.20 slightly calcareous sericite - chlorite - amphibole - qtz - fspar rock / gneiss
(metamor. volcanic related sediment may be pyroclastic deposit)
greenish gr, crude development of compositional banding, porphyroblastic texture, fine fibrous sericite and chlorite and fine grained granoblastic qtz and fspar as groundmass, amphibole forms acicular crystals on average 0.2 cm in length which tend to be oriented at random, the needles are either equally distributed but locally may be enriched within cm - thick bands. Pyrite is scarce and occurs as tiny round globular spots. It, between 52.53 - 58.80 m, forms several discontinuous bands or trains of granules.

58.80 - 58.98 : mt - bear. pyrite - rich quartzite (metamor. chemical precipitate, supp. exhalite) gr with faint violet tint, dense. Pyrite forms irregular shaped aggregates, it amounts to about 7% by volume of the rock.

gradational boundary

61.20 - 61.68

A
carbonatization
(biotitization)

calcareous amphibole schist
(metamor. slightly altered lava flow)
gn, widely developed layering due to qtz and carbonate which tend to form schlieren and lenses being in alternation with layers or schlieren made by fine crystalline amphibole. Scattered bundles of biotite which are ~~and~~ randomly oriented occur close to the lower border of the section.

Gradational boundary

61.68 - 85.65

AA
chloritization
carbonatization
biotitization

~~whole rock analysis~~
~~66.45 - 66.80 m~~
~~TV - 70 - 4~~
~~71.00 - 71.45 m~~
~~TV - 70 - 6~~
~~78.00 - 78.45 m~~

calcareous to high calcareous biotite-chlorite schist
(metamor. altered basaltic lava-flows with minor intersections of basaltic tuffs and exhalites)
gn, heterogeneous due to slight compositional changes and strong folding. Chlorite is always of fine-fibrous appearence while biotite forms bundles, schlieren and locally clusters which ~~are~~ tend to be aligned with the major foliation of the rock. Carbonate forms either schlieren or crosscutting veinlets, it

besides that is of spotted nature as it forms round globular spots being scattered. Qtz occurs as clusters within strong folded sections.

68.20 - 68.73: mt-pyrite bear. quartzite (meta-chert) gr, dense, some schlieren and veinlets of pyrite.

69.68 - 69.71: quartzite (meta-chert) gr, dense, homogeneous.

69.98 - 70.35: mt-bear. quartzite (meta-chert) grwhite, dense, some crystals of biotite and chlorite, cm-thick interlayers made by carbonate, amphibole, qtz and magnetite.

72.80 - 72.86: quartzite (meta-chert)

73.08 - 73.23: mt-bear. quartzite (meta-chert) gr with faint violet tint, finely dispersed tiny spots of mt, some schlieren of chlorite.

82.10 - 82.22: quartzite (meta-chert)

82.62 - 82.73: quartzite (meta-chert)

sharp deformed contact towards ore zone.

85.65 - 86.36 sulphide-rich quartzite
(metamorph chemical precipitate, exhalative sulphide)
gr, dense, widely developed layering due to sulphide grains which sometimes are concentrated within tiny layers.

Locally clusters of carbonate - especially near contact towards altered mafic floor. Here also spots and stringers of cpy and clusters of po (stringer type mineralization).

Sharp boundary with following sulphide ore.

86.36 - 90.38 sulphide ore
(metamor. exhalative sulphide deposit)
greenish yellow, metallic lustre, homogeneous, high-grade sulphide enrichment set in a matrix of qtz.

90.38 - 91.62 calcareous chlorite schist
(metamor. altered mafic volcanic)
AA
chloritization
carbonatization
gn, fine fibrous chlorite with laminae of qtz and schlieren of carbonate, sparse bundles of biotite.

91.62 - 103.00 sulphide ore
(metamor. exhalative sulphide deposit)
similar: 86.36 - 90.38 m.

103.00 - 104.10 biotite-bear. sulphide-rich biotite-chlorite schist
AA
chloritization
biotitization
carbonatization
(metamor. altered mafic volcanic)
gn, schlieren texture, schlieren and lenses of qtz and/or carbonate surrounded by fine fibrous chlorite which is

accompanied by huge crystals of biotite. Sulphides, predominately pyrite, are bound to qtz - lenses and schlieren.

104.10 m  end of DDH

F.D. Priesemann
Nov 1987

chemical analysis of sulphide mineralizations, DDH 70

| [m] | % Cu | % Zn | % S |
|---|---|---|---|
| 86.20 - 103.00 | 0.98 | 1.30 | 36.30 |

## Whole rock analysis

| prøver | [m] |
|---|---|
| TV - 70 - 1 | 31.10 - 31.45 |
| TV - 70 - 4 | 66.45 - 66.80 |
| TV - 70 - 6 | 71.00 - 71.45 |
| TV - 70 - 7 | 78.00 - 78.45 |

# Suszeptibility DDH 70, Tverrfjellet

Results in $10^{-3}$ cgs

| [m] |  |
|---|---|
| 7.00 | 0.1 |
| 8.00 | 0.2 |
| 9.00 | 0.2 |
| 10.00 | 0.0 |
| 11.00 | 0.0 |
| 12.00 | 0.0 |
| 13.00 | 0.0 |
| 14.00 | 0.0 |
| 15.00 | 0.0 |
| 16.00 | 0.0 |
| 17.00 | 0.0 |
| 18.00 | 0.0 |
| 19.00 | 0.0 |
| 20.00 |  |
| 21.00 | 0.0 |
| 22.00 | 0.0 |
| 23.00 | 0.0 |
| 24.00 | 0.0 |
| 25.00 | 0.0 |
| 26.00 | 0.0 |
| 27.00 | 0.0 |
| 28.00 | 0.0 |
| 28.50 | 0.1 |
| 28.80 | 0.2 |
| 29.00 | 0.1 |
| 29.40 | 0.2 |
| 29.80 | 1.0 |
| 30.00 | 0.1 |
| 31.00 | 0.2 |
| 32.00 | 0.2 |
| 33.00 | 0.1 |
| 34.00 | 0.0 |
| 35.00 | 0.3 |
| 36.00 | 0.2 |
| 37.15 | 0.1 |
| 37.25 | 0.0 |
| 37.50 | 0.0 |
| 38.30 | 0.1 |
| 38.50 | 0.1 |
| 39.00 | 0.0 |
| 39.50 | 0.1 |
| 40.00 | 0.0 |
| 41.00 | 0.0 |
| 42.10 | 0.3 |
| 43.15 | 0.6 |
| 44.00 | 0.0 |
| 45.00 | 0.1 |
| [m] |  |
| 46.00 | 0.0 |
| 47.00 | 0.0 |
| 47.13 | 0.6 |
| 48.00 | 0.0 |
| 49.00 | 0.0 |
| 49.50 | 0.2 |
| 50.00 | 0.0 |
| 51.00 | 0.0 |
| 52.00 | 0.0 |
| 53.00 | 0.0 |
| 54.00 | 0.0 |
| 55.00 | 0.0 |
| 56.00 | 0.0 |
| 57.00 | 0.0 |
| 58.00 | 0.0 |
| 58.50 | 0.2 |
| 58.70 | 0.2 |
| 58.90 | 0.1 |
| 59.00 | 0.0 |
| 59.50 | 0.0 |
| 60.00 | 0.0 |
| 61.00 | 0.0 |
| 61.80 | 0.2 |
| 62.80 | 0.0 |
| 63.00 | 0.0 |
| 64.00 | 0.0 |
| 65.00 | 0.0 |
| 66.00 | 0.0 |
| 66.15 | 0.8 |
| 66.40 | 0.0 |
| 67.00 | 0.0 |
| 68.10 | 0.0 |
| 68.45 | 0.4 |
| 68.60 | 0.2 |
| 69.00 | 0.0 |
| 69.50 | 0.0 |
| 70.10 | 0.8 |
| 70.15 | 11.4 |
| 70.50 | 0.0 |
| 71.00 | 0.0 |
| 72.00 | 0.0 |
| 73.00 | 0.0 |
| 73.15 | 0.6 |
| [m] |  |
| 74.00 | 0.0 |
| 75.00 | 0.0 |
| 76.00 | 0.0 |
| 77.00 | 0.0 |
| 78.00 | 0.0 |
| 79.00 | 0.0 |
| 80.00 | 0.0 |
| 81.00 | 0.0 |
| 82.00 | 0.0 |
| 83.00 | 0.0 |
| 84.00 | 0.0 |
| 85.00 | 0.0 |
| 85.70 | 0.0 |
| 85.75 | 0.6 |
| 85.85 | 0.5 |
| 86.00 | 0.3 |
| 86.10 | 0.4 |
| 86.50 | 1.1 |
| 87.20 | 2.4 |
| 87.80 | 7.0 |
| 88.15 | 1.1 |
| 88.50 | 3.0 |
| 88.85 | 0.3 |
| 89.25 | 0.8 |
| 89.60 | 0.2 |
| 89.90 | 0.0 |
| 90.10 | 0.0 |
| 90.30 | 0.0 |
| 91.30 | 0.0 |
| 91.70 | 0.1 |
| 92.50 | 0.0 |
| 93.50 | 0.2 |
| 94.20 | 0.0 |
| 94.85 | 0.0 |
| 95.25 | 0.3 |
| 95.40 | 5.6 |
| 95.50 | 0.2 |
| 96.50 | 1.3 |
| 97.00 | 0.2 |
| 97.50 | 0.2 |
| [m] |  |
| 98.00 | 0.1 |
| 98.80 | 1.4 |
| 99.30 | 0.1 |
| 99.80 | 0.0 |

Folldal Verk A/S

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| mer enn 12 timer à kr. x dager | | | | | | |
| Diet ved kurser o.l.<br>kr. x dager | | | | | | |
| Fradrag for middag e.l.<br>à kr. | | | | | | |
| Andre utgifter | | | | | | |
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| Representasjon iflg. bilag | | | | | | |
| SUM | | | | | | |

For innberetning: Antall reisedager Kr.

| Dato | Reisendes underskrift | Kontrollert | Attestert | Anvist |
|---|---|---|---|---|
| | | | | |

# DIAMOND DRILL HOLE 58

Hjerkinn east of main fault | ~~1965~~ |
Date of drilling: 3/8 to 16/8 -1965
Location: vest of Kvitdalsvatna, 6200 Ø 90 S
Azimuth: grid north
Inclination: 50°
Total length: 99.50 m ; ~~overburden 7.75 m~~ |

Description:

7.75 m overburden

~~overburden~~
MHS - formasjon until 18.00m

0.00 - 2.70 : qtz - biotite - sericite schist
(meta. semi-pelite)
gr, grgn, brown, pseudo conglomerate texture due to isoclinal folding and shearing along axial planes, often chaotically folded lenses and bands composed of qtz ~~and~~ which carry subordinate ~~some~~ biotite are surrounded by ~~a~~ fine crystalline sericite and biotite which constitute schlieren of ptygamis folded bands.
Gradually passing into following rock.

2.70 - 18.00 : carbonate banded biotite-chlorite schist
(metamor. marble or carbonate banded pelite (turbidite))
grgn with white to yellowishwhite bands, scattered brown flakes, * alternation of cm- to dm-thick bands and lenses made by fine crystalline chlorite and porphyroblastic biotite ~~with~~ and cm-thick layers but sometimes lenses of pure marble.

*, distinct compositional banding,

Compositional banding: 4.10m 63°, 5.30m 78°, 8.50m 89°, 9.50 84°, 10.60m 82°, 13.60m 76° 17.60m 53°.

gradually passing into following rock.

FMB-sequence until 87.95 m

18.00 - 21.10 : calcareous chlorite schist

(metamor. epiclastic sediment mainly composed of volcanic related decomposition compounds, maybe even mafic volcanogenic sediment) (similar chlorite schists from DDH 57) gr, fine crystalline, indistinct lamination, mm-thick lensen or laminae of carbonate and qtz set in a fine crystalline matrix of chlorite which is rich in scattered tiny subidiomorphic blasts of carbonate ~~which~~ are ~~homogeneously distributed~~.* Strongly folded and with clusters of milky qtz between: 19.00 - 20.15 m. Schistosity: 18.90 m 64°.

* Acicular crystals of amphibole on average 0.15 cm in long dimension occur within the upper part of the layer.

20.80 - 20.85: quartzite (meta-chert) grwhite, massive, fine crystalline, trains of granules of po forming discontinuous bands, sometimes 0.5 cm thick clusters of po, ~~sulphide~~ po totals ~~amounts to~~ 1% by volume of the rock. Knife sharp boundaries, 82° and 71°.

Slowly passing into following amphibolite.

21.10 - 34.40 : schistose amphibolite

(meta-basalt flow)

gr, fine crystalline, qtz-carbonate veining throughout. Scattered round globular crystals of il between: 28.00 - 31.00 m, 31.95 - 32.10 m, 32.45 - 33.95 m. Pyrite mineralization either as massive layers and schlieren or low- to medium-grade dissemination (within amphibolite) at several locations: 23.00 - 23.30 m, 23.48 - 23.68 m, 23.85 m, 24.30 m, 24.43 m, 26.20 m, 29.12 - 29.30 m.

Faultzone: 25.05 - 25.80 m, several minor faults between: 25.80 - 27.25 m.

Pyrite banding: 23.20 m 76°, 23.50 m 87°, 23.85 m 87°, 24.43 m 70°, 29.20 m 72°.

3440 - 3483: calcareous amphibole-bear. chlorite phyllite
(meta mafic volcanite)(similar: chlorite phyllites from DDH 51, 76 aso.)
gn, grgn, crude development of compositional layering, fine crystalline chlorite forms cm-thick layers sometimes lenses which alternate with qtz-fspar enriched schlieren and bands, amphibole forms acicular crystals often being parallel aligned with the layering of the rock,
→ it is concentrated within the central part of the section.
Sharp contact.

34.83 - 38.80: amphibolite
(meta-basalt flow)
gn, fine and medium crystalline, crudely developed leopard texture, abundant tiny veins of carbonate which locally compose a tight network. Interlayers of calcareous chlorite phyllite at 38.08 - 38.18 m and 38.36 - 38.42 m, always sharp boundaries with the surrounding amphibolite: 64°, 73°. Sharp contact with following rock.

38.80 - 39.16 : calcareous amphibole - bear. chlorite phyllite
(meta mafic volcanic)(similar: chlorite phyllites from f.ex. DDH 51 a. 76)
gn, grgn, schlieren texture which sometimes transgoes into a cm-compositional banding, fine crystalline chlorite as bands and schlieren alternate with lensen and bands rich in qtz and fspar, acicular crystals of amphibole on average 0.15 cm in long dimension are concentrated within mm- to cm- thick interlayers which occur sporadically, abundant round globular spots of carbonate normally being homogueously distributed but sometimes being concentrated within tiny bands. Rare spots of po.
Compositional banding: 73°
Gradual contact.

39.16 - 40.75 : slightly calcareous biotite - qtz rock
(metamor. qtz-arenite with exhalative qtz and magnetite)
brownish gr, well distinct lamination, close alternation of laminae of biotite with mm- thick bands mainly con-

posed of qtz but containing abundant scattered tiny flakes of biotite being parallel aligned with the lamination of the rock, porphyroblasts of amphibole which decrease in size and abundancy upsection occur until 15 cm from the lower contact of the layer, here are also found some streaks of Py, within the uppermost part of the section occurrence of fine crystalline sericite which increases in amount upsection.

Lamination: 73°

Gradually passing into following rock.

40.45 - 45.30: qtz-rich biotite-sericite schist

(meta-pelite /-semi-pelite with abundant exhalative magnetite)

greenish gr, flaser and lenticular texture which supp. results from strong deformation, fine crystalline sericite which is accompanied by slightly porphyritic crystals of biotite as schlieren and streaks in close alternation with lenses and schlieren ~~mainly~~ composed of qtz ~~and~~ which contain ~~with~~ some scattered flakes of biotite, carbonate tends to form schlieren or trains of granules which are widely spaced. Low-grade dissemination of

mt sometimes forming makroskopic visuable blasts.
Schistosity: 60°
Gradually passing into following rock.

45.30 – 45.82: biotite – sericite schist
(meta-pelite)
gr with faint greenish tint, abundant brown flakes, porphyroblastic texture, scattered bundle-like aggregates and/or porphyroblasts of biotite ~~within~~ set in a schistose matrix mainly composed of sericite.
Gradual boundary.

45.82 – 46.05: biotite-chlorite-sericite schist
A
(meta-pelite mixed with mafic volcanic compounds, hydrothermal alteration)
greenish gr with abundant brown spots, wide development of compositional banding, porphyroblastic texture, chlorite and sericite form schlieren and layers which alternate with tiny lenses ~~often~~ mostly composed of qtz but sometimes of carbonate, biotite forms 0.15 cm large crystals or crystal aggregates which are nearly equally

chemical analysis
45.87 - 46.05 m

distributed. Schlieren and streaks of po between 45.87 - 46.05 m, the sulphide amounts to 2 % by volume of the rock
strongly deformed contact.

46.05 - 46.26: calcareous biotite - sericite - chlorite schist
(metamor. mafic volcanite)
gn with abundant brown flakes, crudely developed schlieren texture, sericite and chlorite form discontinuous bands and schlieren which alternate with lenses rich in qtz, homogeneous distribution of bundles and imperfect spherulites of biotite on average 0.15 cm large, scattered round globular crystals of carbonate which in places form trains of granules.
Sharp contact.

46.26 - 46.34: qtz - pyrite rock
(exhalative sulphide deposit)

chemical analysis

gn with metallic luster, porphyroblastic texture, homogeneous distribution of round globular crystals or crystal aggregates of pyrite within a groundmass composed of fine grained granoblastic qtz ~~with~~ and some scattered por-

phyroblasts of biotite.
Sharp contact.

46.34 - 46.75 : calcareous biotite-chlorite schist
(metamor. mafic volcanite)
similar: 46.05 - 46.26 m, slowly decreasing carbonate- and biotite-amount up-section.
Schistosity: 82°
Gradual boundary

46.75 - 53.00 : schistose amphibolite and chlorite-amphibole schist
(meta-basalt flow)
gn, extremely fine crystalline, abundant carbonate veining.
Sharp contact.

53.00 - 55.65 : biotite-sericite-rich quartzite
(metamor. qtz-arenite or semi-pelite)
greenish brownish gr, fine crystalline with biotite being slightly porphyritic, well defined mm-alternation of qtz- and mica-bands from the lower contact until 53.70 m, between 53.70 m and 55.65 m mostly of lenticular texture which is caused by the strong deformation

of the rock. Rare spots of py at 53.05 m and at several locations between 55.00 and 55.30 m.

55.65 - 55.83: milky qtz

55.83 - 65.60: qtz-rich biotite-sericite schist
(metamor. semi-pelite with abundant exhalative magnetite)
similar: 40.45 - 45.30 m, but with macroscopic ~~ta~~ mt which tends to be represented by scattered sub-idioblastic porphyroblasts max. 0.25 cm in diameter.
60.55 - 61.04: garnet-bear. magnetite - quartzite (meta-chert)
gr with dark brown ~~to~~ or even black stripes, dense, ~~extremely~~ fine grained granoblastic ~~bands of~~ qtz with low-grade dissemination of mt is interlayered by cm-thick bands of nearly massive mt which contain abundant tiny crystals of reddish brown garnet.
Sharp contacts.

65.60 - 66.40: calcareous biotite-sericite schist
(meta-pelite)
greenish gr, fine crystalline with biotite forming 0.1 cm large randomly oriented

porphyroblasts ~~being~~ which are equally distributed, carbonate occurs either as schlieren or forms round globular spots.
Gradually passing into following rock.

66.40 - 67.75 : calcareous qtz-rich chlorite - sericite - biotite schist

(meta-pelite with rhythmic occurrence of exhalative mt and sulphide)

greenish brownish gr, porphyroblastic texture, well developed compositional banding, cm-alternation of layers of biotite-sericite schist with or without carbonate, ~~or~~ bands of sericite - biotite schist with magnetite qtz layers and sortose bands with medium-grade dissemination of py.
Compositional banding: 66.60 m 75°, 67.20 m 72°, 67.70 m 61°.
Gradually passing into following rock.

67.75 - 77.35 : slightly calcareous biotite - sericite schist

(meta-pelite)

gr, fine crystalline, widely developed schlieren texture with transactions into laminated rock. Dissemination of mt throughout.

Schistosity: 69.50 m 63°, 71.40 m 62°, 72.40 m 47°, 75.50 m 48°.

73.05 - 73.60: magnetite - rich quartzite (meta chert)

chemical analysis
73.05 - 73.30 m

gr with dark brown schlieren and layers, dense quartzite with sometimes scattered idioblasts of mt is interlayered by schlieren mainly composed of mt but also rich in sericite and biotite. Locally thin layers of mass. pyrite.

73.60 - 73.80: mt bear. pyrite rock (exhalative sulphide deposit)

chemical analysis
73.60 - 73.80 m

medium-grained granoblastic, massive, high-grade pyrite mineralization ~~with~~ set in matrix composed of qtz and/or carbonate accompanied by ~~low grade~~ of subordinate amount mt ~~concentration, the mt crystals being homogeneously distributed~~

77.35 - 80.05 : magnetite - rich quartzite (meta - chert)

chemical analysis
77.35 - 77.50 m,
78.70 - 78.80 m,
79.20 - 79.26 m,
79.54 - 79.60 m

gr with abundant blackish schlieren and layers, dense quartzite with low-grade dissemination of mt interlayered by schlieren and layers mainly composed of mt. At several locations low-grade pyrite mineralization which often occurs within mica-rich intersections. Idioblasts of garnet within mt-layers between 78.90 - 79.50 m.

Gradational lower contact with chert-mica schist alternation and bands of py. Sharp upper contact.

80.05 - 81.80: slightly calcareous biotite-sericite schist (meta-pelite)

similar: 65.40 - 66.40 m.

Sharp contact.

81.80 - 84.03 : magnetite-rich quartzite (meta-chert)

similar: 77.35 - 80.05 m but no garnet and no pyrite.

Knife sharp contact.

84.03 - 86.70 : calcareous biotite-chlorite-sericite schist (meta-pelite with volcanic impurity)

greenish gr., slightly laminated, porphyroblasts of biotite and mt are widely scattered within a schistose groundmass composed of chlorite and sericite. Carbonate forms flat lenses sometimes laminae which are conformable to the major foliation of the rock. At several locations pyrite - mineralization which varies between low - and high - grade: 84.38 - 84.50 m, 84.70 m, 85.30 - 85.36 m, 85.60 - 86.05 m, 86.57 - 86.62 m.

chemical analysis
84.38 - 84.50 m,
85.30 - 85.38 m,
85.60 - 86.05 m,
86.57 - 86.62 m

schistosity: 59°.
Knife sharp contact.

86.70 - 87.95 : magnetite - rich quartzite
(meta - chert)
similar: 77.35 - 80.05 m but no garnet.
Several occurrences of pyrite: 86.72 m, 86.85 - 86.92 m, 87.07 - 87.20 m, 87.40 m, 87.80 m.

chemical analysis
86.85 - 86.92 m,
87.07 - 87.20 m,
87.40 - 87.45 m

Knife sharp boundary.

T07 - sequence until end of DDH

87.95 - 90.00 : slightly calcareous biotite - sericite schist
(meta-pelite)
similar: 65.40 - 66.40 m.
88.95 - 89.10 : scattered crystals of mt and some tiny interlayers of mt - chert.

Sharp contact.

90.00 - 91.75 : slightly calcareous qtz - biotite - rich sericite schist
(meta - pelite, semi - pelite)

greenish gr, lenticular texture, lenses and schliren of quartz in close alternation with bands and schliren composed of sericite and some biotite

91.75 m end of DDH

F. D. Priesmann
Mai 1987

# Chemical analysis of sulfide mineralizations, DDH 58.

| [m] | % Cu | % Zn | % S |
|---|---|---|---|
| 45.87 - 46.05 | 0.04 | 0.03 | 14.9 |
| 46.26 - 46.34 | – | 0.03 | 19.5 |
| 73.05 - 73.30 | – | 0.04 | 3.02 |
| 73.60 - 73.80 | – | 0.02 | 40.3 |
| 77.35 - 77.50 | 0.01 | 0.03 | 2.49 |
| 78.70 - 78.80 | 0.02 | 0.04 | 2.81 |
| 79.20 - 79.26 | 0.02 | 0.04 | 2.54 |
| 79.54 - 79.60 | 0.02 | 0.04 | 0.35 |
| 84.38 - 84.50 | – | 0.02 | 4.39 |
| 85.30 - 85.38 | 0.01 | 0.02 | 3.23 |
| 85.60 - 86.05 | 0.01 | 0.05 | 6.22 |
| 86.57 - 86.62 | 0.01 | 0.01 | 13.2 |
| 86.85 - 86.92 | – | 0.03 | 15.0 |
| 87.07 - 87.20 |  | 0.06 | 43.88 |
| 87.40 - 87.45 | – | 0.01 | 14.4 |

Susceptibility, DDH58 (Scintrex SM-5)

Results in $10^{-3}$ [cgs]

| [m] | |
|---|---|
| 0.00 | 0.0 |
| 1.00 | 0.0 |
| 2.00 | 0.0 |
| 3.00 | 0.0 |
| 4.00 | 0.0 |
| 5.00 | 0.0 |
| 6.00 | 0.0 |
| 7.00 | 0.0 |
| 8.00 | 0.0 |
| 9.00 | 0.0 |
| 10.00 | 0.0 |
| 11.00 | 0.0 |
| 12.00 | 0.0 |
| 13.00 | 0.0 |
| 14.00 | 0.0 |
| 15.00 | 0.0 |
| 16.00 | 0.0 |
| 17.00 | 0.0 |
| 18.00 | 0.0 |
| 19.00 | 0.0 |
| 20.00 | 0.1 |

Videre neste side

Suszeptibility DDH 58 (Sintrex - 5775)

Results in $10^{-3}$ [cgs]

[m]

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 20.00 | 0.1 | 44.50 | 3.5 | 61.00 | 27.0 | 73.75 | 14.0 | 86.90 | 46.0 |
| 20.50 | 0.2 | 44.75 | 3.6 | 61.15 | 3.4 | 73.95 | 5.7 | 87.20 | 12.0 |
| 21.00 | 0.2 | 44.95 | 2.4 | 61.45 | 4.0 | 74.20 | 5.0 | 87.50 | 19.0 |
| 21.50 | 0.1 | 45.15 | 1.9 | 61.85 | 3.0 | 74.50 | 4.5 | 87.80 | 36.0 |
| 22.00 | 0.1 | 45.40 | 1.1 | 62.05 | 2.9 | 74.80 | 5.3 | 88.10 | 7.0 |
| 22.50 | 0.1 | 45.60 | 6.4 | 62.30 | 2.1 | 75.20 | 5.1 | 88.50 | 3.9 |
| 23.00 | 0.3 | 45.80 | 2.8 | 62.50 | 3.9 | 75.50 | 3.2 - | 88.80 | 3.0 |
| 23.50 | 0.1 | 45.95 | 1.3 | 62.85 | 2.9 | 75.80 | 3.1 | 89.10 | 25.0 |
| 24.00 | 0.2 | 46.10 | 0.0 | 63.15 | 1.3 | 76.10 | 4.8 | 89.50 | 4.8 |
| 24.50 | 0.1 | 46.35 | 0.0 | 63.40 | 2.5 | 76.40 | 6.5 | 89.75 | 4.9 |
| 25.00 | 0.1 | 46.40 | 0.0 | 63.75 | 2.6 | 76.60 | 5.6 | 90.15 | 0.2 |
| 26.00 | 0.1 | 47.00 | 0.0 | 64.00 | 3.0 | 76.80 | 5.4 | 90.50 | 0.3 |
| 27.00 | 0.3 | 48.00 | 0.0 | 64.20 | 2.9 | 77.15 | 3.4 | 90.80 | 0.2 |
| 28.00 | 0.2 | 49.00 | 0.0 | 64.65 | 5.1 | 77.30 | 18.0 | 91.20 | 0.3 |
| 29.00 | 0.3 | 50.00 | 0.0 | 64.80 | 1.8 | 77.40 | 49.0 | 91.70 | 0.1 |
| 30.00 | 0.0 | 51.00 | 0.0 | 65.05 | 5.0 | 77.50 | 30.0 | | |
| 30.70 | 0.0 | 52.00 | 0.0 | 65.45 | 5.0 | 77.60 | 60.0 | | |
| 31.00 | 0.0 | 53.00 | 0.0 | 65.90 | 6.1 | 77.70 | 43.0 | | |
| 31.50 | 0.0 | 53.50 | 0.7 | 66.10 | 19.0 | 77.90 | 53.0 | | |
| 32.00 | 0.1 | 53.80 | 0.5 | 66.30 | 26.0 | 78.10 | 50.0 | | |
| 33.00 | 0.0 | 54.05 | 0.8 | 66.60 | 19.0 | 78.30 | 12.0 | | |
| 34.00 | 0.0 | 54.45 | 0.4 | 66.80 | 2.4 | 78.50 | 20.0 | | |
| 35.00 | 0.0 | 54.75 | 0.0 | 67.05 | 27.0 | 78.70 | 17.0 | | |
| 36.00 | 0.0 | 54.95 | 0.2 | 67.30 | 18.0 | 78.95 | 14.0 | | |
| 37.00 | 0.0 | 55.15 | 0.0 | 67.50 | 24.0 | 79.20 | 33.0 | | |
| 38.00 | 0.0 | 55.40 | 0.4 | 67.85 | 5.8 | 79.40 | 45.0 | | |
| 39.00 | 0.0 | 55.90 | 2.5 | 68.05 | 8.1 | 79.50 | 29.0 | | |
| 39.10 | 0.3 | 56.05 | 1.8 | 68.25 | 27.0 | 79.75 | 44.0 | | |
| 39.35 | 2.2 | 56.35 | 40 | 68.50 | 11.0 | 79.95 | 30.0 | | |
| 39.50 | 1.4 | 56.75 | 3.0 | 68.80 | 16.0 | 80.25 | 2.7 | | |
| 39.70 | 1.6 | 56.95 | 2.7 | 69.20 | 4.5 | 80.75 | 0.7 | | |
| 39.80 | 0.6 | 57.10 | 3.0 | 69.50 | 4.4 | 81.10 | 5.0 | | |
| 40.00 | 0.5 | 57.40 | 3.8 | 69.90 | 5.6 ← | 81.50 | 5.6 | | |
| 40.10 | 2.0 | 57.50 | 3.1 | 70.00 | 3.2 | 81.95 | 47.0 | | |
| 40.45 | 3.2 | 57.75 | 4.1 | 70.30 | 12.0 | 82.25 | 84.0 | | |
| 40.75 | 3.7 | 58.05 | 4.4 | 70.50 | 9.3 | 82.50 | 11.0 | | |
| 41.05 | 2.4 | 58.40 | 3.2 | 70.80 | 7.7 | 82.80 | 16.0 | | |
| 41.35 | 2.9 | 58.60 | 4.8 | 71.20 | 6.0 | 83.05 | 18.0 | | |
| 41.70 | 3.0 | 58.80 | 4.7 | 71.50 | 3.5 | 83.50 | 25.0 | | |
| 41.95 | 5.9 | 59.05 | 4.8 | 71.80 | 4.1 | 83.85 | 24.0 | | |
| 42.10 | 4.6 | 59.30 | 3.7 | 72.30 | 3.6 | 84.10 | 3.0 | | |
| 42.30 | 2.8 | 59.60 | 3.5 | 72.50 | 2.9 | 84.50 | 0.5 | | |
| 42.55 | 3.3 | 59.75 | 4.2 | 72.75 | 3.5 | 84.75 | 1.4 | | |
| 42.80 | 3.4 | 59.90 | 4.2 | 72.95 | 3.2 | 85.20 | 0.3 | | |
| 43.05 | 3.5 | 60.10 | 2.6 | 73.10 | 11.0 | 85.50 | 0.4 | | |
| 43.45 | 5.2 | 60.35 | 3.9 | 73.20 | 31.0 | 85.75 | 1.6 | | |
| 43.75 | 3.8 | 60.55 | 3.0 | 73.40 | 28.0 | 86.15 | 2.3 | | |
| 44.05 | 2.7 | 60.75 | 12.0 | 73.50 | 18.0 | 86.50 | 0.9 | | |
| 44.30 | 3.5 | 60.90 | 10.0 | 73.60 | 6.6 | 86.75 | 17.0 | | |

# DIAMOND DRILL HOLE 69

Tverrfjellet mine, Folldal Verk A/s
Exploration hole drilled in 1965
Location: 2500 V, 1270 N
Inclination: 50°
Total length: 77.20 m, 4.20 m overburden

## Description

0.00 - 4.20 overburden

4.20 - 4.80 high calcareous chlorite - sericite bear. amphibole - qtz - fspar rock / gneiss (metamor. felsic tuff)

A
carbonatization

gr with often distinct yellowish tint due to weathered carbonate, widely developed compositional banding, porphyroblastic texture, lenticular ~~needles~~ crystals of amphibole on average 0.2 cm in long dimension are either widely spaced or form trains of granules within a groundmass composed of fine crystalline carbonate, qtz and fspar. In places alteration of amphibole to chlorite and sericite.

Gradational boundary

4.80 - 12.20 calcareous chlorite-amphibole-qtz-fspar gneiss (banded amphibolite) (metamor. mafic pyroclastic deposit or epiclasitic sediment composed of mafic volcanic decomposition compounds)
gn, widely developed compositional and textural banding, porphyro-

blastic texture, randomly oriented acicular ~~needles~~ crystals of amphibole set in a fine crystalline groundmass composed of chlorite and qtz and fspar. Carbonate forms scattered round globular crystals on average 0.15 cm in diameter.

8.08 – 8.60: sulphide bear. quartzite (meta-chert) gr with greenish schlieren and bands, fine crystalline quartz as cm-thick bands in alternation with sulphide rich quartzose bands, some interlayers of schistose amphibolite with crudely developed leopard texture. Sulphide is mostly pyrite ~~and~~, it makes up 8% by volume of the rock.

Gradational contact with distinct foliation within both types of rock.

12.20 – 23.30 Plagioclase amphibolite (leopard amph.) (meta-basalt flow)
gn lenses set in a gr white matrix, distinct leopard texture, lense-shaped crystal aggregates of amphibole on average 0.5 cm large ~~surrounded~~ embedded ~~by~~ in a fine crystalline groundmass composed of

fspar, qtz and epidote.
~~and~~ tiny crosscutting veins of qtz. Distinctly foliated rock near shearplanes.
sharp contact

23.30 - 24.80 slightly calcareous qtz-fspar-chlorite-amphibole rock/gneiss (banded amphibolite) (metamor. mafic pyroclastic deposit or epiclastic sediment composed of mafic volcanic decomposition compounds)
similar: 4.80 - 12.20 m
24.20 - 24.60: amphibole-sericite-chlorite bear. pyrite rich quartzite (metamor. chemical precipitate - supp. exhalite - with mafic volcanic interlayers) gr with some greenish bands, fine crystalline, widely developed compositional banding. Pyrite is concentrated within 10 cm thick bands occurring both near the footwall and the hanging wall of the layer.
Sharp contacts.

24.80 - 34.95 schistose amphibolite
(meta basalt flow)
gn. fine cristalline, in places tectonic brecciated structure and rich in qtz-veining. Strongly enriched in carbonate between 29.40 - 31.40 m. Carbonate forms

ho either scattered round globular spots or trains of granules which are parallel the major foliation of the rock. Interlayers of quartzite (meta-chert) with low degree in sulphides (mainly py) between: 32.20 - 32.30 m, 32.62 - 32.72 m, 32.90 - 32.95 m.

Strongly foliated and in places tectonized.

34.95 - 35.80 calcareous to high calcareous amphibole-chlorite - qtz - fspar rock
(metamor. volcanite)
greenish gr, flaser texture due to strong foliation of the rock, flasers and schlieren of amphibole and chlorite surrounded by fine crystalline qtz and fspar. Carbonate occurs as scattered round globular spots but also as schlieren ~~and~~, it sometimes constitutes clusters. Some ~~clusters~~ spots of pyrite
Sharp contact.

35.80 - 37.30 amphibolite banded quartzite
(meta-chert with interlayers of basaltic volcanic)
gr with gn interlayers, distinct compo-

sitional banding. fine grained quartz as cm-thick bands in rhythmic alternation with mm- and cm-thick layers composed of amphibole and with minor constituents as been biotite and chlorite.

37.30 - 39.15 slightly calcareous biotite-amphibole schist
(metamor. slightly altered mafic volcanic, supp. basalt flow)
brownish, crudely developed porphyroblastic texture, homogeneous, equally distributed bundles of biotite on average 0.15 cm large set in a matrix of tiny acicular crystals of amphibole and fine crystalline qtz and fspar.

A
biotitization

sharp boundary.

39.15 - 39.75 amphibolite-banded quartzite
(meta-chert with interlayers of basaltic volcanic)
similar: 35.80 - 37.30 m.

39.75 - 42.70 calcareous to high calcareous amphibole-biotite-chlorite-qtz-fspar rock
(metamor. highly altered volcanic, supp.

fspar-rich amphibolite)

AA
carbonatization
biotitization
chloritization

greenish gr, crudely developed schlieren texture, porphyroblastic texture, acicular crystals of amphibole on average 0.15 cm in long dimension and bundles of biotite set in a fine crystalline matrix composed of chlorite (may also containing sericite), qtz, fspar and carbonate. The latter mineral also occurs as round globular spots of equal distribution. Amphibole often is totally altered to biotite while biotite nearly is absent from areas with lower degree of alteration.

Gradational boundary.

42.70 - 47.70

plagioclase-amphibolite with transitions into slightly calcareous qtz-fspar-biotite-chlorite-amphibole rock/gneiss

(metamor. basaltic volcanic locally being moderately altered)

grgr, homogeneous but in places crude development of compositional banding, porphyroblastic texture, acicular crystals of amphibole set in a fine crystalline matrix composed of either qtz and fspar ~~within~~ (plagioclase amphibole schists) ~~and~~ or carbonate, qtz, fspar, chlorite and ± biotite ~~and sericite~~ ~~within~~ ~~zones which are~~ ~~widely banded~~ (moderately altered sections). Plagioclase amphibole schist sometimes contains porphyritic magnetite.

Gradational contact.

47.70 - 52.00 calcareous to high calcareous chlorite-biotite-amphibole schist

(metamor. moderately altered basalt flow)

A
carbonatization
biotitization

browngr., crudely developed schlieren texture, equal distribution of patches of biotite within a fine crystalline matrix composed of carbonate, amphibole, chlorite, qtz and fspar. In places round globular spot of carbonate. Interlayers of mt-bear. quartzite (meta-chert) at the bottom of the sequence.

Sharp contact.

52.00 - 54.10 Calcareous biotite-chlorite schist

(metamor. highly altered basalt flow)

AA
Carbonatization
Biotitization
Chloritization

gn with abundant brown patches, bundles of biotite are scattered within a fine-fibrous matrix of Mg-rich chlorite.

locally lenses and schlieren sometimes giant spots of carbonate. small interlayers of mt-bear. quartzite (meta-chert).

54.10 - 72.10 sulphide-ore
(metamor. exhalative sulphide deposit)
gn with metallic lustre, porphyroblasts of pyrite accompanied by other sulphides set in a matrix composed of qtz but locally of qtz and carbonate.

73.10 - 74.80 quartzite
(meta-chert)
grwhite, dense, some tiny spots of pyrite and mt.

72.10 - 73.10 high calcareous chlorite schist
(metamor. highly altered mafic volcanic)
(see also DDH 71 100.95 - 107.00 m)
gn, schlieren texture, lenses and layers composed of fine fibrous chlorite in alternation with schlieren and lenses composed of qtz and carbonate. Abundant tiny scattered spots of mt.

74.80 - 77.20 slightly calcareous garnet-chlorite-sericite-amphibole schist (garbenschist)
(metamor. epiclastic sediment with

some volcanic related compounds) greenish gr with large blackish gn garben, huge porphyroblasts of amphibole and idioblasts of garnet set in a fine crystalline matrix composed of sericite and chlorite. ~~locally infolded~~ Bands of sulphide bear. quartzite (meta-chert) ~~Bands~~ are locally present (infolded).

~~7[illegible].00 - 79.00 biotite - sericite and biotite - sericite - chlorite schist~~

~~(meta - pelite)~~

~~grgn, schlieren texture, fine crystalline qtz as lenses and schlieren in alternation with layers composed of sericite and chlorite which show spotted bundles of biotite.~~

77.20 m end of DDH.

F.D. Priesemann
Nov 1987

Chemical analysis of sulphide mineralizations, Bh 69

| [m] | % Cu | % Zn | % S |
|---|---|---|---|
| 54.10 - 71.50 | 0.52 | 1.40 | 41.50 |

# Whole rock analysis

| prover | [m] |
|---|---|
| TV - 69 - 1 | 15.30 - 19.80 |
| TV - 69 - 2 | 34.30 - 34.80 |
| TV - 69 - 4 | 40.50 - 40.80 |
| TV - 69 - 5 | 47.40 - 47.70 |
| TV - 69 - 6 | 49.60 - 49.95 |

Süszeptibility DD 69, Tverrfjellet
Results in $10^{-3}$ cgs

| [m] | |
|---|---|
| 20.00 | 0.0 |
| 21.00 | 0.0 |
| 22.00 | 0.0 |
| 23.00 | 0.0 |
| 24.00 | 0.0 |
| 24.25 | 0.0 |
| 24.40 | 0.0 |
| 24.55 | 0.0 |
| 25.00 | 0.0 |
| 26.00 | 0.0 |
| 27.00 | 0.0 |
| 28.00 | 0.0 |
| 29.00 | 0.0 |
| 30.00 | 0.0 |
| 31.00 | 0.0 |
| 32.00 | 0.0 |
| 32.25 | 0.0 |
| 32.50 | 0.0 |
| 32.70 | 0.7 |
| 32.90 | 0.2 |
| 33.00 | 1.3 |
| 34.00 | 0.1 |
| 35.00 | 0.1 |
| 36.00 | 0.9 |
| 36.20 | 0.3 |
| 36.50 | 0.3 |
| 36.75 | 1.5 |
| 36.90 | 0.9 |
| 37.15 | 0.4 |
| 37.40 | 0.4 |
| 37.80 | 0.7 |
| 38.30 | 0.8 |
| 38.80 | 0.6 |
| 39.05 | 0.4 |
| 39.25 | 0.7 |
| 39.50 | 0.6 |
| 39.85 | 0.5 |
| 40.00 | 0.6 |
| 40.50 | 0.3 |
| 40.90 | 0.5 |
| 41.05 | 0.4 |
| 41.50 | 0.6 |
| 42.00 | 0.5 |
| 42.50 | 0.6 |
| 43.00 | 1.0 |
| 43.50 | 0.9 |
| 44.00 | 1.6 |
| 44.50 | 0.7 |
| 45.00 | 0.9 |
| 45.50 | 0.4 |
| 46.00 | 0.7 |
| 46.50 | 0.7 |
| 47.10 | 0.3 |
| 47.90 | 0.5 |
| 48.00 | 0.5 |
| 48.50 | 0.4 |
| 49.00 | 0.4 |
| 49.50 | 0.3 |
| 50.00 | 0.5 |
| 50.50 | 0.4 |
| 51.00 | 0.3 |
| 51.80 | 0.6 |
| 52.00 | 0.3 |
| 52.50 | 0.2 |
| 53.20 | 3.8 |
| 54.30 | 0.3 |
| 54.80 | 0.0 |
| 55.50 | 0.2 |
| 56.00 | 0.0 |
| 56.60 | 0.1 |
| 57.00 | 0.1 |
| 58.00 | 0.1 |
| 59.00 | 0.0 |
| 60.10 | 0.0 |
| 60.50 | 0.3 |
| 61.45 | 0.0 |
| 62.50 | 0.0 |
| 63.50 | 0.2 |
| 64.40 | 0.4 |
| 65.40 | 0.5 |
| 65.80 | 0.5 |
| 66.20 | 0.0 |
| 66.70 | 0.0 |
| 67.10 | 0.1 |
| 67.70 | 0.2 |
| 68.50 | 0.0 |
| 69.50 | 0.0 |
| 70.00 | 0.0 |
| 70.50 | 0.1 |
| 71.00 | 0.0 |
| 71.50 | 0.0 |
| 72.20 | 0.0 |
| 72.50 | 0.0 |
| 73.20 | 1.5 |
| 73.50 | 7.0 |
| 73.80 | 0.1 |
| 74.00 | 1.2 |
| 74.30 | 3.7 |
| 74.70 | 4.8 |
| 75.10 | 2.2 |
| 75.30 | 0.5 |
| 75.60 | 1.2 |
| 76.20 | 1.2 |
| 76.70 | 6.9 |
| 77.20 | 0.2 |
| 77.80 | 0.4 |

# DIAMOND DRILL HOLE 59

Hr. Sinn, east of main fault, ~~1965~~
Date of drilling: 17/8 - 23/8 - 1965
Location: west of Kvitdalsvatna, 5200 Ø - 1175 N

Azimuth: grid north

Inclination: 50°

Total length: 96.60 m. ~~15 m overburden~~.

Description:

15.00 m overburden

0.00 - 1.70 : biotite-bear. chlorite schist
(meta-pelite)
gngr to gn, fine crystalline chlorite as cm-thick isoclinally folded bands and also as lenses in alternation with stripes and lenses of qtz and milky qtz, biotite forms streaks and schlieren which are parallel ~~to~~ the major foliation of the rock.

strongly folded.
Gradually passing into following rock.

1.70 - 5.50 : chlorite-rich quartzite
(metamor. qtz-arenite)
gr to grwhite with gn schlieren, ~~layers and irregular formed bodies~~,
rhythmic mm-banding of qtz and chlorite which is often isoclinally folded, strong ~~[illegible]~~g deformation results in a lenticular texture, at several places stong tectonic fragmentation.

unclear contact relationships due to folding.

5.50 - 12.85 : biotite-bear. chlorite schist
(meta-pelite)

similar : 0.00 - 1.70 m but richer in qtz, often distinct crenulation cleavage, always strongly isoclinally folded, → ~~brecciation~~ tectonic fragmentation with transition into mylonitic rock) between : 6.95 - 7.70 m, 10.10 - 10.30 m. Scattered idioblasts of carbonate of 0.15 cm size between : 6.45 - 6.75 m and 8.45 - 9.20 m. Scattered poikiloblasts of il from 11.80 m until boundary of the rock.
Schistosity : 13.20 m [illegible] 68°.
Gradually passing into following rock.

12.85 - 13.10 : calcareous chlorite - amphibole gneiss (metamor. mafic tuff)
gn. porphyroblastic texture, amphibole forms acicular and lense-like crystals on average 0.2 cm in long dimension which are ~~scattered~~ homogeneously distributed within a ~~matrix~~ groundmass of fine crystalline chlorite, carbonate is bound to bands and irregular shaped features made by qtz, slight distinction of cm-banding due to textural and compositional variations.
Sparse porphyroblasts of il.
Banding: 60°.
Sharp contact.

13.10 - 13.66 : massive pyrite
(exhalative sulphide deposit)
metallic luster ~~pyrite staining~~, massive, homogeneous, scattered porphyroblasts of amphibole on average 0.3 cm in long dimension are roughly being parallel aligned, some irregular formed bodies of qtz. sharp contact with following amphibolite.

~~chemical analysis~~

13.66 - 20.45 : calcareous amphibolite
(meta-basalt flow)
gn to grgn, fine crystalline but more often medium to even coarse crystalline, often with distinct leopard texture. Carbonate forms lense-shaped bodies or schlieren ~~but~~, it sometimes (17.90 - 18.40 m) is of spotted appearence. Scattered tiny crystals of il are present throughout.
15.30 - 15.32 : massive pyrite (exhalative sulphide) infolded section from 13.10 - 13.66 m.
sharp contact.

20.45 - 20.90 : quartzite
(meta-chert with low degree i exhalative sulphide)

~~chemical analysis~~

gr sometimes milky white, strongly folded, schlieren and irregular shaped bodies of schistose amphibolite with scattered crystals of il. Pyrite mineralization from low-grade to nearly massive.

20.90 - 21.45 : schistose amphibolite
(meta-basalt flow)
gr, fine crystalline, strongly folded and with a tight network of qtz which sometimes ends up within big clusters.

21.45 - 21.95 : quartzite
(meta-chert with sulphide)
similar: 20.50 - 20.90 m.

21.95 - 23.60 : schistose amphibolite with several cm-thick interlayers of massive pyrite (similar: 13.10 - 13.66 m) and quartzite (similar: 20.50 - 20.90 m) layers.

23.60 - 81.60 : schistose amphibolite
(meta-basalt flow)
gr, fine crystalline, abundant qtz and qtz-carbonate veins, sometimes clusters of qtz which often ~~continue~~ are connected

by qtz veins
~~a network~~. Poikiloblasts of il throughout, the round globular crystals on average being 0.15 cm in diameter.
Strongly folded until about 70.00 m.
Schistosity: 63.50 m 44°, 78.70 m 65°, 80.10 m 45°.

28.40 - 28.55: pyrite-bear. quartzite (meta-chert)
gr, fine crystalline, slightly laminated by trains of granules of py, sulphide amount lesser 1 % by volume of the rock.

29.40 - 29.60: quartzite (meta-chert)
gr, fine crystalline, some schlieren of amphibolite and rare spots of py.

29.87 - 30.05: quartzite (meta-chert)
gr, extremely fine grained, crude development of lamination due to random occurrence of trains of granules of po.
Knife sharp deformed contacts on each side of the band.

68.60 - 68.70: quartzite (meta-chert)
gr with faint violett tint, extremely fine grained, massive.

81.60 m end of DDH

F.D. Priesemann
Mai 1987

Samples for chemical analysis : DDH 57

| [m] | Cu % | Zn % | S % |
|---|---|---|---|
| 12.40 - 13.50 | trace | 0.10 | 29.4 |
| 15.25 - 15.40 | trace | 0.20 | 26.4 |
| 20.50 - 23.65 | trace | 0.20 | 12.8 |

Süsceptibility DDH 59 (Scintrex SM-5)

Results in $10^{-3}$ cgs

| [m] | |
|---|---|
| 81.40 | 0.2 |
| 80.40 | 0.2 |
| 79.40 | 0.0 |
| 78.30 | 0.1 |
| 77.40 | 0.1 |
| 76.20 | 0.1 |
| 75.10 | 0.3 |
| 74.00 | 0.1 |
| 73.00 | 0.0 |
| 72.00 | 0.0 |
| 71.00 | 0.1 |
| 70.00 | 0.0 |
| 69.00 | 0.3 |
| 68.00 | 0.0 |
| 67.00 | 0.0 |
| 66.00 | 0.0 |
| 65.00 | 0.1 |
| 64.00 | 0.2 |
| 63.00 | 0.1 |
| 62.00 | 0.0 |
| 61.00 | 0.0 |
| 60.00 | 0.1 |
| 59.00 | 0.2 |
| 58.00 | 0.1 |
| 57.00 | 0.0 |
| 56.00 | 0.0 |
| 55.00 | 0.1 |
| 54.00 | 0.0 |
| 53.00 | 0.1 |
| 52.00 | 0.0 |
| 51.00 | 0.0 |
| 50.00 | 0.0 |
| 49.00 | 0.0 |
| 48.00 | 0.0 |
| 47.00 | 0.1 |
| 46.00 | 0.0 |
| 45.00 | 0.2 |
| 44.00 | 0.1 |
| 43.00 | 0.0 |
| 42.00 | 0.0 |
| 41.00 | 0.0 |
| 40.00 | 0.1 |
| 39.00 | 0.2 |
| 38.00 | 0.0 |
| 37.00 | 0.0 |
| 36.00 | 0.0 |
| 35.00 | 0.1 |
| 34.00 | 0.1 |
| 33.00 | 0.0 |
| 32.00 | 0.1 |
| 31.00 | 0.0 |
| 30.00 | 0.0 |

→ listen begynner her

| | |
|---|---|
| 0.00 | 00 |
| 1.30 | 0.1 |
| 2.20 | 0.4 |
| 3.25 | 0.2 |
| 4.30 | 0.2 |
| 5.20 | 0.3 |
| 6.00 | 0.2 |
| 7.00 | 0.4 |
| 8.00 | 0.2 |
| 9.00 | 0.2 |
| 10.00 | 0.0 |
| 11.00 | 0.1 |
| 12.00 | 0.1 |
| 13.00 | 0.1 |
| 13.30 | 0.5 |
| 13.85 | 0.0 |
| 14.00 | 0.0 |
| 15.00 | 0.0 |
| 16.00 | 0.0 |
| 17.00 | 0.0 |
| 18.00 | 0.0 |
| 19.00 | 0.0 |
| 20.00 | 0.0 |
| 20.50 | 0.7 |
| 20.70 | 0.0 |
| 21.10 | 0.0 |
| 21.30 | 0.1 |
| 21.90 | 0.4 |
| 22.00 | 0.5 |
| 22.40 | 0.1 |
| 22.80 | 0.0 |
| 23.10 | 0.0 |
| 23.30 | 0.3 |
| 23.65 | 0.2 |
| 23.80 | 0.2 |
| 24.00 | 0.0 |
| 25.00 | 0.0 |
| 26.00 | 0.0 |
| 27.00 | 0.0 |
| 28.00 | 0.0 |
| 28.45 | 0.1 |
| 29.00 | 0.0 |
| 29.45 | 0.0 |
| 29.90 | 0.0 |

# DIAMOND DRILL HOLE 71

Tverrfjellet mine, Folldal Verk a/s
Exploration hole drilled in 1965
Location: 2660 V, 1295 N
Inclination: 50°
Total length: 107.00 m, 5.80 m overburden

Description:

0.00 - 5.80 overburden

5.70 - 21.00 garnet - biotite - sericite schist
(meta-pelite)
Tectonic brecciated structure from 20.40 m
until contact with following rock.
schistosity: 40°

21.00 - 22.70 calcareous sericite - amphibole - chlorite
schist (garbenschist, close to banded amph.)
(metamor. mafic volcanic sediment mixed
with epiclastic sedimentary material)
gn to grgn, randomly oriented lenticular
needles of amphibole on average
0.4 cm in long dimension are inhomogeneously distributed within a matrix
composed of fine fibrous chlorite and
sericite.
Gradational contact.

22.70 - 23.30 calcareous biotite bear. qtz-rich chlorite-sericite phyllite
(meta-pelite with volcanic impurity)
greenishgr, schlieren texture, phyllosilicates
compose schlieren and irregular shaped
clusts ~~being~~ which are surrounded by fine
crystalline qtz and carbonate. Biotite
is scarce and exists as bundles which

are widely scattered.

23.30 - 24.50 calcareous biotite-amphibole bear.
chlorite phyllite
(metamorph. pelitic sediment composed
predominately of volcanic decomposition compounds)
pale green, widely developed schlieren
texture, fine grained granoblastic
qtz and carbonate as lenses and
schlieren in alternation with bands
and schlieren composed of fine fibrous
chlorite and tiny acicular crystals
of amphibole.
schistosity: 45°
sharp contact.

24.50 - 25.20 high calcareous sericite-chlorite schist
(metamor. altered volcano-sedimentary
rock)
palegn, chicken-wire texture, spots
of carbonate are surrounded by
crystalaggregates of phyllosilicates.
sharp contact.

AA
carbonization
sericitization

25.20 - 26.20 calcareous biotite - amphibole bear.
chlorite phyllite
similar: 23.30 - 24.50 m.
gradational contact

| | |
|---|---|
| 26.20 - 26.85 | qtz-fspar rich amphibolite<br>(meta-basalt flow)<br>grgn, medium crystalline, tiny needles of amphibole compose a tight network filled by plagioclase and qtz. sparse spots of py<br>Gradational contact. |
| 26.85 - 28.00 | calcareous amphibole bear. chlorite phyllite<br>similar: 23.30 - 24.50 m.<br>Gradational contact. |
| 28.00 - 30.00 | calcareous sericite bear. qtz-fspar rich amphibole chlorite schist<br>(garbenschist, close to banded amph)<br>similar: 21.00 - 22.70 m.<br>Gradational contact. |
| 30.00 - 30.30 | high calcareous biotite-amphibole bear. qtz-rich chlorite-sericite phyllite<br>similar: 22.70 - 23.30 m<br>Gradational contact |
| 30.30 - 34.85 | calcareous qtz-fspar rich amphibole-chlorite rock/gneiss (banded amph)<br>(metamor. mafic volcanic sediment)<br>gn, grgn, porphyroblastic texture, |

widely developed compositional banding, fine crystalline groundmass of chlorite, qtz, fspar and epidote, amphibole occurs as acicular crystals on average 0.2 cm in long dimension which are oriented at random, carbonate is sometimes finely dispersed but normally occurs with round globular spots.

gradational boundary.

34.85 - 35.05 high calcareous biotite-amphibole bear. qtz-chlorite gneiss

A (metamor. mafic tuff with interlayers

chloritization of chemical precipitates)

gn-gr banding, cm-thick layers mainly composed of fine-fibrous chlorite alternate with tiny bands composed of qtz and carbonate, one thick band of qtz-carbonate occurs also, pyrite is scarce forming widely scattered clusters.

layering 68°

gradational contact.

| | |
|---|---|
| 35.05 - 35.30 | calcareous amphibolite<br>(meta-basalt flow)<br>gn, medium crystalline, widely developed leopard texture.<br>Sharp contact. |
| 35.30 - 35.60 | calcareous pyrite-rich chlorite-amphibole gneiss<br>(metamor. basaltic tuff with sulphide interlayers)<br>gn, inhomogeneous, clusters and bands of pyrite set in a matrix mainly composed of amphibole.<br>Sharp contact. |
| 35.60 - 39.30<br><br>A and<br>AA<br>carbonization<br>chloritization | high calcareous amphibole-chlorite-qtz-fspar rock/gneiss (similar banded amph.)<br>(metamor. mafic volcanic sediment with high amount of felsic compounds. Different degrees in hydrothermal alteration)<br>similar in texture: 30.30 - 34.85 m |
| 39.30 - 40.75 | calcareous amphibole-chlorite rock (banded amph.)<br>similar: 21.00 - 22.70 m. Cm-thick band of massive sulphide at 40.10 m. |

40.53 - 40.65. Pyrite bear. quartzite (meta-chert)

Sharp contact.

40.75 - 41.90 high calcareous amphibole bear. chlorite phyllite
similar: 23.30 - 24.50 m strong carbonate enrichment within lowermost part of the section.

A
carbonization

Sharp contact.

41.90 - 44.50 calcareous amphibole - qtz - fspar - chlorite gneiss (banded amphibolite)
(metamor. mafic volcanic sediment partly being strongly altered)
gn, widely developed compositional banding, ~~mainly~~ fine crystalline ~~but~~ without amphibole ~~as~~ which forms randomly oriented porphyroblasts, the acicular crystals on average 0.2 cm in long dimension. Pyrite is scarce, it forms trains of granules between 43.05 - 43.30 m and 43.80 - 43.85 m (5% by volume of the rock)
layering: 65°
gradational contact.

44.50 - 45.45 calcareous to high calcareous plag-amphibolite
(meta-basalt flow)
gr, leopard texture, lense-like crystal aggregates of amphibole set in a matrix composed of qtz, fspar and epidote. Abundant round globular spots of carbonate.

Sharp contact.

45.45 - 50.65 high calcareous amphibole-biotite bear. chloritic and sericitic qtz-fspar rock/schist
(metamor. highly altered volcanite, tuff or tuffite)
yellowish gr, flaser texture, scattered flasers of phyllosilicates sometimes being accompanied by amphibole set in a fine crystalline matrix composed of felsic minerals as: being carbonate, qtz and fspar.

AA
carbonization
chloritization
sericitization

Sharp contact

50.65 - 54.30 calcareous amphibole bear. chlorite phyllite
similar 23.30 - 24.50 m Scattered tiny crystals of ilmenite throughout.
Gradational contact.

54.30 - 60.50 calcareous qtz-fspar rich amphibole-chlorite gneiss (close to banded amphibolite)

similar: 41.90 - 44.50m.

55.85 - 56.50: chlorite-amphibole-pyrite gneiss (metamor. mafic tuff with exhalative sulphide)
gn, rhythmic cm-banding, alternation of amphibole-chlorite layers and bands rich in pyrite. Amphibol typically forms acicular crystals which are set in a fine crystalline matrix of chlorite. Pyrite amounts to 10 % by volume of the rock.

Sharp contacts.

60.50 - 63.10 schistose amphibolite
(meta-basalt flow)
gn to grgn, medium crystalline, abundant qtz veining, stringers of carbonate, some areas with chlorite alteration.

Gradational contact

| | |
|---|---|
| 63.10 - 64.70<br>A<br>carbonization<br>chloritization<br>sericitization | calcareous to high calcareous amphibole bear. sericite - chlorite - qtz - fspar rock<br>(metamor. altered volcanite)<br>grgr, schlieren texture, qtz and carbonate form lenses, schlieren and flasers which are set in a fine crystalline matrix composed mainly of chlorite.<br>gradational contact. |
| 64.70 - 65.32<br>chem. ana. | amphibole bear. qtz - pyrrhotite rock<br>(metamor. chemical precipitate)<br>brown with metallic luster, high-grade po mineralization set in a matrix of qtz, amphibole occurs sporadically with acicular crystals which tend to touch each other.<br>Sharp border |
| 65.32 - 65.72<br>AA<br>biotitization<br>chloritization | calcareous garnet - chlorite - amphibole - biotite qtz rock<br>(metamor. highly altered volcanic)<br>grbrown, porphyroblastic texture, acicular ~~needles~~ crystals of amphibole and bundles of biotite surrounded by ~~a~~ fine crystalline chlorite and |

qtz. Tiny, scattered idioblasts of garnet throughout.

gradational contact.

65.72 – 74.52 calcareous to high calcareous amphibole - chlorite gneiss (banded amphibolite which shows various degrees in alteration) (metamor. mafic volcanite, supp. tuff, with interlayers of chemical precipitates)

A
locally AA
carbonitation
chloritization

gn. porphyroblastic texture, crude development of compositional banding, discontinuous bands and schlieren made by fine crystalline qtz alternate with cm- to dm- thick layers composed of fine fibrous chlorite and porphyroblasts of amphibole which are oriented at random. Carbonate forms either scattered poikiloblasts or schlieren and lenses. Widely scattered porphyroblasts of garnet exist within the upper part of the section near to the highly altered volcanite.

chemical precipitates of mt-quartzite or sulphide-enriched quartzite occur at: 66.00 - 66.36 m, 67.35 - 67.43 m, 65.82 - 65.86 m, 68.76 - 68.80 m, 70.38 - 70.57 m, 70.64 - 71.35 m alternation of mt-quartzite bands and mafic layers.

Sharp contact.

74.52 - 76.34 calcareous chlorite phyllite

similar: 23.30 - 24.50 m

sharp contact: 90°

76.34 - 76.45 amphibole - chlorite - qtz - pyrrhotite gneiss (metamor. chemical precipitate) gr-brown with distinct metallic lustre, schlieren texture, close alternation of bands made by po and qtz, qtz and amphibole and amphibole and chlorite.

Sharp contact

76.45 - 77.72 high calcareous amphibole - chlorite gneiss

similar: 65.72 - 74.52 m.

77.72 - 83.80 high calcareous biotite - chlorite schist (metamor. highly altered mafic volcanite, supp. basalt flow) gn, fine-crystalline, groundmass consists of fine fibrous Mg-rich chlorite. Biotite forms scattered large bundles which are oriented at random. Carbonate occurs either as veins and,

AA
carbonisation
chloritization

veinlets and lenses or as giant spots. Sparse bands and stringers of qtz

small scale folding throughout.
Sharp contact.

83.80 - 84.55 sulphide - rich quartzite
(metamor. exhalite, may be part of stringer mineralization)
gr brown with metallic lustre, high-grade po mineralization and sparse tiny blebs and veinlets of cpy set in a fine crystalline matrix composed of qtz.
Gradational contact.

84.55 - 87.85 sulphide ore
(metamor. exhalative sulphide deposit)
grgn with metallic lustre, homogeneous, spotted appearence of sulphides set in a fine crystalline matrix composed of qtz.

Gradational boundary

87.85 - 88.85 calcareous to high calcareous mt-bear. chlorite - biotite schist
(metamor. highly altered mafic volcanic)
greenishbr, coarse crystalline, closely

++
carbonatization
chloritization
biotitization

packed bundles of biotite surrounded by chlorite and carbonate which form schlieren, lenses or sometimes clusters. Magnetite occurs as widely scattered porphyroblasts on average 0.2 cm in diameter and often with idiomorphic outlines.
Sharp boundary.

88.85 - 100.95 sulphide ore
similar: 84.55 - 87.85 m
Sharp disformed boundary.

100.95 - 107.00 high calcareous chlorite schist
(metamor. highly altred mafic volcanic)
(see also DDH 69 72.10 - 73.10 m)
gn with abundant reddish brown schlieren, schlieren texture, schlieren and trains of granules of carbonate set in a matrix of fine fibrous chlorite.

107.00 m end of DDH

F.D. Priesemann
Nov 1987

Chemical analysis of sulphide mineralizations, DDH 71.

| [m] | % Cu | % Zn | % S |
|---|---|---|---|
| 65.00 - 65.70 | 0.16 | 0.10 | 25.0 |
| 84.00 - 101.00 | 1.16 | 1.10 | 37.1 |

## Whole rock analysis

| prøver | [m] |
|---|---|
| TV - 71 - 1 | 48.20 - 48.80 |
| TV - 71 - 3 | 65.32 - 65.70 |
| TV - 71 - 7 | 71.35 - 71.80 |
| TV - 71 - 8 | 79.50 - 79.85 |
| TV - 71 - 9 | 82.10 - 82.85 |
| TV - 71 - 10 | 87.90 - 88.00 |
| TV - 71 - 11 | 88.45 - 88.55 |
| TV - 71 - 12 | 106.10 - 106.70 |

Suszeptibility DDH 71, Tverrfjellet
Results in $10^{-3}$ cgs

| [m] | |
|---|---|
| 40.00 | 0.2 |
| 40.10 | 0.3 |
| 40.50 | 0.2 |
| 40.60 | 0.3 |
| 40.90 | 0.1 |
| 42.00 | 0.1 |
| 43.00 | 0.1 |
| 44.00 | 0.0 |
| 45.00 | 0.0 |
| 46.00 | 0.3 |
| 47.00 | 0.0 |
| 48.00 | 0.0 |
| 49.00 | 0.0 |
| 50.00 | 0.0 |
| 51.00 | 0.0 |
| 52.00 | 0.0 |
| 53.00 | 0.0 |
| 54.00 | 0.0 |
| 55.00 | 0.0 |
| 55.80 | 1.8 |
| 56.10 | 1.0 |
| 56.30 | 0.9 |
| 56.90 | 0.4 |
| 57.40 | 0.2 |
| 58.00 | 0.2 |
| 59.00 | 0.2 |
| 59.50 | 0.3 |
| 60.00 | 0.0 |
| 61.00 | 0.0 |
| 62.00 | 0.0 |
| 63.00 | 0.0 |
| 64.00 | 0.0 |
| 64.75 | 0.7 |
| 64.90 | 1.9 |
| 65.15 | 2.3 |
| 65.30 | 3.6 |
| 65.65 | 1.0 |
| 65.84 | 4.8 |
| 65.95 | 0.9 |
| 66.15 | 5.0 |
| 66.30 | 1.3 |
| 66.50 | 1.0 |
| 66.75 | 4.3 |
| 66.90 | 1.3 |
| 67.15 | 0.8 |
| 67.35 | 42.0 |
| 67.40 | 9.0 |
| 67.50 | 1.2 |
| 67.80 | 0.2 |
| 68.10 | 1.1 |
| 68.50 | 0.6 |
| 68.70 | 0.4 |
| 69.10 | 0.2 |
| 69.50 | 0.3 |
| 69.95 | 0.6 |
| 70.10 | 0.2 |
| 70.30 | 24.5 |
| 70.70 | 1.2 |
| 70.80 | 27.5 |
| 71.10 | 32.5 |
| 71.50 | 0.3 |
| 71.80 | 0.4 |
| 72.25 | 0.2 |
| 72.75 | 0.4 |
| 73.15 | 0.4 |
| 73.80 | 0.4 |
| 74.20 | 0.1 |
| 74.50 | 0.0 |
| 75.50 | 0.0 |
| 76.10 | 0.0 |
| 76.40 | 1.4 |
| 76.75 | 0.3 |
| 77.10 | 0.8 |
| 77.50 | 0.0 |
| 77.95 | 0.0 |
| 78.15 | 0.0 |
| 78.60 | 0.0 |
| 79.15 | 1.1 |
| 79.80 | 0.1 |
| 80.20 | 0.1 |
| 80.55 | 0.1 |
| 80.95 | 0.1 |
| 81.25 | 0.1 |
| 81.75 | 0.1 |
| 82.20 | 0.0 |
| 82.85 | 0.1 |
| 83.40 | 0.0 |
| 83.75 | 0.0 |
| 83.85 | 1.5 |
| 83.95 | 0.4 |
| 84.10 | 1.4 |
| 84.40 | 1.1 |
| 84.60 | 0.0 |
| 84.75 | 0.9 |
| 84.95 | 0.0 |
| 85.10 | 0.0 |
| 85.50 | 0.0 |
| 85.80 | 0.0 |
| 86.15 | 0.1 |
| 86.85 | 0.2 |
| 87.40 | 0.0 |
| 87.85 | 0.2 |
| 87.90 | 0.1 |
| 88.30 | 1.8 |
| 88.60 | 2.3 |
| 89.10 | 1.2 |
| 89.50 | 0.7 |
| 89.85 | 2.0 |
| 90.15 | 6.6 |
| 90.80 | 3.0 |
| 91.10 | 0.0 |
| 91.65 | 5.3 |
| 92.20 | 0.3 |
| 92.85 | 0.0 |
| 93.05 | 0.2 |
| 93.60 | 0.1 |
| 94.40 | 0.1 |
| 94.80 | 0.0 |
| 95.35 | 0.3 |
| 95.95 | 0.1 |
| 96.15 | 1.3 |
| 96.50 | 0.1 |
| 96.85 | 2.6 |
| 97.30 | 1.2 |
| 97.80 | 1.1 |
| 98.20 | 1.5 |
| 98.50 | 0.6 |
| 98.80 | 1.2 |
| 99.15 | 1.1 |
| 99.65 | 7.4 |
| 100.10 | 0.1 |
| 100.65 | 1.6 |
| 101.10 | 0.0 |
| 101.95 | 0.0 |
| 102.20 | 0.2 |
| 106.75 | 0.1 |

# DIAMOND DRILL HOLE 47

Tverrfjellet, west slope
Date of drilling: 23/9 - 29/9 1965
Location: 3100 V 1860 N
Azimuth: grid north
Inclination: 50°
Total length: 63.60 m

Description:

| | |
|---|---|
| 8.50 m | overburden |
| 0.00 - 024 : | schistose amphibolite<br>(meta-basalt flow)<br>gn, fine crystalline, nematoblastic texture, some crosscutting veinlets filled by qtz.<br>sharp contact. |
| 0.24 - 0.65 : | chlorite bear. amphibole schist<br>(meta-basalt flow)<br>gn, medium crystalline, nematoblastic texture, abundant interlayers and schlieren rich in chlorite.<br>Sharp contact. |
| 0.65 - 2.90 : | high calcareous qtz-fspar-chlorite-amphibole schist/gneiss<br>(metamor. mafic volcanogenic |

sediment)(close to banded amphibolite)
similar: 15.38 - 22.75 m DDH 46.

2.90 - 5.57 : schistose amphibolite
(meta-basalt flow)
similar: 0.24 - 0.65 m, in places very rich in carbonate.

5.57 - 7.90 : calcareous chlorite amphibole schist
(metamor. mafic volcanogenic sediment with basaltic lava interbeds)
gn to grgn, nonrhythmic alternation of sections rich in carbonate, qtz, fspar and chlorite with layers of calcareous amphibole schist which often have interlayed schlieren of chlorite. At several locations sulphide mineralizations: 5.57 - 6.10 m schlieren and laminae of po (3 Vol-%), 6.55 m schlieren of po, 6.85 m spots and clusters of po, 7.45 - 7.64 m discontinuous bands, trains of granules and layers of po (average 5 Vol-%, massive po-band at 7.45 - 7.48 m).

Gradational boundary.

| | |
|---|---|
| 7.90 - 13.10 | schistose amphibolite<br>(meta-basalt flow)<br>gr. medium crystalline, nematoblastic texture, several bands and veinlets filled by qtz.<br>Sharp contact. |
| 13.10 - 13.85 | calcareous chlorite bear. amphibole schist<br>(metamor. mafic volcanogenic sediment)<br>similar: 22.75 - 25.26 m DDH 46. |
| 13.85 - 25.80 | schistose amphibolite<br>(meta-basalt flow)<br>similar: 7.90 - 13.10 m, local occurrence of schlieren and clusters of po: 22.57 - 22.67 m, 22.73 - 22.90 m also some py, 23.00 - 23.05 m.<br>Gradational boundary |
| 25.80 - 36.00 | schistose amphibolite<br>(meta-basalt flow)<br>similar 0.00 - 15.32 m DDH 46, schlieren and clusters of po at following locations: 27.28 - 27.52 m, 27.82 - 27.87 m, 29.23 m |

36.00 - 44.00 : schistose amphibolite
(meta-basalt flow)
similar: 42.00 - 50.12 m DDH 46, locations with low-grade po mineralization or singel clusters or schlieren of po: 36.00 - 36.15 m, 36.35 m, 36.70 m, 39.20 m, 39.43 m, 39.45 m, 39.51 m, 40.56 m, 40.70 m, 41.16 m, 45.90 - 45.97 m

44.00 - 55.10 : schistose amphibolite
(meta-basalt flow)
similar: 50.12 - 69.00 m DDH 46, occurrences of sulphide: 49.25 m clusters of py.

55.10 m end of DDH

F. D. Priesemann
Nov. 1987

# Longitudinal section Malmzone I

c = high carbonaceous, carbonate often as spots, euhedral outlines

A = altered rock, basalt: beginning decomposition of plag and amphibole, secondary products are biotite (pseudomorph amph.), chlorite and carbonate

qtz keratophyr: biotite instead of amphibole slightly carbonaceous, result from decompos. of plag.

andesite to dacite: more green chlorite, slightly carbonaceous, result from decomposition of plag.

high A = high altered rock, basalt: biotite - chlorite or chlorite rock with or without carb., chlorite high in Fe (dark coloured), biotite mainly in clusters, large laths

Iverfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

| From | To | Description BH-5 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 15.40 | altered basaltic tuff | | | | | | | | | |
| | | chlorite-biotite-plagioclase-amphibole schist | | | 45° | | | | | | |
| | A | gr. medium crystalline, well layed, laminated | | | | | | | | | |
| | | sections, homogeneous with in places inhomogeneous | | | | | | | | | |
| | | sections, biotite and chlorite grain agglomerates, | | | | | | | | | |
| | | biotite clusters some times massive stringers | | | | | | | | | |
| | | 0.00 - 5.00: wet spots | | | | | | | | | |
| | | 11.30 - 15.40: wet spots | | | | | | | | | |
| | | 8.35 - 8.40: layer of qtz-keratophyr | | | | | | | | | |
| A to even high A | | 13.61 - 15.40: agglomeratic section | | | | | | | | | |
| | | bombs of qtz-keratophyr | | | | | | | | | |
| 15.40 | 36.50 | altered basalt flow | | | 65° | | | | | | |
| | | slightly carbonaceous chlorite-biotite amphibolite | | | | | | | | | |
| | | gr. fine grained, slightly schistose, mainly | | | | | | | section correlates good with | | |
| | | homogeneous, stringy biotite enrichment, some | | | | | | | BH 29 section<br>beyond mafic horizon | | |
| | | stringy or veiny carbonate, often alternation of | | | | | | | | | |
| | | minor altered and highly altered layers (cm size), | | | | | | | | | |
| | | bio pseudomorph amphibole in large not orientated | | | | | | | | | |
| | | crystals. | | | | | | | | | |
| | | 16.30 - 16.35: qtz-keratophyr band | | | | | | | | | |
| | | wallrock basalt here high A and rich in carb | | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

PAGE 2

| From | To | Description BH-5 | DDH No. | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 15.40 - 16.50: giant spots - often euhedral out- | | | | | | | | | |
| | | lines - of mt | | | | | | | | | |
| | | 28.10: bombs of qtz-keratophyr | | | | | | | | | |
| | | 31.00: " | | | | | | | | | |
| high A | | 29.80 - 36.25: highly altered section | | | | | | | | | |
| | | slightly carbonaceous bio bearing chlorite schist | | | | | | | | | |
| | | gn. fine grained very light mat., laminated | | | | | | | | | |
| | | 33.50 - 33.85: qtz-keratophyr | | | 70° | | | | | | |
| | | finest py disseminations | | | | | | | | | |
| | | often arranged to small | | | | | | | | | |
| | | layers, content 5Vol-% | | | | | | | | | |
| | | 33.99 - 34.30: qtz-keratophyr tuff | | | | | | | | | |
| | | small interlayers of altered | | | | | | | | | |
| | | basalt, hanging portion | | | | | | | | | |
| | | agglomeritic. | | | | | | | | | |
| | | 34.50 - 34.55: qtz-keratophyr | | | | | | | | | |
| | | disseminated py-min | | | | | | | | | |
| | | 2 Vol-% | | | | | | | | | |
| section III | | 36.35 - 36.40: qtz-keratophyr tuff with interlayers | | | | | | | | | |
| ↑ | | of altered basalt | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 3

| From | To | Description BH-5 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36.50 | 41.05 | dacitic lapilli tuff and tuff | | | 60° | | | | | | | |
| | | qtz-plagioclase biotite-chlorite schist | | | | | | | | | | |
| section V | | light gr., fine grained, laminated to layered in | | | | | | | | | | |
| | | cm scale, lapilli intervals, towards hanging | | | | | | | | | | |
| | | slowly out dying of iron rich chlorite (basaltic), decrease in chlorite towards sericite | | | | | | | | | | |
| | | 37.00 - 37.08: py ore disseminated min. of 70 Vol-% | | | | | | | | | | |
| | | bound to qtz-keratophyr | | | | | | | | 39.00 good corr. | | |
| | | 37.70: band of massive py in qtz-keratophyric inter | | | | | | | | with 68.00-68.50 of BH 29 | | |
| | | layer. | | | | | | | | | | |
| | | 39.00 - 39.26: qtz-keratophyr | | | | | | | | | | |
| | | 39.80: spots of py in qtz-keratophyr interlayer | | | | | | | | | | |
| 41.05 | 60.10 | dacitic flow to tuff (lapilli) | | | | | | | | | | |
| | | carbonate bearing and carb. qtz-plag-chlorite-sericite schist/rock | | | | | | | | | | |
| | | lightgreenishgr. fine to extremely fine grained, homogeneous, | | | | | | | | | | |
| | | massive to widely schistose, in places laminated, | | | | | | | | | | |
| | | mainly lense-like<br>spots of carbonate, carb content decreasing towards | | | | | | | | | | |
| | | hanging | | | | | | | | | | |
| | | 46.90: bomb of translucent qtz | | | | | | | | | | |
| | | 48.40 : " | | | | | | | | | | |
| | | 53.95 - 56.35: qtz-keratophyr | | | | | | | | | | |
| | | biotite qtz-feldspar rock | | | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description Bt-5 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | whitegr, extremely fine grained, homogeneous, | | | | | | | | | |
| | | massive, biotite enriched in veiny features. | | | | | | | | | |
| | | 57.75 - 58.50: dacitic to andesitic unit | | | | | | | | | |
| | | qtz-feldspar-biotite-amphibole-chlorite schist | | | | | | | | | |
| | | light gn, fine grained with porphyric amphibole, | | | | | | | | | |
| | | huge laths of 3.0 cm size randomly orientated, | | | | | | | | | |
| | | well banded and layered section. | | | | | | | | | |
| | | 58.50 - 59.70: qtz-Keratophyr | | | | | | | | | |
| | | see above, interbedded some translucent qtz. | | | | | | | | | |
| 60.10 | 63.15 | altered basalt flow | | | | 45° | | | | | |
| | | carbonaceous chlorite amphibolite | | | | | | | | | |
| A/C | | gn, medium grained, pisolithic amphibole | | | | | | | | | |
| | | randomly orientated, massive to weakly schistose, | | | | | | | | | |
| | | homogeneous, to the hanging overgoing in highly | | | | | | | | | |
| | | altered basalt | | | | | | | | | |
| | | 62.00 - 63.15: highly altered basalt | | | | 65° | | | | | |
| high A/C | | carbonaceous biotite-chlorite schist | | | | | | | | | |
| | | gn, fine grained, well layered - laminated, | | | | | | | | | |
| | | homogeneous, spotted biotite crystals | | | | | | | | | |
| | | pseudomorph amphibole. | | | | | | | | | |
| | | 62.60 - 62.85: qtz-Keratophyr | | | | | | | | | |

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# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

PAGE 5

| From | To | Description BH-5 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63.15 | 65.40 | qtz-keratophyr | | | | | | | | | |
| | | qtz. feldspar rock | | | | | | | | | |
| | | whitegr, extremely fine grained, massive to weakly | | | | | | | | | |
| | | orientated (mafics), some lath of amphibole, | | | | | | | | | |
| | | rare spots of py | | | | | | | | | |
| | | 63.45-63.80: highly altered basalt | | | | | | | | | |
| high A | | amphibole - chlorite - biotite schist | | | | | | | | | |
| | | br to brgr, fine grained, laminated, | | | | | | | | | |
| | | homogeneous | | | | | | | | | |
| 65.40 | 66.50 | dacitic tuff | | | | | | | | | |
| | | qtz-feldspar biotite - chlorite schist | | | | | | | | | |
| high A | | light gr to brish gr, fine grained with clusters | | | | | | | | | |
| | | of biotite randomly orientated, inhomogeneous | | | | | | | | | |
| | | in places grading to andesitic composition than | | | | | | | | | |
| | | further in qtz-keratophyric comp. | | | | | | | | | |
| 66.50 | 68.70 | altered and high altered basalt | | | | | | | | | |
| high A | | slightly carb. biotite-chlorite rock | | | | | | | | extremely corr. | |
| | | gn to brgn, medium grained increasing towards | | | | | | | | with section<br>148.00 - 156.20 BH 29 | |
| | | the hanging, massive homogeneous, biotite may | | | | | | | | | |
| | | well pseudomorph amphibole. | | | | | | | | | |
| | | 67.30-67.55: qtz-keratophyr | | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH-5 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| | | qtz-feldspar rock | | | | | | | | | | |
| | | whitegr, ett. fine grained, laminated | | | 90° | | | | | | | |
| | | by finest diss of py arranged to | | | | | | | | | | |
| | | bands. 2 Vol-% | | | | | | | | | | |
| 68.70 | 69.60 | qtz-keratophyr | | | | | | | | | | |
| A | | sericite- Biotite- qtz- feldspar rock | | | 30° | | | | | | | |
| | | whitegr. fine grained with clusters of biotite | | | | | | | | | | |
| | | later arranged to bands, stringers, flasers | | | | | | | | | | |
| | | some small scale zick-zack folding | | | | | | | | | | |
| 69.60 | 75.50 | dacitic flow | | | 60° | | | | | | | |
| | | carbonate bearing sericite chlorite schist/rock | | | | | | | | | | |
| | | light gr. fine grained, laminated to sometimes | | | | | | | | | | |
| | | massive, homogeneous, carbonate as | | | | | | | | | | |
| | | lenticular features. footwal section obviously | | | | | | | | | | |
| section V | | lapilli tuff. hanging wall folded and medium | | | | | | | | | | |
| | | grained and some biotite | | | | | | | | | | |
| | | 75.05 - 75.06: py ore band | | | | | | | | | | |
| 75.50 | 79.76 | ore zone | | | | | | | | | | |
| | | 75.50 – 76.07: py ore | | | | | | | | | | |
| VI | | 76.07 - 76.85: qtz-keratophyr | | | | | | | | | | |
| | | qtz-feldspar rock | | | | | | | | | | |

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## DIAMOND DRILL LOG

Tverrfjellet

FOLLDAL VERK A/S

| From | To | Description BH-5 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | whitegr. extr. fine grained, massive, | | | | | | | | | |
| | | sometimes translucent qtz, finest | | | | | | | | | |
| | | disseminated py mineralization | | | | | | | | | |
| | | arranged in wild bands or | | | | | | | | | |
| | | clots | | | | | | | | | |
| | | 76.85 - 79.76 : py ore | | | | | | | | | |
| 79.76 | 161.50 | basalt section | | | | | | | | | |
| | | 79.76 - 80.90 : high altered basalt | | | | | | | | | |
| high A/C | | high carbonaceous biotite - chlorite rock | | | | | | | | | |
| | | gr to grgn, medium grained, very in- | | | | | | | | | |
| section VII | | homogeneous, carbonate as typical | | | | | | | | | |
| | | spots but to in huge granular | | | | | | | | | |
| | | aggregates or fuzzy bodies, biotite | | | | | | | | | |
| | | strong pseudomorph amphibole, | | | | | | | | | |
| | | some interlayers of qtz and plag., slowly incoming amphibole towards hanging | | | | | | | | | |
| | | 80.75: agglomeritic basalt | | | | | | | | | |
| | | lapilli of qtz-keratophyre | | | | | | | | | |
| | | 80.90 - 83.50 slightly altered basalt flow | | | | | | | | | |
| | | chlorite bearing ↑ plagioclase amphibolite | | | | | | | | | |
| | | grgn. medium to slightly coarse | | | | | | | | | |
| | | grained, [illegible] amphibole, massive to widely banded | | | | | | | | | |

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 5 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|

spots or giant spot of py throughout
total amount < 1Vol-%, sometimes
lapilli of qtz-keratophyre rimmed by spotted
py

83.50 – 109.80 : basalt flow (slightly altered)
carbonaceous: plag amphibolite (see above but no py spotted and more layered) interlayers plus sections of porphyritic basalt
86.00 – 88.90: highly altered to altered basalt in alternation
high A/C to A/C
with py ore and qtz-keratophyre
86.00 - 86.15: massive py ore
86.35 - 86.55: qtz-keratophyre
spotted py and po mineralization
arranged in places in lamina of
mm layers, some rare py spots, total 2Vol-%
irregular carbonate as big spots
and stringers
87.20 - 87.27: massive py ore
87.65 - 87.70: qtz-keratophyre
disseminated py totalling
5Vol-%
87.75 - 88.30: close alternation of py-rich (20 Vol-%)
qtz-keratophyre with altered basalt

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# DIAMOND DRILL LOG

Tverrfjellet

FOLLDAL VERK A/S

PAGE 9

| From | To | Description 3H-5 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|

88.30 - 88.50 : qtz-keratophyr

91.05 - 91.10: massive py-ore

91.30 - 91.75: cm bands of qtz-keratophyr

rich in py diss. (10 Vol-%)

C

91.00 – 109.80 m

93.20 - 94.90: alternation of basalt with

qtz-keratophyr

93.80 - 93.90: py ore in qtz-keratophyr

100.15 - 100.35: qtz-keratophyr 45°

laminae of finest dissemination

of py and [illegible]

total sulphide amount 5Vol-%

105.30 - 105.35: band of massive py surrounded

by qtz-keratophyr

106.30 - 106.95: qtz-keratophyr

high in carbonate, with

bands of massive py ore, besides

that sometimes disseminations

with up to 10Vol-%

(106.40 - 106.50, 106.60 - 106.63, 106.90 - 106.95)

high +/C

highly altered basalt at hang'g wall

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# DIAMOND DRILL LOG

Tverrfjellet

**FOLLDAL VERK A/S**

| From | To | Description BH-6 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|

109.80 - 112.60 : basalt flow

slightly carbonaceous amphibolite schist 45°

gn, fine to in places medium grained,

schistose, homogeneous, some spots

of carbonate sometimes bands of,

in medium grained variations often

ellipsoidal amphibole

112.60 - 128.00 : basalt flow (sometimes tuff)

slightly carb to carb-bear. plagioclase amphibolite 45°

gn to grgn medium grained in places

gradual change to more fine grained

varieties, massive and well foliated to

schistose. higher carb. content always

bound to qtz-keratophyr production,

amphibole as ellipsoides but mainly

poikilitic. homogeneous. alteration within 121.40 - 128.00 m sometimes even high + only dm or even cm sections with alteration other parts only very little decomposed

116.90 - 117.05: qtz-keratophyr

C 117.05 to 117.25 in basalt

2 bands of good py ore, 50 Vol.-%

117.95 - 118.05: "

only one cm band of py

119.85 - 120.05: qtz-keratophyr

some spotted and banded py min., 5 Vol.-% total, 1 Vol.-%

# DIAMOND DRILL LOG

Tverrfjellet

FOLLDAL VERK A/S

PAGE 11

| From | To | Description BH-5 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 120.60: bands of qtz-keratophyr | | | | | | | | |
| | | 120.70 - 120.90: qtz-keratophyr<br>laminae of py, finest disseminations, total 5 Vol-%<br>good ore at 120.85 | | | | | | | | |
| | ⊆<br>121.40-<br>121.80 | in basalt<br>121.90 - 122.10: qtz-keratophyr<br>some bands of better py mineralization,<br>total amount < 1 Vol-% | | | | | | | | |
| | | 122.60 - 123.30: qtz-keratophyr<br>stressed mat with grain agglomerate<br>of amphibole, some irregular py<br>mineralization, total < 1 Vol-% | | | | | | | | |
| | ⊆ in basalt<br>123.30-<br>124.60 | | | | | | | | | |
| | A | /////<br>128.00 - 131.50: basaltic tuff (altered)<br>slightly carb. chlorite-amphibole schist<br>gr. fine grained, well layered, alternation<br>of high altered with slightly altered layers,<br>some lapilli of qtz-keratophyr, here spots of<br>py, sometime spotted carb., inhomogeneous | | 45° | | | | | | |

# DIAMOND DRILL LOG

Tverrfjellet

FOLLDAL VERK A/S

| From | To | Description BH- 5 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 131.50 - 141.50: basalt flow or tuff (sometimes slightly altered) | | | | | | | | |
| | | high carbonaceous plagioclase amphibolite | | 40° | | | | | | |
| | C | gn to grgn. medium grained to slightly coarse, | | | | | | | | |
| | | widely layered, laminated, homogenic in | | | | | | | | |
| | | places than very inhomogeneous, spotted | | | | | | | | |
| | | carbonate, spots of py all through, poikilitic | | | | | | | | |
| | | amphibole | | | | | | | | |
| | | 141.20 - 141.40: qtz-keratophyre laminated by | | | | | | | | |
| | | basaltic mat. | | | | | | | | |
| | | high carbonaceous qtz-plag amphibole rock | | | | | | | | |
| | | 141.50 - 146.60: basalt flow | | 45° | | | | | | |
| | | greenschist, slightly carb. amphibolite | | | | | | | | |
| | | gr. fine crystalline. homogeneous, | | | | | | | | |
| | | carbonate as spots but mainly irregular | | | | | | | | |
| | | veiny features, in places some slightly | | | | | | | | |
| | | alteration with chlorite | | | | | | | | |
| | | 146.60 - 150.20: basalt flow or tuff (in places slightly altered) | | | | | | | | |
| | | high carbonaceous plag. amphibole schist | | | | | | | | |
| | C | gn to grgn. medium to slightly coarse grained, | | | | | | | | |
| | | inhomogeneous in. alteration of areas high | | | | | | | | |
| | | in amphibole or carbonate spotted, some folding | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-5 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 150.20 - 155.00: basalt flow | | | | | | | | |
| | | greenschist see above: 141.50 - 146.60 | | | | | | | | |
| | | 155.00 - 156.20: basaltic tuff | | | | | | | | |
| | C | see above: 146.60 - 150.20 | | | | | | | | |
| | | 156.20 - 161.50 : basalt flow | | 45° | | | | | | |
| | | greenschist see mainly 141.50 - 146.60 | | | | | | | | |
| | | but: in places medium grained with | | | | | | | | |
| | | pisolithic amphibole. here too increase | | | | | | | | |
| | | in carbonate content | | | | | | | | |
| | slight C | 157.50 - 159.10 : carb bearing biotitic and chloritic amphibole schist (tuff) | | | | | | | | |
| | | gn. fine to widely medium grained, | | | | | | | | |
| | | well layered, inhomogeneous, | | | | | | | | |
| | | close alternation of altered and | | | | | | | | |
| | | really unaltered layers with some | | | | | | | | |
| | | bands or lamina of carbonate and | | | | | | | | |
| | | qtz-carbonate, some spotted carb | | | | | | | | |
| 161.50 | 208.10 | 161.50 - 208.10: basalt flow | | | | | | | | |
| | | greenstone, amphibolite | | | | | | | see BH 16 | |
| | | gn. ex. fine grained massive, some irregular crosscutting | | | | | | | section 101.95 m to 157.10 m | |
| | | carbonate and qtz. | | | | | | | adequate min at about 123.00 m | |
| | | 169.20 - 169.40: finest bands of qtz-[illegible] | | | | | | | | |

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH - 5 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | some spotted py, wall rock basalt | | | | | | | | |
| | | carries somewhat higher carb. | | | | | | | | |
| | | 171.95-171.98: qtz-keratophyr | | 30° | | | | | | |
| | | with spots of py 40 Vol.-% | | | | | | | | |
| | | 171.10-171.14: " , 5 Vol.-% | | | | | | | | |
| | | 171.25-171.28: " | | | | | | | | |
| | | 171.75-171.85: qtz-keratophyr | | | | | | | | |
| | | with bands of good ore, py | | | | | | | | |
| | | somewhat higher carbonate in wall rock | | | | | | | | |
| | | 172.40-172.50: qtz-keratophyr | | | | | | | | |
| | | white, massive, little stressed, fissures | | | | | | | | |
| | | filled by py, < 1 Vol-% | | | | | | | | |
| | | 173.15: bomb of qtz-keratophyr | | | | | | | | |
| | | 173.90: cm band of qtz-keratophyr with py | | | | | | | | |
| | | 173.95 - 174.11: py dissemination sometimes of | | | | | | | | |
| | | high grade (60 Vol-%) within basalt | | | | | | | | |
| | | but sometimes accompanied | | | | | | | | |
| | | by qtz-keratophyr | | | | | | | | |
| | | 174.50-174.65: qtz-keratophyr | | | | | | | | |
| | | white, massive, some spotted and | | | | | | | | |
| | | layey py min. altered hanging basalt | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH - 5 | Interval From | Interval To | Assays Cu | Assays Mo | Assays Pb | Assays Zn | Assays Au | Assays Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 175.90: 1 cm band of py within basalt | | | | | | | | |
| | | 177.00 - 177.10: qtz-keratophyr | | | | | | | | |
| | | some spots of py | | | | | | | | |
| | | 177.30: high py, 30 Vol-% within qtz-keratophyr | | | | | | | | |
| | | 177.70 - 177.95: some bands of qtz-keratophyr | | | | | | | | |
| | | with disseminated py mineralization, | | | | | | | | |
| | | 20 Vol-% in bands (177.72, 177.93) | | | | | | | | |
| | | 178.90 - 179.10: qtz-keratophyr | | | | | | | | |
| | | interlayered by cm bands | | | | | | | | |
| | | of good py ore (60-80 Vol-%) | | | | | | | | |
| | | 179.70 - 179.85: qtz-keratophyr | | | | | | | | |
| | | disseminated and stringer | | | | | | | | |
| | | py mineralization, sometimes | | | | | | | | |
| | | grading to good ore (179.75-179.80) | | | | | | | | |
| | | 182.65 - 182.90: qtz-keratophyr and py ore | | | | | | | | |
| | | ore (182.65 - 182.75) | | | | | | | | |
| | | 183.05 - 183.07: qtz-keratophyr | | | | | | | | |
| | | disseminations of py (2 Vol-%) | | | | | | | | |
| | | 183.60 - 183.70: " | | | | | | | | |
| | | 184.10 - 184.35: qtz-keratophyr | | | 60° | | | | | |
| | | well layered with bands | | | | | | | | |
| | | of py ore or higher diss. (ore 184.30 - 184.35) | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH 5 | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|

184.70 - 185.20 : andesitic volc may be mixed basalt + qtz-keratophyr

201.20 : bomb of translucent qtz

203.25 - 203.35 : py-ore

≤ 203.35 - 204.35 : qtz - keratophyr
high carb. biotite - qtz - feldspar rock
yellowish white, extr. fine grained, homogeneous,
bio clots arranged to crudely
orientation.

204.45 - 204.90 : qtz - keratophyr
white, massive, bands of
py ore (60Vol.-%) within (204.45 - 204.50)
and ex. mt laminated interval
at hanging wall

207.40 - 208.00 : qtz - keratophyr 30°
biotite qtz - feldspar rock
greyish white, extr. fine grained, laminated,
often clots of biotite, some bands
of good py ore (207.40, 207.55)

a.o. BH 208.10m

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

| From | To | Description BH-8 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 14.39 | qtz-keratophyr | | | | | | | | |
| | | garnet-amphibole-qtz rock | | | | | | | | |
| | | gr, fine grained dusty matrix, 0.1 to 0.2 cm garnets | | | | | | correlation with | | |
| | | homogeneous spread, amphibole laths of 0.1 to 0.3 cm | | | | | | BH 29 | | |
| | | size randomly orientated, slightly inhomogeneous, | | | | | | garnet section | | |
| | | massive, slightly dacitic at hanging portion, < basaltic section | | | | | | | | |
| IIIII<br>14.39 | 26.00 | basaltic flowtuff (slightly altered) | | 55° | | | | | | |
| | | carb. bear. chlorite-biotite-amphibolite /schist | | | | | | | | |
| ≤<br>14.39 | – 16.00 | gygr, medium grained, homogeneous, crudely | | | | | | | | |
| | | bedded, interlayers of cm size of well altered | | | | | | | | |
| | | basaltic mat, footwal more andesitic and | | | | | | | | |
| may be + | | high in carbonate, idio. crystals, biotite allthrough | | | | | | | | |
| | | at pseudomorphs to amphibole, amphibole | | | | | | | | |
| | | mainly poikilithic | | | | | | | | |
| | | 17.05 – 17.15: band of translucent qtz | | | | | | corr | 71.25 m | BH 29 |
| | | 18.00 – 18.20: spotted mt | | 22.00 | – 26.90 | 〰 strong folding | | | | |
| | | 23.45 – 23.50: band of qtz-keratophyr | | 60° | | | | | | |
| | | 24.60 – 24.70: translucent qtz | | | | | | | | |
| | | 24.90 – 24.98: qtz-keratophyr | | | | | | | | |
| | | whgr, fine grained, massive | | | | | | | | |
| | | 25.90 – 28.00: spotted mt | | | | | | | | |
| | | often idiomorphic, 0.2 – 0.3 cm size | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 2

| From | To | Description BH - 8 | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| 26.00 | 36.60 | basalt (slightly altered) tuff / flow | | | | | | | | |
| | | greenschist | | 70° | | | | | | |
| | | gr. fine grained, laminated, lamina of biotite | | | | | | | | |
| | | and carbonate, biotite often arranged in bigger clots, | | | | | | | | |
| | | 27.85 - 28.00: bomb of translucent qtz | | | | | | | | |
| | | 28.65: bands of qtz - keratophyr | | 70° | | | | | | |
| | | 30.30 - 30.80: basalt mixed with cherty mat | 28.65 - | 30.00 | | 〰 | folded area | | | |
| | | 31.00: bands of qtz - keratophyr | 29.30 - | 29.40 | | fault | ↯ | | | |
| | | 31.50 - 31.60: translucent qtz | | 31.50 | fault | ↯ | | | | |
| | | 31.63 - 31.65: " | 31.70 - | 32.20 | | foliation with minerals | | | | |
| | | 32.30 - 33.60: qtz - keratophyr to translucent qtz | | 60° | | smaller faults ↯ | | | | |
| | | whitegr. extr. fine grained, grainy, | | | | | | | | |
| | | crudely laminated, mainly massive | drilled | fold | | | | | | |
| | | 34.30 - 34.60: " | | | | | | | | |
| | | 35.50 - 35.90: " | | | | | | | | |
| | | 36.25: qtz - keratophyr | | | | | | | | |
| | | 36.50 - 36.55: laminated qtz - keratophyr by basalt | | 65° | | | | | | |
| 36.60 | 37.30 | altered basaltic tuff to andesitic tuff | | | | | | | | |
| | | carb. bear. plag. chlorite - amphibole schist | | | | | | | | |
| | A | ~~gr~~ gr to grgn, medium crystalline, layered, in places | | | | | | | | |
| | | an alternation of basaltic and qtz - keratophyric mat. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-8 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 37.30 | 69.93 | section V. | | | | | | | | |
| | | 37.30 - 37.90: qtz-keratophyr with basalt interlayers (tuff) | | | | | | | corr. | BH 29 |
| | S | inhomogeneous interval, cm banding | | | | | | | 88.50 | - 91.00 m |
| | | of silicified qtz-keratophyr (bio. sericite. chlorite qtz assemblage) | | | | | | | | |
| | | with altered basalt (amphib. chlor. assemblage). | | | | | | | | |
| | | small scale zick zack banding. | | | | | | | | |
| | | sporadically diss of py grading to not more | | | | | | | | |
| | | than 5 Vol-% | | | | | | | | |
| | | 37.90 - 38.85: dacitic lapilli tuff | | | | | | | corr. | BH-29 |
| | | qtz-fspar biotite-chlorite schist | | | | | | | 91.20 | - 96.40 m |
| | | light gn, medium to fine grained, inhomogeneous, | | | | | | | | |
| | | lapilli texture. | | | | | | | | |
| | | 38.85 - 41.15: altered to slightly altered basalt | | | | | | | corr. | BH-29 |
| | | amphibole-chlorite schist | | | | | | | 96.40 | -98.60 m |
| | A | gn. fine grained to even med. grained, inhomogeneous, | | | | | | | | |
| | | lapilli of qtz-keratophyr. increasing grain size towards hanging | | | | | | | | |
| | | 39.90: qtz-keratophyr | | | | | | | | |
| | | diss py-min of 20 Vol-% | | | | | | | | |
| | | 40.15 - 40.30: mixed basalt and qtz-kera | | | | | | | | |
| | | irregular py min, spots amounting | | | | | | | | |
| | | to 5 Vol-% | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 8 | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 40.40 - 40.50: " |  |  |  |  |  |  |  |  |
|  |  | 41.15 - 43.50: dacitic lapilli tuff in places keratophyric |  |  |  |  |  |  |  |  |
|  |  | qtz-fspar bio. chlorite schist |  |  |  |  |  |  |  |  |
|  |  | light gn, medium grained, inhomogeneous, |  |  | 30° |  |  |  |  |  |
|  |  | in places small scale zick zack |  |  |  |  |  |  |  |  |
|  |  | folding. |  |  |  |  |  |  |  |  |
|  |  | 43.50 - 45.60: slightly altered basaltic tuff |  |  |  |  |  |  |  |  |
|  | C | carb. chlorite-amphibole schist |  |  |  |  |  |  |  |  |
|  |  | gn to grgn, medium to coarse grained, inhomo- |  |  |  |  |  |  |  |  |
|  |  | geneous, porphyritic amphibole up to 20 cm |  |  |  |  |  |  |  |  |
|  |  | in size randomly orientated, ~~often~~ frequent |  |  |  |  |  |  |  |  |
|  |  | cm interlayers of qtz-keratophyr (43.70, 44.50, 45.30) |  |  |  |  |  |  |  |  |
|  |  | with finest diss. of py, low grade |  |  |  |  |  |  |  |  |
|  |  | 45.60 - 46.50: dacitic tuff |  |  |  |  |  |  |  |  |
|  |  | qtz-fspar bio-sericite-chlorite schist |  |  |  |  |  |  |  |  |
|  |  | light gn, fine grained, inhomogeneous, |  |  |  |  |  |  |  |  |
|  |  | small scale zick-zack folding |  |  |  |  |  |  |  |  |
|  |  | 46.50 - 51.80: altered to slightly altered basalt volc. to andesitic volc |  |  |  |  |  | corr. | BH - 16 |
|  | Є | carbonaceous to high carb. chlorite-amphibole schist/rock |  |  |  |  |  |  | 211.15 | 228.50 m |
|  | may be A | gn to grgn, medium and in places coarse |  |  |  |  |  |  |  |  |
|  |  | grained, sometimes fine grained, mainly |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 5

| From | To | Description BH-8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|

homogeneous, pisolithic amphibole,
often porphyritic texture, amphibole
in general unorientated, sometimes
sections with mixed qtz-keratophyr
low too py min. (diss < 5 Vol %)
(47.60, 48.10 - 48.25,

51.80 - 65.70: dacite to qtz-keratophyr — corr. BH-16 211.15 m
sericite-qtz-fspar rock
lightgr, fine grained, homogeneous,
massive, porphyric feldspar crystals
60.80 - 61.40: translucent qtz
64.75 - 65.70: "
sometimes interlayered by stringers of sericite

65.70 - 69.93 : dacite
chlorite-sericite-qtz-fspar rock
lightgr, fine grained, massive, in places
small scale zick zack folding, occasional
porphyric fspar.
66.10 : translucent qtz bomb
66.20 : "

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description 3#-8 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 69.93 | 135.40 | basalt section (hanging) VII | | | | | | | | |
| | | 69.93 - 71.80: slightly altered basalt | | | | | | | | |
| | C | carb. plag. chlorite-amphibole schist | | | | | | | | |
| | | gr. medium to coarse grained, porphyritic | | | | | | | | |
| | | texture in places, amphibole as max. 2 cm | | | | | | | | |
| | | laths randomly orientated, spotted carb. | | | | | | | | |
| | | inhomogeneous, crudely layered, some | | | | | | | | |
| | | cm inter beds of qtz-keratophyr | | | | | | | | |
| | | 71.80 - 74.40: greenschist | | | | | | | | |
| | | carbonaceous amphibole schist | | | | | | | | |
| | | gr. fine grained, homogeneous | | 60° | | | | | | |
| | | 73.90 - 74.00: alteration of basalt with | | | | | | | | |
| | | qtz-keratophyr, basalt | | | | | | | | |
| | | is slightly altered | | | | | | | | |
| | | 74.40 - 75.40: basaltic tuff (slightly altered) | | 65° | | | | | | |
| | | carb. bear. plag.-sericite-chlorite-amphibole schist | | | | | | | | |
| | | grgn. medium grained, laminated, | | | | | | | | |
| | | often mixed mat. of basalt and qtz- | | | | | | | | |
| | | keratophyr | | | | | | | | |
| | | 74.90-75.10: high qtz-keratophyr amount | | | | | | | | |
| | | disseminated py often enriched | | | | | | | | |
| | | in separate layers, total amount 1 Vol.-% | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | A to<br>even high<br>A | 75.40 – 80.00 : basalt with exhalative qtz<br>altered to slightly altered basalt<br>(chlorite-bio to amphi-chl. assembl.)<br>in cm to dm alternation with<br>exhal. qtz (qtz with finest diss of<br>py, < 1 Vol.-%). | | | | | | | | |
| | | 80.00 – 83.65 : basalt<br>greenstone<br>gn, fine grained, massive<br>80.70 – 80.85 : layer of translucent qtz<br>finest diss. of py arranged in<br>lamina, < 1 Vol.-%<br>81.76 – 82.10 : irregular po min.<br>total amount < 1 Vol.-% | | 80.00 – 80.15 fault zone | | | | | | |
| | ⊆ | 83.65 – 86.75 : basalt<br>carbonaceous plag amphibolite<br>grgn, medium crystalline, massive, poikilitic<br>amphiboles randomly oriented, spotted<br>carbonate.<br>84.80 - 84.90 : cm interlayers of qtz-keratophyre<br>85.80 – 85.95 : " | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | //// 86.75 - 88.10 : slightly altered basalt tuff | | 60° | | | | | | |
| | | chlorite - amphibolite | | | | | | | | |
| | | gn, medium to fine grained, well | | | | | | | | |
| | | layered, inhomogeneous, alternation | | | | | | | | |
| | | of chlorite rich layers with nearly | | | | | | | | |
| | | unaltered ones, some cm - interlayers | | | | | | | | |
| | | of qtz-keratophyr | | | | | | | | |
| | | //// 88.10 - 135.40 : greenschist (basalt flows with minor tuffaceous interlayers) | | | | | | | | |
| | | slightly carb. amphibole schist | | | | | | | | |
| | | gn, extremely fine grained with sections fine and | | | | | | | | |
| | high A | medium grained, irregular qtz-carbonate | | | | | | | | |
| | 102.80 | veining, medium grained mat. often with | | | | | | | | |
| ⊆<br>105.00 - 105.35 | | spotted carb., homogeneous | | | | | | | | |
| and<br>109.80 - 112.50 | | 88.45 - 88.80: translucent qtz | | | | | | | | |
| and<br>119.60 - 122.90 | | 98.25 - 98.30: qtz-keratophyr | | | | | | | | |
| and<br>126.50 - 127.10 | | network like po min | 10 Vol.-% | | | | | | | |
| | ⊆ | 102.00 - 102.80: qtz-keratophyr | | | | | | | | |
| | | carbonaceous amphibole qtz rock | | | | | | | | |
| | | gr, fine grained with piles of amphibole | | | | | | | | |
| | | randomly orientated, massive, | | | | | | | | |
| | | spotted carb. | | | | | | | | |
| | | 102.75 - 102.80: diss. py min, 50 Vol.% | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 103.00 - 103.30: qtz-keratophyr | | | | | | | | |
| | | diss. py min, 10 Vol.-% | | | | | | | | |
| | | 105.35 - 105.50: several layers of trans qtz | | | | | | | | |
| | | 105.75 - 105.90: alternation of basaltic tuff | | | | | | | | |
| | | with qtz-keratophyr | | | | | | | | |
| | | some rare spots of py | | | | | | | | |
| | | 106.10 - 106.45: qtz-keratophyr | | | | | | | | |
| | C | see 102.00 - 102.80 | | | | | | | | |
| | | 106.35 - 106.45: diss py min 30 Vol.-% | | | | | | | | |
| | | 108.15 - 108.45: qtz-keratophyr | | | | | | | | |
| | | occasionally layers of good | | | | | | | | |
| | | py min | | | | | | | | |
| | C | 117.60 - 117.80. qtz-keratophyr | | | | | | | | |
| 117.70 - 117.90 | | some rare spots of py | | | | | | | | |
| | | 119.60 - 120.50: altered basalt | | | | | | | | |
| | A/C | carbonaceous bio.-chlo.-amphibole schist | | | | | | | | |
| | sometimes high A/C | grgn. medium to slightly fine grained, | | | | | | | | |
| | | in places layered, alternation | | | | | | | | |
| | | of basalt and qtz-keratophyr | | | | | | | | |
| | | 122.60 - 122.90: altered basalt | | | | | | | | |
| | | carbonaceous plag- bio-chlo-amphibole rock | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | grgn, medium grained, massive, | | | | | | | | |
| | | spotted carb. | | | | | | | | |
| | | 124.70 - 124.85: qtz-keratophyr | | | | | | | | |
| | | some rare stringers and spots of py | | | | | | | | |
| | | 133.80 - 133.90: qtz-keratophyr | | | | | | | | |
| | | 5 cm band of high py diss., 60 Vol. % | | | | | | | | |
| | ⊆ | 134.40 - 134.65: close alternation of basalt | | | | | | | | |
| | | and qtz-keratophyr | | | | | | | | |
| 135.40 | 152.30 | section VIII | | | | | | | | |
| | | 135.40 - 138.20: dacitic tuff (lapilli) | | 80° | | | | | | |
| | A/⊆ | high carb. bio-qtz-fspar-sericite schist | | * | | | | | corr.<br>47.00 | BH-42 ξ<br>- 49.60 m |
| | | light gn to gr, fine to slightly medium grained, | | | | | | | | |
| | | lapilli texture, homogeneous, | | | | | | | | |
| | | *towards the hanging graduel changing into | | | | | | | | |
| | | high carb. qtz-fspar-sericite-biotite schist | | | | | | | | |
| | | 138.20 - 140.40: andesitic tuff | | | | | | | corr. | BH-42 ξ |
| | ⊆ | high carb. qtz-fspar sericite-chlorite-amphibole schist | | | | | | | 46.40 | - 47.00 m |
| | | yellowish gr to grgn, porphyric texture, fine | | | | | | | | |
| | | grained matrix of ser. chlo. qtz. fspar, needles | | | | | | | | |
| | | of amphibole 0.1 to 2.0 cm often not orientated, | | | | | | | | |
| | | laminated, inhomogeneous | | | | | | | | |

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## DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH - 8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | —<br>140.40 - 141.00 : porphyritic basalt | | | | | | corr. | BH - 42g | |
| | | gr., randomly orientated amphibole | | | | | | | 44.50 – | 45.60 m |
| | | lath of max. 2.5 cm size within | | | | | | | | |
| | | fine graine amphibole - sericite matrix | | | | | | | | |
| | | inhomogeneous | | | | | | | | |
| | | ////<br>141.00 - 144.73 : altered to highly altered basalt | | 65° | | | | | | |
| A | and<br>high A | slightly carb. bio - chlorite schist in | | | | | | | | |
| | | alternation with qtz-rich bio - chlorite rock | | | | | | | | |
| | | ////<br>144.73 - 148.80 : alternation of altered basalt and | | | | | | | | |
| A | and<br>high A | qtz-keratophyr or exhalative qtz | | | | | | | | |
| | | 145.20 - 145.60 : exhalative qtz with | | | | | | | | |
| | | clouded ex. mt | | | | | | | | |
| | | at hanging portion some | | | | | | | | |
| | | diss of py | | | | | | | | |
| | | 146.05 - 146.20 : finest diss of mt | | | | | | | | |
| | | 146.40 : bomb of translucent qtz | | | | | | | | |
| | | 147.70 : bombs " | | | | | | | | |
| | | —<br>148.80 - 152.30 : dacite to qtz - keratophyr tuff (lapilli) | | | | | | | | |
| | ⊆ | high carb. biotite - qtz - fspar rock | | | | | | | | |
| | | yellowish gr., medium to fine grained, | | | | | | | | |
| | | very inhomogeneous, small scale zick | | | | | | | | |
| | | zick folding, | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| 152.30 | | section XI | | | | | | | | |
| | | 152.30 - : basalt flow (slightly altered in places) | | | | | | | | |
| | | plag. biotite-amphibole schist | | | | | | | | |
| | | gn to grgn, fine a. sometimes medium | | | | | | | | |
| | | grained, homogeneous, in places | | | | | | | | |
| | | bio. pseudomorph amphibole. | | | | | | | | |
| | | 152.66 - 152.80: translucent qtz | | | | | | | | |
| | | 153.00 - 153.10: " | | | | | | | | |
| | | | | | | | | | | |
| | | a.o. BH 168.53 m | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

PAGE 1

| From | To | Description BH - 9 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | Basalt | sequence | | | | | | | | | |
| | 3.30 | basalt flow | | | | | | | | | |
| | (⊆) | carbonaceous amphibolite | | | | | | | | | |
| | | gn, medium grained, weakly oriented, homogeneous, | | | | | | | | | |
| | | spotted carbonate ellipsoidal amphiboles | | | | | | | | | |
| 3.30 | 4.50 | greenschist (flow) | | | | | | | | | |
| | | amphibolite | | | | | | | | | |
| | | gn, fine grained, well schistose, homogeneous | | | | | | | | | |
| 4.50 | 14.40 | basalt flow | | | | | | | | | |
| | | carbonate bearing to in places carbonaceous amphibolite | | | | | | | | | |
| | | see 3.30 m in places spots of py, ellipsoidal amphiboles but too pisolithic feature | | | | | | | | | |
| | ⊆ | 9.20 - 13.70 : carbonaceous amphibolite | | in places are layers of qtz with high carbonate<br>here sometimes spl spot | | | | | | | |
| | | spotted carbonate arranged to string of | | | | | | | | | |
| | | pearl like features, crosscutting | | | | | | | | | |
| | | 13.70 - 13.95: qtz - keratophyr | | | 30° | | | | | | |
| | | high py mineralization, layered mm | | | | | | | | | |
| | | bands, total amount 40 Vol.-% | | | | | | | | | |
| 14.40 | 59.70 | basalt flow (greenschist) | | | | | | | | | |
| | ⊆ | carb. bearing to carbonaceous amphibolite | | | | | | | | | |
| until | 22.70 | | | | | | | | | | |
| from 26.80 | -30.90 | gn. fine grained, well schistose, in places laminated, | | | | | | | | | |
| | | homogeneous, some irregular qtz-carbonate, interlayers | | | | | | | | | |

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# DIAMOND DRILL LOG

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| From | To | Description BH-9 | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | of translucent qtz or qtz Keratophyr, band of mainly |  |  |  |  |  |  |  |  |  |
|  |  | cm size often rimmed by carbonate |  |  |  |  |  |  |  |  |  |
|  |  | carbonate content very inhomogeneous in places |  |  |  |  |  |  |  |  |  |
|  |  | very high but mostly only low and as fine |  |  |  |  |  |  |  |  |  |
|  |  | dots |  |  |  |  |  |  |  |  |  |
|  |  | 14.75 - 15.30: translucent qtz |  |  |  |  |  |  |  |  |  |
|  |  | some spots of py although < 1 Vol-% |  |  |  |  |  |  |  |  |  |
|  |  | hanging wall terminated by lamina |  |  |  |  |  |  |  |  |  |
|  |  | of po |  |  |  |  |  |  |  |  |  |
|  |  | 16.30 - 16.34: qtz-Keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | 17.35 - 17.50: qtz-Keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | high carbonaceous, giant spots of po |  |  |  |  |  |  |  |  |  |
|  |  | <<1 Vol-%, limited alteration at footwall |  |  |  |  |  |  |  |  |  |
|  |  | basalt |  |  |  |  |  |  |  |  |  |
|  |  | 16.80 - 17.20: bands of translucent qtz |  |  |  |  |  |  |  |  |  |
|  |  | mineralization of py and po very |  |  |  |  |  |  |  |  |  |
|  |  | irregular as stringers and spots |  |  |  |  |  |  |  |  |  |
|  |  | 24.00 - 25.80: finest spots of mt although, <1 Vol-% |  |  | 45° |  |  |  |  |  |  |
|  | A | 35.20 - 43.20: in places altered basalt |  |  |  |  |  |  |  |  |  |
|  | in places | chlorite or chlorite biotite assemblage |  |  |  |  |  |  |  |  |  |
|  |  | occurring as cm to even dm interlayers |  |  |  |  |  |  |  |  |  |
|  |  | in otherwise fresh basalt |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

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**FOLLDAL VERK A/S**

| From | To | Description DH - 9 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | wt dotted section althrough, | | | | | | | | | |
| | | < 1Vol-% | | | | | | | | | |
| | | altered zones: 35.45 - 35.30, 37.10 - 37.20, 37.37 - 37.60, 38.10 - 38.20, | | | | | | | | | |
| | | 38.90 - 39.55, 40.00 - 40.40, 42.05 - 42.50, | | | | | | | | | |
| | | | | | 47.65 - 48.20 sheared basalt fault | | | | | | |
| | | | | | mylonit-zone 50.70 - 59.70 | | | | | | |
| 59.70 | 71.35 | basaltic tuff (slightly altered) | | | | | | | | | |
| | | carbonaceous to high carbonaceous plag. chlorite amphibolite | | | 45° | | | | | | |
| | A/C | gn, medium grained, well layered only in places | | | | | | | | | |
| | | more massive, prolithic amphibole mainly well | | | | | | | | | |
| | | orientated, rare spots of py, homogeneous | | | | | | | | | |
| 71.35 | 83.75 | basalt flow | | | | | | | | | |
| | | slightly carbonaceous amphibolite | | | | | | | | | |
| | | gn, mainly medium grained in places transgrading | | | | | | | | | |
| | | to slightly fine grained, in places ellipsoidal amphibole, | | | | | | | | | |
| | | but mostly prolithic, some spots of carb mainly | | | | | | | | | |
| | | occurring within hanging part | | | | | | | | | |
| | | 78.20: qtz translucent bomb | | | | | | | | | |
| | | 78.50 - 78.60: qtz-Keratophyr | | | | | | | | | |
| | | with stringer and net-work like po and | | | | | | | | | |
| | | py mineralization | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description 3H - 9 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 83.75 | 88.45 | Py-ore zone | | | strongly sheared zone | | | | | | |
| | | 83.75 - 84.15 qtz-keratophyr with veinlets and spotty | | | 79.60 - | 83.35 | | fault | | | |
| | | py, po mineralization 80 Vol-% | | | | | | | | | |
| | | 84.15 - 86.90: basalt flow (slightly altered) | | | | | | | | | |
| | | slightly carbonaceous chlorite bear plag. amphibolite | | | | | | | | | |
| | | gr, medium grained, massive, | | | | | | | | | |
| | | poikilitic amphi, some spots of carb. | | | | | | | | | |
| | | 86.90 - 87.00: qtz-keratophyr | | | | | | | | | |
| | | very irregular py and some po mineralization, | | | | | | | | | |
| | | stringers, giant spots, laminas | | | | | | | | | |
| | | often folded, in places good ore | | | | | | | | | |
| | | 60 Vol-%, than bad ore with 10 Vol-% | | | | | | | | | |
| | | 87.00 - 87.65: py ore | | | | | | | | | |
| | | 87.65 - 87.80: qtz-keratophyr | | | | | | | | | |
| | | finest dots of py and some po 2 Vol-% | | | | | | | | | |
| | | 87.80 - 88.35: py ore | | | | | | | | | |
| | | 88.35 - 88.45: qtz-keratophyr | | | | | | | | | |
| | | some irregular features of py 2 Vol-% | | | | | | | | | |
| 88.45 | 113.60 | basalt flow | | | | | | | | | |
| | ⊆ | 88.45 - 89.90: high carbonaceous plag amphibolite | | | 60° | | | | | | |
| | | gr. medium grained, massive, poikilitic amphiboles | | | | | | | | | |

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# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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| From | To | Description BH-9 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | crudely orientation spoted carbonate partly idiomorphic | | | | | | | | | |
| | high A/C | 89.90 - 92.65 : highly altered basalt<br>carbonaceous amphibole bear. chlorite schist<br>gn. fine grained with porphyric amphiboles, randomly orientated, ellipsoidal to lathe of 0.2 to 2.0cm in size, spotted carb., homogeneous, slowly decrease in alteration towards lying<br>89.95 - 90.00: qtz-keratophyr interlayered by altered basalt with some spotted py | | | | | | | | correlate with BH 29 range 151.00 - 156.10 m here too slowly decrease in alteration towards lying | |
| | A/C | 92.65 - 99.60 : altered and slightly altered basalt<br>carbonaceous chlorite to chlorite bearing plag amphibolite<br>gn. medium grained, massive, poikilitic amphibole surrounded by chlorite and plag., spotted carbonate<br>97.00-97.35: band of qtz-keratophyr interlayered by basalt and spotted py sometimes in layers irregular folded, 20 Vol % | | | | | | | | | |

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# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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| From | To | Description BH-9 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 99.44 - 99.60: alteration of qtz - Keratophyr bands | | | | | | | | | |
| | | with basalt | | | | | | | | | |
| | | some py mineralization (10 Vol-%) | | | | | | | | | |
| | | restricted to the qtz-Keratophyr | | | | | | | | | |
| | | 99.60 - 113.60: slightly carbonaceous amphibolite | | 102.70 - 103.90 fault zone ↯ | | | | | | | |
| | | gr, medium grained in places fine | | brecciation, foliation | | | | | | | |
| | | grained, ellipsoidal amphibole, massive, | | | | | | | | | |
| | | carbonate mainly as irregular bands | | | | | | | | | |
| | | and veins rarely spotted. | | | | | | | | | |
| | | 105.90 - 106.00: qtz-Keratophyr | | | | | | | | | |
| | | spotted py mineralization, some po, | | | | | | | | | |
| | | 2 Vol-% | | | | | | | | | |
| | | 108.80 - 108.90: qtz-Keratophyr | | | | | | | | | |
| | | 109.20 - 109.60: " | | | | | | | | | |
| | | 110.80 - 111.10: " | | | | | | | | | |
| | | with small bands of and | | | | | | | | | |
| | | finest disseminated po and py | | | | | | | | | |
| | | mineralization <Vol % | | | | | | | | | |
| 113.60 | 116.60 | qtz-Keratophyr | | | | | | | | | |
| | | translucent qtz, spotted and stringery and finest | | | | | | | | | |
| | | diss of py and po < 1 Vol-% | | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

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| From | To | Description BH-9 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | sometimes spotted py ore (80 to 60 Vol. %) 115.25, 115.45, | | | | | | | | | |
| | | 116.28 - 116.60 | | | | | | | | | |
| | | sometimes amphibole rich interlayers with coarse | | | | | | | | | |
| | | randomly orientated amphibole | | | | | | | | | |
| 116.60 | 128.24 | basalt flow | | | 45° | | | | | | |
| | | slightly carbonaceous to carbonaceous greenschist (amphibolite) | | | | | | | | | |
| | | gn, massive, extremely fine grained, widely | | | | | | | | | |
| | | layered, in places slightly alteration | | | | | | | | | |
| | C | 117.00 - 117.02 : spotted py, 5 Vol-% | | | | | | | | | |
| from 120.60<br>to<br>126.10 | | 117.40 - 117.45 : " | | | | | | | | | |
| | | 120.60 - 120.70 : " (5 to even 10 Vol-%) | | | | | | | | | |
| | | 120.95 - 120.97 : " | | | | | | | | | |
| | | 122.00 - 122.07 : " | | | | | | | | | |
| | | 122.22 - 122.30 : " (5 to even 10 Vol-%) | | | | | | | | | |
| | A/C | 123.70 - 126.10 : carbonaceous chlorite amphibolite | | | | | | | | | |
| | | gn, medium to in places coarse grained, | | | | | | | | | |
| | | massive, poikilitic amphibole, spotted | | | | | | | | | |
| | | carbonate, inhomogeneous occasionally | | | | | | | | | |
| | | 128.15 - 128.24 : some disseminations of py within | | | | | | | | | |
| | | qtz-keratophyric mat, alternation or | | | | | | | | | |
| | | mixed with basalt. Min 5 Vol-% | | | | | | | | | |
| | | a.o. DH 128.24 m | | | | | | | | | |

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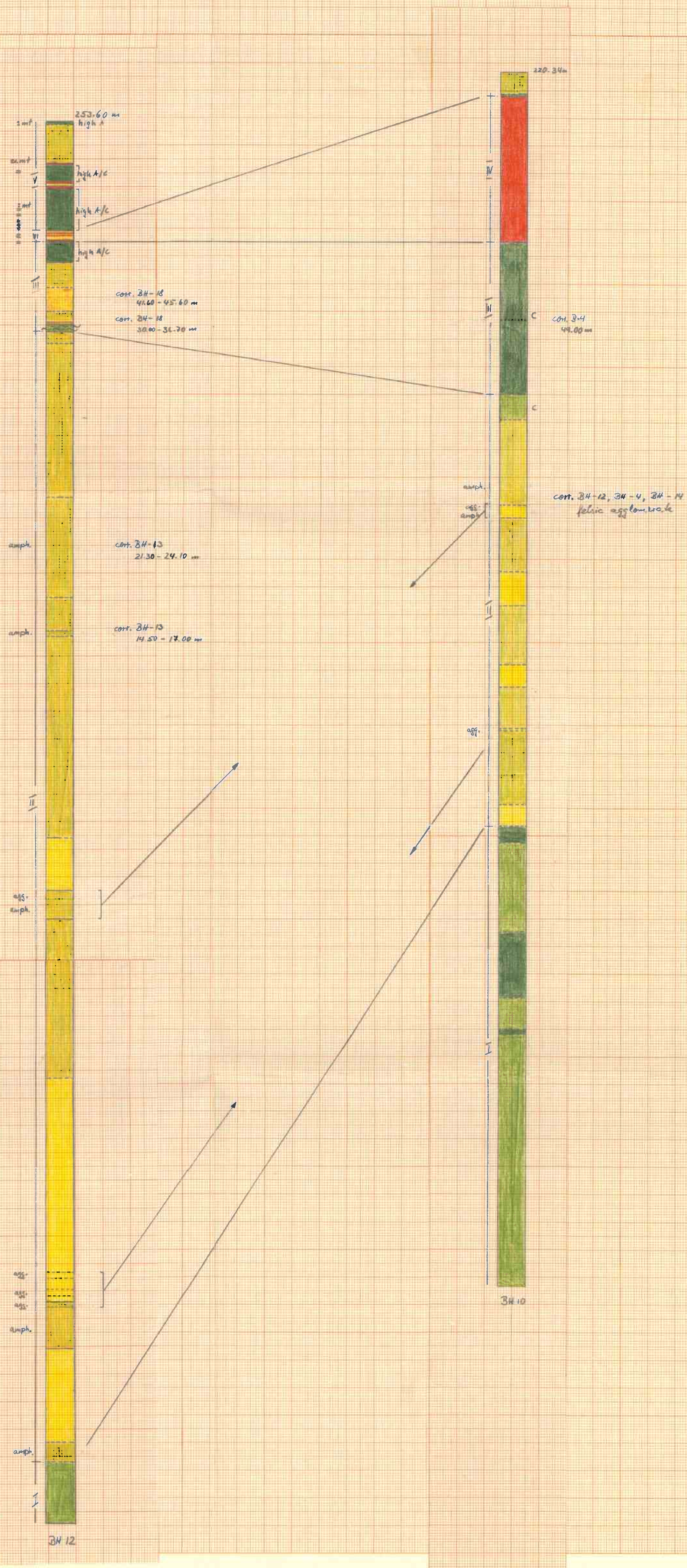
# Malmzone I



253.60 m
high A
1 mt
2 mt
V
high A/c
high A/c
VI
high A/c
III
corr. BH-18
41.60 - 45.60 m
corr. BH-18
30.00 - 31.70 m
amph.
corr. BH-13
21.30 - 24.10 m
amph.
corr. BH-13
14.50 - 17.00 m
II
agg.
amph.
agg.
agg.
agg.
amph.
amph.
I
BH 12
220.34 m
IV
III
C
corr. B-4
49.00 m
C
amph.
agg.
amph.
corr. BH-12, BH-4, BH-14
felsic agglomerate
II
agg.
I
BH 10

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

| From | To | DDH 10 Description | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 0.00 | 52.60 | carbonate rich plagioclas, quartz - amphibole schist |  |  |  |  |  |  |  |  |  |
|  |  | (~~[illegible]~~ andesitic) (tuff) |  |  |  |  |  |  |  |  |  |
|  |  | in places interlayered by fine grained green schist, ~~[illegible]~~ |  |  |  | sample 10/1 about 3m |  |  |  |  |  |
|  |  | occurrence of biotite accumulations (bands). |  |  |  | sample 10/2 about 7.50 m |  |  |  |  |  |
|  |  | overall spotted carbonate (ankerite staining) |  |  |  | sample 10/3 about 25.70 m |  |  |  |  |  |
|  |  | mostly banded in a cm scale, banding 60° cax. |  |  |  | sample 10/4 about 34.50 m |  |  |  |  |  |
|  |  | from 20.00 some smaller (mm) bands of |  |  |  |  |  |  |  |  |  |
|  |  | chlorite + biotite interlayered (not always) |  |  |  |  |  |  |  |  |  |
|  |  | from about 30.00 m sericite bearing occasionally |  |  |  |  |  |  |  |  |  |
|  |  | 46.40 - 47.10 : greenschist (biotite bearing) |  |  |  | sample 10/5 about 46.50 m |  |  |  |  |  |
|  |  | supposely basaltic tuff (may be flow) |  |  |  | sample 10/6 about 48.90 m |  |  |  |  |  |
|  |  | gn, ~~massive~~ fine grained, ~~well~~ laminated, |  |  |  |  |  |  |  |  |  |
|  |  | mm lenses spots of carbonate, sometimes |  |  |  |  |  |  |  |  |  |
|  |  | crosscutting features, |  |  |  |  |  |  |  |  |  |
|  |  | before and after greenschist slightly further increasing |  | → chlorite, sericite, biotite schist |  |  |  |  |  |  |  |
|  |  | sericite and chlorite, texture becomes more sutured. |  | (with carbonate, plag, qtz and amph.) |  |  |  |  |  |  |  |
|  |  |  |  | more intermediate than felsic |  |  |  |  |  |  |  |
|  |  |  |  | andesitic to dacitic |  |  |  |  |  |  |  |
| 52.60 | 64.47 | carbonaceous greenschist (~~with~~ garnet bearing, chlorite, biotite, ~~ed~~ amphibolite schist). basalt flow |  |  |  |  |  |  |  |  |  |
|  |  | some dm bands of dacitic tuff interbedded |  |  |  |  |  |  |  |  |  |
|  |  | cm bands of carbonate mostly concordant |  |  |  | sample 10/7 about 60.80 |  |  |  |  |  |
|  |  | gn, ~~massive~~ ~~[illegible]~~ schistose, 65° cax |  |  |  | interlayers of andesitic tuff: 56.40 - 56.60 |  |  |  |  |  |
|  |  | gradual ~~ongoing~~ passing into quartz keratophyr (hanging) |  |  |  | 61.30 - 62.20 m, |  |  |  |  |  |
|  |  | sharp footwall |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

PAGE 2

| From | To | Description | DDH No. | Interval From | Interval To | Assays Cu | Assays Mo | Assays Pb | Assays Zn | Assays Au | Assays Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64.47 | 80.30 | carbonaceous sericite - plagioclase - qtz - amphibole - | | | | sample | | 10/8 | 62.90 m | | |
| | | biotite schist (intermediate tuff) | | | | | | | | | |
| | | in places interlayered by medium crystalline | | | | | | | | | |
| | | dacitic tuffs, ~~[illegible]~~ | | | | | | | | | |
| | | ~~[illegible]~~ with amphibole needles randomly | | | | | | | | | |
| | | orientated in a matrix of bio, ser, chl. | | | | sample | | 10/9 | 69.15 m | | |
| | | sgr, fine to medium crystalline, well bedded - | | | | | | | | | |
| | | laminated (70° cax), cm bands of carbonate, | | | | | | | | | |
| | | to the upper part increasing ~~of~~ in grainsize, here | | | | | | | | | |
| | | mostly medium crystalline. ~~[illegible]~~ | | | | | | | | | |
| | | ~~[illegible]~~ | | | | | | | | | |
| | | At the hanging wall to greenschist biotite and | | | | | | | | | |
| | | chlorite increasing (carbonaceous sericite-chlorite- | | | | sample | | 10/10 | 78.00 m | | |
| | | biotite schist) this rock gradual passing in | | | | | | | | | |
| | | following greenschist | | | | | | | | | |
| 80.30 | 83.40 | carbonaceous greenschist | | | | | | | | | |
| | | see 52.60 - 64.47 crosscutting carbonate | | | | | | | | | |
| | | cornsize increases ~~[illegible]~~ to the border section to | | | | sample | | 10/11 | 81.50 m | | |
| felic | vol. | onlying quartzkeratophyr. | | | | | | | | | |
| 83.40 | 87.54 | quartzkeratophyr (sericite, biotite) | | | | | | | | | |
| | | wh, ~~[illegible]~~ ~~[illegible]~~ fine to medium crystalline, some spots of py | | | | | | | | | |
| | | bedded by mm bands of sericite, bio accumulations | | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 90° cax, increasing mafic content to the |  |  |  | sample | 10/12 |  | 86.40 m |  |  |
|  |  | hanging ~~po~~portions, ~~[illegible]~~ ~~[illegible]~~ ~~garnet~~ |  |  |  |  |  |  |  |  |  |
|  |  | ~~[illegible] bearing [illegible]~~, |  |  |  |  |  |  |  |  |  |
| 87.54 | 112.80 | dacitic ~~[illegible]~~ slightly andesitic tuff |  |  |  |  |  |  |  |  |  |
|  |  | (~~sericite-talc~~ chlorite-sericite-biotite assemblage |  |  |  | 108.81 – 112.80 qtz-keratophyr tuff |  |  |  |  |  |
|  |  | light gr, fine to medium crystalline, well bedded, |  |  |  |  |  |  | whitegr. extr. fine grained biotite-sericite-qtz, slightly [illegible] |  |  |
|  |  | mm to cm bands of carbonate, some time |  |  |  | sample | 10/13 |  | 94.45 m |  |  |
|  |  | bigger accumulations, 60° cax, from about 88.40 m |  |  |  | sample | 10/14 |  | 105.70 m |  |  |
|  |  | occasionally garnet bearing, sometimes keratophyric |  |  |  |  |  |  |  |  |  |
|  |  | 100.90 - 101.15: agglomerate felsic! |  |  |  |  |  |  |  |  |  |
| int. vol. |  | ~~115.20 - 115.80: lapilli tuff intermediär~~ |  |  |  |  |  |  |  |  |  |
| 112.80 | 123.31 | andesitic volcanic (may dacitic?) (flow may be tuff) |  |  |  |  |  |  |  |  |  |
|  |  | (sericite?-chlorite?-biotite? carbonaceous) |  |  |  |  |  |  |  |  |  |
|  |  | gr massive to crudely schistose, slightly bedded, cm |  |  |  | sample | 10/15 |  | 111.95 m |  |  |
|  |  | nodules, stringers, bands of carbonate, sometime of qtz |  |  |  |  |  |  |  |  |  |
|  |  | garnet bearing increasing amount to hanging wall |  |  |  |  |  |  |  |  |  |
| felsic vol. |  | 115.20 - 115.80: intermediate lapilli tuff |  |  |  |  |  |  |  |  |  |
| 123.31 | 129.60 | ~~[illegible]~~ qtz keratophyr tuff (may be even flow), gradual footwall (garnet bearing sericite-biotite-qtz-plag schist) |  |  |  |  |  |  |  |  |  |
|  |  | gr, medium to fine crystalline, ~~laminated~~ crudely bedded, |  |  |  |  |  |  |  |  |  |
|  |  | randomly orientated actinolites (?) (sa!), spotted (mm) carbonate, |  |  |  | sample | 10/16 |  | 124.30 m |  |  |
|  |  | in places cm lenses of carbonate and/or qtz, |  |  |  |  |  |  |  |  |  |
|  |  | gradual hanging wall |  |  |  |  |  |  |  |  |  |

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
| int. vol |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 129.60 | 139.40 | ~~qtz~~ garnet-biotite-sericite schist (andesitic to dacitic flow / may be also tuff) |  |  |  |  |  |  |  |  |  |
|  |  | light gr, fine to medium crystalline, spotted texture, often homogeneous, rarely interbedded |  |  |  |  |  |  |  |  |  |
|  |  | cm to mm bands of of qtz and/or carbonate con- big ~~[illegible]~~ qtz-carbonate materia (bombs), |  |  |  |  |  |  |  |  |  |
|  |  | cordant interbedded, 65° cat, garnet mostly |  |  |  |  |  |  |  |  |  |
|  |  | of mm size, in places idiomorphic and up to 0.5 cm, |  |  |  | sample |  | 10/17 | 133.00 m |  |  |
|  |  | slightly graphitic (134.50 m) |  |  |  |  |  |  |  |  |  |
| 139.40 | 141.50 | tuff banded chert (may be dacitic breccia agglomerate)<br>(mm to cm) |  |  |  |  |  |  |  |  |  |
|  |  | garnet-biotite-sericite band, stringer ~~within~~ |  |  |  |  |  |  |  |  |  |
|  |  | alternating with massive qtz in places accompanied |  |  |  |  |  |  |  |  |  |
|  |  | by bands and spots of carbonate. wy |  |  |  |  |  |  |  |  |  |
|  |  | occasionally dm interbeds of garnet bearing |  |  |  |  |  |  |  |  |  |
|  |  | biotite- ~~[illegible]~~ sericite schist, always sharp boundarys |  |  |  |  |  |  |  |  |  |
|  |  | 140.40 incomming laths of amphibole ~~at~~ randomly |  |  |  |  |  |  |  |  |  |
|  |  | orientated, idiomorphic up to 0.5 cm length |  |  |  |  |  |  |  |  |  |
| intwal. |  | to hanging wall slowly decreasing chert content, gradual passing in |  |  |  |  |  |  |  |  |  |
| 141.50 | 143.03 | carbonaceous sericite-actinolite schist (intermediate tuff) |  |  |  |  |  |  |  |  |  |
|  |  | light gr/gr, porphyritic texture, crudely bedding, |  |  |  |  |  |  |  |  |  |
|  |  | occasionally cm bands of qtz-carbonate with |  |  |  |  |  |  |  |  |  |
|  |  | additional sericite + actinolite interbeddet |  |  |  |  |  |  |  |  |  |
|  |  | to hanging portion decreasing corn size to |  |  |  | sample |  | 10/18 | 142.40 m |  |  |
|  |  | fine crystalline, slowly incomming garnets |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 143.03 | 159.50 | garnet bearing carbonaceous sericite-biotite schist (andesitic flow may be even tuff) | | | | | | | | | |
| | | light gn, fine crystalline, ~~[illegible]~~ clusters of biotite | | | * | dacite ? | | | | | |
| | | in a mostly homogeneous fabric of sericite, | | | | | | | | | |
| | | mm to cm nodules, stringers, lenses of | | | | | | | | | |
| | | qtz and/or carbonate, 80° cat * | | | | | | | | | |
| | | 144.80 – 148.40: actinolite bearing garnet-(biotite)-sericite schist | | | | sample | | 10/19 | | 152.60 m | |
| | | gn, porphyritic texture, laths of cm | | | | | | | | | |
| | | actinolite randomly orientated, idiom | | | | | | | | | |
| | | garnets (0.5 cm Ø), occasionally | | | | | | | | | |
| | | lapilli tuff, sometimes chert | | | | | | | | | |
| | | bands | | | | | | | | | |
| | 157.00 – 161.00 | * at the hanging wall slowly incomming actinolite (andesitic tuff) | | | | | | | | | |
| | | as mm prismatic crystals randomly orientated | | | | sample | 10/20 | | 159.45 m | | |
| | | medium crystalline, decrease in sericite and | | | | | | | | | |
| basaltic volcan | | biotite content, spotty carbonate, no garnets | | | | | | | | | |
| 161.50 | 164.00 | high carbonaceous biotite bearing sericite-actinolite schist (basaltic ~~tuff~~ ~~or~~ flow may be even tuff) | | | | | | | | | |
| | | gn, medium grained to in places fine grained, spotted carbonate, in | | | | | | | | | |
| | | places irregular carbonate veining | | | | | | | | | |
| | | 162.30 fault stringy no mineralization | | | | | | | | | |
| 164.00 | 165.50 | ~~[illegible]~~ silicified sericite actinolite | | | | | | | | | |
| | | gn, fine grained to medium, massive with irregular | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description | DDH No. | Interval |  | Assays |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |  |
|  |  | qtz bands |  |  |  |  |  |  |  |  |  |  |
|  |  | Min: finest diss of py |  |  |  | sample |  | 10/21 |  | 164.50m |  |  |
|  |  | 164.55 and 164.70 : dm bands of dacitic to andesitic |  |  |  |  |  |  |  |  |  |  |
|  |  | mat. stringers and disseminations |  |  |  |  |  |  |  |  |  |  |
|  |  | of po, 2 vol-% |  |  |  |  |  |  |  |  |  |  |
| 165.50 | 168.00 | carbonaceous ~~[illegible]~~ plagioclase -actinolite (basalt) |  |  |  |  |  |  |  |  |  |  |
|  |  | gn, medium crystalline, laths of actinolite |  |  |  |  |  |  |  |  |  |  |
|  |  | randomly orientated, spotted carbonate, sometimes bands of [illegible] with spots of po py (166.00) |  |  |  |  |  |  |  |  |  |  |
|  |  | Min: clusters of py, stringers of po also frequently |  |  |  |  |  |  |  |  |  |  |
|  |  | embedded. 167,29 po band |  |  |  |  |  |  |  |  |  |  |
| 168.00 | 173,30 | carbonate bearing actinolite (basalt flow) |  |  |  |  |  |  |  |  |  |  |
|  |  | gn, medium crystalline some variations to finer |  |  |  | sample |  | 10/22 | 172.30m |  |  |  |
|  |  | grained mat, mostly idio actinolite, massive |  |  |  |  |  |  |  |  |  |  |
| 173.30 | 175.30 | amphibolite schist (basalt flow) |  |  |  |  |  |  |  |  |  |  |
|  |  | gn, fine grained, ~~[illegible]~~ partly distorted, |  |  |  |  |  |  |  |  |  |  |
|  |  | irregular lenses, stringers of carbonate |  |  |  |  |  |  |  |  |  |  |
|  |  | ~~Min.~~ |  |  |  |  |  |  |  |  |  |  |
| 175.30 | 176.90 | carbonaceous to high carb. biotite-chlorite-~~[illegible]~~-actinolite schist (andesitic to basaltic tuff) |  |  |  |  |  |  |  |  |  |  |
|  |  | gn, medium crystalline, spotted carbonate, some |  |  |  | sample |  | 10/23 |  | 176.65 m |  |  |
|  |  | irregular carbonate veining, some rare spots of py |  |  |  |  |  |  |  |  |  |  |
|  |  | 175.30 - 175.40, 176.40 : disseminated po, cp mineralisation, bound to dm felsic tuff layers. |  |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 7

| From | To | Description | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 176.90 | 189.38 | carbonaceous biotite - actinolite schist (basalt flow) (silicified ?) | | | | | | | | | |
| | | gn, massive to well schistose, fine crystalline, | | | | | | | | | |
| | | homogeneous, interbedded stringers and | | | | sample | 10/24 | | | 182,30 m | |
| | | bands of carbonate or chert, 65°cax sometimes | | | | sample | 10/25 | | | 187.35 m | |
| ore horizon | | sleeper | | | | | | | | | |
| 189.38 | 215.84 | massive pyrite ore | | | | | | | | | |
| | | sharp lying borders and hanging border | | | | sample | 10/26 | | | 201.50 m | |
| 215.84 | 216.20 | carbonaceous biotite - actinolite schist (basalt flow may by tuff) | | | | | | | | | |
| | | gn, fine grained, homogeneous, irregular qtz | | | | | | | | | |
| | | carbonate veins, stringers. | | | | | | | | | |
| 216.20<br>217.00 | 217.00<br>220.34 | qtz keratophyr<br>carbonaceous sericite biotite - chlorite schist (intermediate to felsic, dacitic vol) | | | | | | | | | |
| | | gn, fine grained, homogeneous, interbedded | | | | sample | 10/27 | | | 217.65 m | |
| | | by cm to dm sections of quartzkeratophyr with | | | | sample | 10/28 | | | 219.80 m | |
| | | in places stringer cp and py mineralization | | | | | | | | | |
| | 220.34 | a.o. BH | | | | | | | | | |

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Additional sample

# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

PAGE

| From | To | Description BH 10 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | sample 10/29 100.00 m | | | | | | | | | |
| | | sample 10/30 136.83 m | | | | | | | | | |
| | | sample 10/31 140.90 m | | | | | | | | | |
| | | sample 10/32 147.30 m | | | | | | | | | |
| | | sample 10/33 157.30 m | | | | | | | | | |

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Tverrfjellet

# ● DIAMOND DRILL LOG ●

**FOLLDAL VERK A/S**

PAGE 1

| From | To | Description BH - 12 | DDH No. | Interval |  | Assays |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |  |
|  | 11.00 | basaltic to andesitic tuff |  |  |  |  |  |  |  |  |  |  |
|  |  | carbonaceous sericite - biotite - amphibole schist |  |  |  |  |  |  |  |  |  |  |
|  |  | alternation of fine grained massive basaltic |  |  |  |  |  |  |  |  |  |  |
|  |  | layers (porphyric amphibole) and laminated |  |  |  |  |  |  |  |  |  |  |
| I |  | section of biotite - qtz - carbonate |  |  |  |  |  |  |  |  |  |  |
| II 11.00 | 14.45 | amphibole bearing garnet - biotite - chlorite schist |  |  |  |  |  |  |  |  |  |  |
|  |  | dacitic tuff (in places lapilli) |  |  |  |  |  |  |  |  |  |  |
|  |  | spotted biotite |  |  | 45° |  |  |  |  |  |  |  |
| 14.45 | 31.60 | keratophyr (flow) |  |  | 45° |  |  |  |  |  |  |  |
|  |  | qtz-rich carb. garnet - amphibole bearing sericite - biotite schist |  |  |  |  |  |  |  |  |  |  |
|  |  | 14.68 - 14.80: agglomerate |  |  |  |  |  |  |  |  |  |  |
|  |  | first part felsic getting more mafic-rich (amphibole |  |  |  |  |  |  |  |  |  |  |
|  |  | and biotite increase) may be dacitic |  |  |  |  |  |  |  |  |  |  |
| 31.60 | 40.08 | dacitic flow to tuff |  |  | 45° |  |  |  |  |  |  |  |
|  |  | qtz - amphibole - sericite - biotite - chlorite schist |  |  |  |  |  |  |  |  |  |  |
|  |  | porphyric amphibole randomly orientated |  |  |  |  |  |  |  |  |  |  |
|  |  | 0.2 - 2.0 cm in size |  |  |  |  |  |  |  |  |  |  |
|  |  | 38.70 m bands of keratophyr |  |  |  |  |  |  |  |  |  |  |
|  |  | 39.08 m " |  |  |  |  |  |  |  |  |  |  |
|  |  | 39.18 - 40.08 : agglomerate |  |  |  |  | correlation to BH 10 |  |  |  | 101.52 m |  |
| 40.08 | 80.50 | keratophyr (flow) |  |  |  |  |  |  |  |  |  |  |

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Tverfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 12 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| | | amphibole ~~bearing~~ qtz-rich garnet-sericite-biotite rock/schist | | | | | | | | | | |
| | | ~~amphibole mostly concentrated at footwall~~ | | changes to mafic rider variations amphibole but | | | | | | | | |
| | | 40.90 – 41.70 : agglomerate | | more biotite increasing → dacitic | | | | | | | | |
| | | 44.33 – 45.20 : " | | | | | | | | | | |
| 80.50 | 109.30 | dacitic tuff or flow | | | 60° | | | | | | | |
| | | garnet - biotite - chlorite schist | | | | | | | | | | |
| | | typical spotted biotite, garnet mainly | | | | | | | | | | |
| | | between 0.1 and 0.2 cm but can grade up | | | | | | | | | | |
| | | to 0.5 cm. | | | | | | | | | | |
| | | 86.60 – 86.90 : several bombs of qtz [illegible] | | | | | | | | | | |
| | | 95.35 – 95.60 : " of translucent qtz | | | | | | | | | | |
| | | from about 100.00 m loss of the more massive habit | | | | | | | | | | |
| | | here clear tuffaceous | | | | | | | | | | |
| | | 106.25 : bomb of translucent qtz | | | | | | | | | | |
| 109.30 | 114.45 | dacitic tuffs to flows interlayered by agglomeratic<br>~~109.30 – 110.20 : agglomerate (amphibole)~~ | | | | correlation with BH 10/31 | | | | | | |
| | | and lapilli sections | | | | | | | | | | |
| | | garnet - amphibole - biotite - chlorite schist | | | | | | | | | | |
| | | 109.30 - 110.20 : agglomerate (amphibole) | | | | | | | | | | |
| | | 110.45 – 111.00 : " | | | | | | | | | | |
| | | 112.20 – 114.45 : lapilli tuff to agglomerate (amphibole) | | | | | | | | | | |
| | | some bombs of translucent qtz a. Ser. | | | | | | | | | | |

Trafjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 12 | DDH No. | Interval |  | Assays |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |  |
| 114.45 | 124.00 | qtz-keratophyr flow to tuff |  |  |  |  |  |  |  |  |  |  |
|  |  | qtz-rich garnet-sericite-biotite rock/schist |  |  |  |  |  |  |  |  |  |  |
|  |  | albite eye texture in places |  |  |  |  |  |  |  |  |  |  |
|  |  | 117.40 - 117.75: agglomerate |  |  |  |  |  |  |  |  |  |  |
|  |  | 122.10 - 123.35: dacitic tuff |  |  |  |  |  |  |  |  |  |  |
|  |  | see above |  |  |  |  |  |  |  |  |  |  |
| m<br>124.00 | 213.40 | dacitic tuff to even flow |  |  |  |  |  |  |  |  |  |  |
|  |  | qtz-garnet-biotite-chlorite schist |  |  |  |  |  |  |  |  |  |  |
|  |  | spotted bio see above of foot section more massiv upwards tuffaceous (lapilli) |  |  |  |  |  |  |  |  |  |  |
|  |  | 135.85: bomb of translucent qtz |  |  |  |  |  |  |  |  |  |  |
|  |  | 137.25 - 137.55: several bombs of translucent qtz |  |  |  |  |  |  |  |  |  |  |
|  |  | 137.85: bomb of translucent qtz |  |  |  |  |  |  |  |  |  |  |
|  |  | 138.20: " |  |  |  |  |  |  |  |  |  |  |
|  |  | 160.50 - 161.40: garnet-biotite-amphibole-chlorite schist |  |  |  |  |  |  |  |  | see | 13/2 |  |
|  |  | garnets 0.3 - 1.0 cm size |  |  |  |  |  |  |  |  | zit correlation | doubtfull |  |
|  |  | amphibole lath rand orientated, 0.3 to 1.5 cm size |  |  |  |  |  |  |  |  |  |  |
|  |  | 165.20 - 165.65: agglomerate to coarse lapilli |  |  |  |  |  |  |  |  |  |  |
|  |  | 167.20 - 185.40 : see 160.50 - 161.40 m |  |  |  |  |  |  |  |  | see | 13/2 |  |
|  |  | strong varying amphibole content, size |  |  |  |  |  |  |  |  | zit correlation | doubtfull |  |
|  |  | varies from 0.1 to 2.5 cm in places |  |  |  |  |  |  |  |  |  |  |  |
|  |  | sphärolites and big clusters |  |  |  |  |  |  |  |  |  |  |  |

Hamar-Trykk A/S

Tverfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-12 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | C | 184.40 - 184.80: high carb. biotite-chlorite schist |  |  |  |  | 45° |  |  |  |  |
|  |  | without carb in places spotty carb. |  |  |  |  |  |  |  |  |  |
| more massive looking may be flow |  | 212.75 - 213.30 : no spotted biotite |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 213.40 | 215.50 | dacitic flow |  |  |  |  |  |  |  |  |  |
|  |  | qtz-rich sericite-biotite-chlorite rock |  |  |  |  |  |  |  |  |  |
|  |  | light gr, fine grained extremely, massive, in places |  |  |  |  |  |  |  |  |  |
|  |  | widely banded or with "flaser texture". |  |  |  |  |  |  |  |  |  |
| II |  | in place po mineralization |  |  |  |  |  |  |  |  |  |
| III<br>215.50 | 217.00 | andesite to basalt |  |  |  |  |  |  |  |  |  |
|  |  | carbonaceous biotite bearing chlorite schist |  |  |  |  |  |  |  |  |  |
|  |  | gr, finest grained, massive, irregular qtz-carb. |  |  |  |  |  |  |  |  |  |
|  |  | veining, tectonized ? |  |  |  |  |  |  |  |  |  |
| 217.00 | 217.60 | quartzite (?) |  |  |  |  |  |  | see 18/4 or 18/6 correlation |  |  |
|  |  | light gr, massive, fine grained |  |  |  |  |  |  |  |  |  |
| 217.60 | 219.30 | dacitic flow |  |  |  |  |  |  |  |  |  |
|  |  | see 213.40 - 215.50 no po |  |  |  |  |  |  |  |  |  |
| 219.30 | 223.40 | quartzite (?) |  |  |  |  |  |  |  |  |  |
|  |  | (biotite - sericite - chlorite) |  |  |  |  |  |  | see 18/4 or 18/6 correlation |  |  |
|  |  | gr, extremely fine grained, some rare finest diss of po |  |  |  |  |  |  |  |  |  |

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Iver fjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 12 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| m<br>223.40 | 228.60 | dacitic flow or keratophyr (very like quartzite but more chlorite) | | | | | | | | | |
| | | qtz-rich sericite - chlorite rock | | | | | | | | | |
| | | gr to lightgrgr, extremely fine grained, in places | | | | | | | | | |
| | | amphibole bearing, massive, in places irregular | | | | | | | | | |
| | | qtz veining (remobilization?), some interbeds | | | | | | | | | |
| | | of chlorite schist, some interbeds of gr. chert, | | | | | | | | | |
| | | rarely disseminations of po | | | | | | | | | |
| 228.60 | 232.70 | highly altered basalt (hanging wall dacitic → andesitic) (tuff)<br>(228.60 - 231.00 m) | | | | | | ↓ | from here very familiar with BH 13 | | |
| | | high carbonaceous chlorite schist | | | 80° | | | | | | |
| | high A/C | gr, fine grained, laminated to well bedded, | | | | | | | | 230.60 | |
| | | spots of magnetite throughout | | | | | | | | correlates with 13/16 and 13/15 | |
| | | 229.00 m : spots, stringers of py and po 2 Vol-% | | | | | | | | | |
| | | 230.35 m : spots of po | | | | | | | | | |
| | | 232.10 m : 2 cm band of qtz keratophyr | | | | | | | | | |
| | | stringery and spotty py and po min. | | | | | | | | | |
| | | 5 Vol-% | | | | | | | | | |
| | | 232.30 m : 3 cm band of qtz keratophyr | | | | | | | | | |
| | | finest diss and stringers of py 3 Vol-% | | | | | | | | | |
| | | 232.40 m : 3 cm band of qtz keratophyr | | | | | | | | | |
| | | spotty py with exhalative mt | | | | | | | | | |
| | | high carbonaceous | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH 12 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 232.45-232.55: several smaller layers of qtz-keratophyr | | | | | | | | | |
| | | with spotted to stringery py | | | | | | | | | |
| | | mineralization, spotted not | | | | | | | | | |
| | | high carbonaceous | | | | | | | | | |
| 232.70 | 232.85 | qtz-keratophyr tuff | | | | | | | | | |
| | C | high carbonaceous qtz-biotite schist | | | | | | | | | |
| | | gr, well laminated, spots and stringers of | | | | | | | | | |
| | | py ±1 Vol-% | | | | | | | | | |
| 232.85 | 232.90 | py ore zone | | | 50° | | | | | | |
| 232.90 | 233.25 | qtz-keratophyr to dacitic tuff (lapilli at hanging) | | | | | | | | similar to 9/29 | |
| | | qtz-rich carbonaceous biotite schist (having chlorite predom. biotite) | | | | | | | | no correlation | |
| | | gr, extremely zick-zack folding, extremelly light | | | | | | | | | |
| | | dark banding | | | | | | | | | |
| | | Min: rare spots of py and cy | | | | | | | | | |
| | 80° | | | | | | | | | | |
| 233.25 | 233.35 | ore zone | | | | | | | | | |
| 233.35 | 233.85 | dacitic tuff | | | | | | | | | |
| | | carbonaceous biotite-chlorite schist | | | | | | | | | |
| | | grading into andesitic mat to hanging portion | | | | | | | | | |
| | | gr to grgn, fine grained, laminated | | | | | | | | | |
| | | 233.70: cm band of qtz-keratophyr | | | | | | | | | |
| | | with disseminated py 5 Vol-% | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 12 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 233.85 | 233.95 | qtz keratophyr | | | | | | | | | | |
| | | gr, massive, some flasers of chlorite mat. | | | | | | | | | | |
| | | some disseminations of py | | | | | | | | | | |
| 233.95 | 241.55 | highly altered basalt (flow and tuff) | | | | | | | | | | |
| | | carbonaceous to high carb biotite - chlorite schist | | | 75° | | | | | | | |
| | | gr, massive, in places lapilli texture, bombs of | | | | | | | | | | |
| | high ↑ / C | qtz-keratophyr, mt spotted until 139.10 /// | | | | | | | | | | |
| | | footwall high mt, small spots 0.1 cm max disseminated | | | | | | | | | | |
| | | homogeneous, 2 Vol-% | | | | | | | | | | |
| | | in places spotty py mostly associated with | | | | | | | | | | |
| | | qtz-keratophyr layers. | | | | | | | | | | |
| | | 234.60: bomb of qtz-kera | | | | | | | | | | |
| | | 235.40: " high carb with cy | | | | see same features at 126.05 BH 13<br>but here in qtz-keratophyr tuff | | | | | | |
| | | flasers and clusters of py | | | | | | | | | | |
| | | 236.50: bomb of translucent qtz | | | | | | | | | | |
| | | 236.65 - 236.75: agglomerate | | | | | | | | | | |
| | | felsic mat in basalt | | | | | | | | | | |
| | | 237.00 - 237.15: high carbonaceous qtz keratophyr | | | | | | | | | | |
| | | 237.30 - 237.50: andesitic tuff | | | | | | | | | | |
| | | high carbonaceous bio-bear chlorite schist | | | | | | | | | | |
| | | gn to grgn, laminated | | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 12 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 238.00 - 238.50 : high carbonaceous qtz keratophyr to dacitic tuff | | | | | | | | | |
| | | mainly carbonate rock | | | | | | | good equivalence too | | |
| | | | | | | | | | 135.70 - 136.05 m BH13 | | |
| | | some small lamina of exhalative mt | | | | | | | | | |
| | | 238.50 - 239.10 : andesitic to dacitic volc | | | | | | | | | |
| | | high carb. biotite - chlorite rock | | | | | | | | | |
| | | spots of mt all through | | | | | | | | | |
| 241.55 | 241.78 | andesitic to dacitic tuff | | | | | | | | | |
| | | carb. biotite-chlorite schist | | | | | | | | | |
| | | grgn, fine grained, well layered, bio pseudo- | | | | | | | | | |
| | | morph after amphibole, some cm bands of | | | | | | | | | |
| | | qtz-keratophyr interlayers, | | | | | | | | | |
| | | Min: rare spots of mt | | | | | | | | | |
| 241.78 | 241.83 | Py ore zone | | | | | | | | | |
| 241.83 | 241.93 | high altered basalt | | | | | | | | | |
| high ⊥ | | carb to high carb biotite chlorite schist | | | | | | | | | |
| 75° | | gn, coarse grained, well schistose | | | | | | | | | |
| 241.93 | 242.05 | Py ore zone | | | | | | | | | |
| 242.05 | 242.30 | dacitic tuff | | | | | | | | | |
| | | carb bearing qtz - chlorite schist | | | | | | | | | |
| | | light gn, fine grained, laminated, in places | | | | | | | | | |
| | | increase in chlorite and accompanied by biotite | | | | | | | | | |

# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

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| From | To | Description BH 12 | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 242.30 | 75°<br>242.50 | Py ore zone |  |  |  |  |  |  |  |  |  |
| 242.50 | 242.60 | see 242.05 - 242.30 |  |  |  |  |  |  |  |  |  |
| 242.60 | 242.63 | Py ore zone |  |  |  |  |  |  |  |  |  |
| 242.63 | 242.80 | andesitic to dacitic tuff |  |  |  |  |  |  |  |  |  |
|  |  | slightly carb. biotite-chlorite schist |  |  |  |  |  |  |  |  |  |
|  |  | see mainly 242.05 - 242.30 m |  |  |  |  |  |  |  |  |  |
| 242.80 | ////<br>246.05 | high altered basalt pyroclastic (mainly due alteration of andesitic and dacitic tuffs and interlayers of |  |  |  |  |  |  |  |  |  |
| high ∡ /c |  | qtz keratophyr with basaltic vol) |  |  |  |  |  |  |  |  |  |
|  |  | high carbonaceous mostly chlorite schists |  |  |  |  |  |  |  |  |  |
|  |  | gr, fine grained, well layered, spots of mt |  |  |  |  |  |  |  |  |  |
|  |  | sometimes with 0.5 cm size, some areas |  |  |  |  |  |  |  |  |  |
|  |  | agglomeratic to lapilli |  |  |  |  |  |  |  |  |  |
|  |  | 244.50 - 244.60: qtz - keratophyr with exhal. mt |  |  |  |  |  |  |  |  |  |
| 246.05 | 246.25 | Py ore zone |  |  |  |  |  |  |  |  |  |
| 246.25 | 247.00 | folding area may be faultplane |  |  |  |  |  |  |  |  |  |
|  |  | biotite - chlorite assemblage with flasey and |  |  |  |  |  |  |  |  |  |
|  |  | stringery exhalative mt |  |  |  |  |  |  |  |  |  |
| 247.00 | 253.00 | dacitic tuff with epiclastic components |  |  |  |  |  |  |  |  |  |
|  |  | qtz-rich carb. chlorite rock to even dacitic quartzite |  |  |  |  |  |  |  |  |  |
|  |  | gr to slightly gngr, fine grained to extremely |  |  |  |  |  |  |  |  |  |
|  |  | fine grained, massive, homogeneous, some spots of mt but insignificant<br>inplaces schistose and layered |  |  |  |  |  |  |  |  |  |

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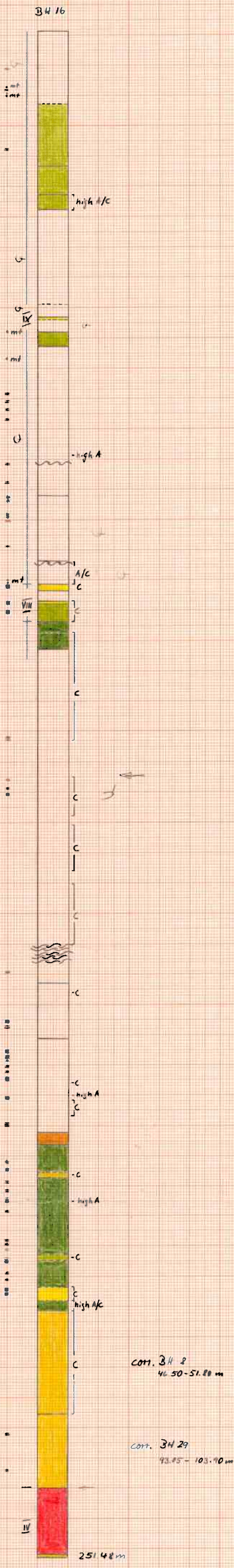
# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH 12 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 253.00 | 253.60 | highly altered basalt | | | | | | | | | |
| | with | garnet bearing chlorite schist | | | | | | | | | |
| | | gr. fine grained, crudely laminated, interbeds | | | | | | | | | |
| | | of andesitic to dacitic tuff, agglomeratic | | | | | | | | | |
| | | structure in places. | | | | | | | | | |
| | | Min: spots of mt throughout | | | | | | | | | |
| | | | | | | | | | | | |
| | | a.o. BH 253.60 m | | | | | | | | | |


BH 16
mt
mt
high A/C
IX
mt
mt
high A
A/C
mt
C
VIII
C
C
C
C
C
-C
-C
high A
C
-C
-high A
-C
C
high A/C
C
corr. BH 8
46.50-51.80 m
corr. BH 29
93.85 - 103.90 m
IV
251.48 m

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE

| From | To | Description BH 16 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| | 12.30 | tuffaceous series | | | | | | | | | | |
| | | basaltic tuff (may be even andesitic) | | | | | | | | | | |
| | | carbonaceous bio bearing amphibole schist | | | | | | | | | | |
| | | gr to grgn, medium grained only scarce fine grained, | | | | | | | | | | |
| | | well banded, layering cm scale often laminated | | | | | | | | | | |
| | | intervals, close alternation of qtz-carb rich layers | | | 45°-30° | | | | | | | |
| | | with amphibolite bands in places gradual changes | | | | | | | | | | |
| | | into qtz-keratophyr | | | | | | | | | | |
| | | Min: rare spots of Py | | | | | | | | | | |
| | | 6.15 – 6.85: qtz-keratophyr band | | | | | | | | | | |
| | | 6.85 - 8.45: greenschist (flow) | | | | | | | | | | |
| | | 9.05 - 9.30: | | | | | | | | | | |
| | | 9.40 m: qtz-keratophyr band | | | | | | | | | | |
| | | spots of mt: 9.90 - 11.60 m, | | | | | | | | | | |
| 12.30 | 22.40 | andesitic (tuff hanging → flow) may be even dacitic | | | 45° | | | | | | | |
| | | qtz-plagioclase garnet amphibolite (sometimes schist) | | | | | | | | sample | 16/1 | 19.40 m |
| | | grgn, medium cryst, hanging well layered by | | | | | | | | | | |
| | | cm to dm sections of carbonate, qtz-keratophyr, | | | | | | | | | | |
| | | basalt, mostly laminated sequence, | | | | | | | | | | |
| | | 13.60 - 22.40 m massive, homogeneous, flow rock | | | | | | | | | | |
| | | some irregular carbonate veining | | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH 16 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| 22.40 | 27.00 | basaltic to andesitic tuff (qtz-plagioclase carb-bearing-bio-var. amphibole schist) | | | | | | | | | | |
| | | grgn to gn, medium grained at hanging wall slightly | | | 50 - 60° | | | | | | | |
| | | coarse grained, well layered, mostly laminated | | | | | | | | | | |
| | | in places cm bands of fine cryst. amphibolite (basalt) | | | | | | | | | | |
| 27.00 | 29.40 | high altered andesitic tuff | | | | | | | | | | |
| | | high carb. qtz-rich biotite-chlorite schist | | | 50° | | | | | | | |
| | | bgnash, medium to slightly coarse grained, well | | | ꝛ | | | | | | sample | 16/2 |
| | [illegible] | bedded, often small scale folding, interlayer | | | | | | | | | | 27.50 m |
| | | occasionally dm sections of unaltered mat., | | | | | | | | | | |
| | | spotted carb. | | | | | | | | | | |
| | | 29.35 m: qtz-keratophyr bomb | | | | | | | | | | |
| 29.40 | 45.00 | basalt flow | | | 50° | | | | | | | |
| | | greenstone/schist amphibolite | | | | | | | | | sample | 16/3 |
| | | gn, fine cryst, homogeneous, in places well | | | 29.40 – 30.67 faultzone }<br>31.10 ) | | | | | | | 43.40 m |
| | | laminated, minor amounts in biotite, sometimes | | | 50° | | | | | | | |
| | | little carbonaceous, some interbeds of highly altered | | | | | | | | | | |
| | | basalt (cm) biotite-chlorite assemblage | | | | | | | | | | |
| | | 39.40 - 45.30 m: ut spots | | | | | | | | | | |
| 45.00 | (m)<br>47.15 | basaltic tuff | | | 45° | | | | | | | |
| | | garnet-plagioclase-amphibole schist | | | | | | | | | | |
| | | gn to grgn, medium to slightly coarse grained, | | | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | well bedded, lamination + cm banding, | | | | | | | | | | |
| | | cm bands of highly altered mat footgroup intensive | | | | | | | | | | |
| | | altered but alternation of unaltered and altered | | | | | | | | | | |
| | A → | mat biotite-chlorite assemblage with garnets | | | | | | | | | | |
| 47.15 | 47.60 | qtz-keratophyre | | | 45° | | | | | | | |
| | | garnet-amphibole-qtz-plagioclase rock/schist | | | | | | | | | | |
| | | gr, medium to fine grained, well bedded | | | | | | | | | | |
| 47.60 | 50.00 | basaltic to andesitic flow or tuff | | | | | | | | | | |
| | | garnet bearing plagioclase amphibole schist | | | 35° | | | | | | | |
| | | gn to grgn, medium cryst, homogeneous, laminated, | | | | | | | | | | |
| | | some subsidiary biotite, in places clear basaltic | | | | | | | | | | |
| | | gradually changing from clear andesitic to even | | | | | | | | | | |
| | | more felsic to basaltic mat | | | | | | | | | | |
| | | 41.50 - 49.50 m: spotted mt | | | | | | | | | | |
| 49.50 | 51.80 | andesitic flow | | | | | | | | | | |
| | | garnet-amphibole-plagioclase schist/rock | | | 45°<br>15° –<br>45° | 50.60m | | | | | | |
| | | grgn, medium crystalline, homogeneous | | | | | | | | | | |
| 51.80 | 76.65 | basaltic tuff or flow (may be mixed) | | | 45° | | | | | sampl 16/4 | | 70.50m |
| | | plagioclase amphibole to amphibole schist | | | | | | | | sample 16/5 | | 76.30m |
| | | gn, medium to in places slightly coarse grained, | | | | | | | | | | |
| | | well layered to even laminated, often cm alternation | | | | | | | | | | |
| | | | | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | of altered (biotite-chlorite areas) and unaltered | | | | | | | | | |
| | | layers, biotite often pseudomorph amphibole | | | | | | | | | |
| | | present throughout, sometimes spots of py | | | | | | | | | |
| | | 59.82 m: qtz-keratophyr lapilli | | | | | | | | | |
| | | 61.25 m: 2 cm band of qtz keratophyr | | | | | | | | | |
| | | 62.80 m: qtz-keratophyr bomb | | | | | | | | | |
| | | 64.00 m: " | | | | | | | | | |
| | | mt spots 53.00 - 55.00 m | | | | | | | | | |
| | A → | 69.50 - 69.65: altered basalt | | | | | | | | | |
| | | carb. bearing biotite-amphibole-chlorite schist | | | | | | | | | |
| | | gn, coarse grained, well layed | | | | 71.10 – 71.56 | | fault | zone | | |
| | high A → | 71.56 – 73.05: altered to even highly altered basalt | | | | 72.56 | ) | | | | |
| | | carbonaceous biotite-amphibole-chlorite schist | | | | 50° | | | | | |
| | | gn, coarse grained, well layed | | | | | | | | | |
| | | 71.40: qtz-keratophyr bomb | | | | | | | | | |
| | | 73.05 – 76.65: slightly altered basalt | | | | | | | | | |
| | | biotite - amphibolite | | | | | | | | | |
| | | gn to light brgn, medium cryst, homogeneous, | | | | | | | | | |
| | | bio laths randomly orientated, mainly | | | | | | | | | |
| | | pseudomorph amphibole | | | | | | | | | |
| | | 74.18 - 74.22: qtz-keratophyr band | | | | 85° | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 76.65 | 87.40 | basalt flow | | | | | | | | | |
| | | amphibolite | | | | | | | | | |
| | | gn, fine to slightly medium grained, often | | | | | | | | | |
| | | massive but sometimes laminated or crudely | | | | | | | | | |
| | | banded, homogeneous, biotite flakes as | | | | | | | | | |
| | | pseudomorphs to amphibole often existent | | | | | | | | | |
| | | 76.90: bomb qtz-kera. | | | | | | | | | |
| | | 77.05: " | | | | | | | | | |
| | | 77.87: " | | | | | | | | | |
| | | 79.87 to 80.30: several bombs of qtz-keratophyr | | | | | | | | | |
| | | 81.80 - 81.95: bands of qtz-keratophyr | | | 75° | | | | | | |
| | | 85.33 - 85.35: band of qtz-keratophyr | | | 60° | | | | | | |
| 1111<br>87.40 | 91.30 | slightly altered to even altered basalt flow | | | 87.50 - | 87.85 | fault zone | | | | |
| | | carbonaceous chlorite - biotite - amphibolite schist | | | 45° | | | | | | |
| | | gn, slightly coarse grained, crudely bedded, | | | | | | | | | |
| A/L | | homogeneous, biotite flakes a. [illegible] pseudomorph | | | | | | | | | |
| | | amphibole throughout, spotted to veiny carbonate | | | | | | | | | |
| | | 90.50 - 91.30: spots of mt | | | | | | | | | |
| section IX | high A | 90.80 - 91.30: highly altered basalt | | | | | | | | | |
| | | biotite - chlorite assemblage | | | 50° | | | | | | |
| 91.30 | 92.30 | qtz-keratophyr tuff to dacitic | | | | | | | | | |
| section | VIII | | | | | | | | | | |

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | high carbonaceous sericite - biotite qtz rock | | | | | | | | | | |
| | C | g/ to yellowish gr, fine grained, laminated | | | | | | | | | | |
| | | Min: spotty po, band of po at 92.25m | | | | | | | | | | |
| 92.30 | 94.00 | basalt flow | | | | | | | | | | |
| | | slightly carbonaceous amphibolite | | | | | | | | | | |
| | | gn, medium to coarse grained, massive to | | | | | | | | | | |
| | | widely banded | | | | | | | | | | |
| 94.00 | 94.50 | qtz-keratophyr | | | 45° | | | | | | | |
| | | high carbonaceous sericite - biotite qtz rock | | | | | | | | | | |
| | C | see above Min: spotted py mineralization < 1Vol-% | | | | | | | | | | |
| 94.50 | 97.30 | andesitic to dacitic flow | | | | | | | | sample | 16/6 | 96.65m |
| | | high carbonaceous plagioclase - amphibole rock | | | | | | | | | | |
| | C | grgn to yellowgr, medium to slightly coarse | | | | | | | | | | |
| section VIII | | grained, well layered spotted carb. | | | | | | | | | | |
| | | Min: occasionally mm bands of high py | | | | | | | | | | |
| 97.30 | 99.27 | basalt flow | | | | | | | | | | |
| | | carbonaceous amphibolite | | | | | | | | | | |
| | | gn, fine to slightly med grained, some | | | | | | | | | | |
| | | spotted carb., homogeneous | | | | | | | | | | |
| 99.27 | 101.95 | basaltic to andesitic vol. (flow) | | | | | | | | | | |
| | C | carbonaceous to high carbonaceous plagioclase-amphibolite | | | | | | | | | | |

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# DIAMOND DRILL LOG

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| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  | gi gn coarse grained, homogeneous, slightly |  |  |  |  |  |  |  |  |  |  |
|  |  | layered, spotted carb. |  |  |  |  |  |  |  |  |  |  |
| 101.95 | 157.10 | basalt flow |  |  |  |  |  |  |  |  |  |  |
|  |  | carbonaceous amphibolite |  |  |  |  |  |  |  |  |  |  |
|  |  | gn, fine vert. fine grained in places coarse interlayers, |  |  |  |  |  |  |  |  |  |  |
|  | C | massive, spotted to veiny carbonate, some dm |  |  |  |  |  |  |  |  |  |  |
|  | only to 117.00 m | intervals nearly free of carbonate after very |  |  | 111.00<br>75° |  |  |  |  |  |  |  |
| C | further from 123.00 – 129.20 m | high grade |  |  | 121.50 m<br>60° |  |  |  |  |  |  |  |
|  |  | 114.50 – 116.20: high carbonaceous plagioclase amphibolite |  |  |  |  |  |  |  |  |  |  |
| C | further from 131.00 – 138.50 | gn to gi gn, coarse grained, homogeneous, |  |  |  |  |  |  |  |  |  |  |
|  |  | massive, spotted carbonate, amphibole |  |  |  |  |  |  |  |  |  |  |
| C | 140.80 – 150.50 | randomly orientated |  |  |  |  |  |  |  |  |  |  |
|  |  | 116.50 – 116.52: qtz-Cca band |  |  | 75° |  |  |  |  |  |  |  |
|  |  | 116.65 – 116.70: " |  |  |  |  |  |  |  |  |  |  |
|  |  | 117.00 – 123.00: very slightly carbonaceous basalt |  |  |  |  |  |  |  | sample | 16/7 | 120.60 m |
|  |  | 123.65 – 123.75: band of qtz-Cca lophyr |  |  |  |  |  |  |  |  |  |  |
|  |  | 124.90 – 125.15: " |  |  |  |  |  |  |  |  |  |  |
|  |  | stringy py and po enriched in cm |  |  |  |  |  |  |  |  |  |  |
|  |  | bands, total < 1 Vol-% |  |  |  |  |  |  |  |  |  |  |
|  |  | 125.45 – 125.70: band of qtz-Cca lophyr |  |  |  |  |  |  |  |  |  |  |
|  |  | 2 bands of minimum 3 cm massive py |  |  |  |  |  |  |  |  |  |  |

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| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 129.20 - 131.00: slightly to not carb basalt | | | | | | | | | |
| | | 138.50 - 140.80: " | | | | | | | sample | 16/8 | 138.40m |
| | | 140.80 - 142.00: carbonaceous basalt | | | | | | | | | |
| | | gn, coarse grained, massive | | | | | | | | sample 16/9 | 147.80m |
| | | 155.00 - 155.05: band of qtz keratophyr | | | 150.50 - 153.20 | | fault zone | | | | |
| 157.10 | 166.20 | basalt flow | | | | | | | | | |
| | | slightly carbonaceous plagioclase amphibolite | | | | | | | | | |
| | | gn, medium to coarse grained, homogeneous, massive to slightly schistose, some spotted carb but only slightly carbonaceous. | | | | | | | | | |
| | C | 158.30 - 160.00: dacitic tuff | | | | | | | | | |
| | | slightly carb to some high carbonaceous chlorite-biotite-amphibole schist | | | | | | | | | |
| | | light gn, medium to fine cryst, well layered | | | 50° | | | | | | |
| | | homogeneous | | | | | | | | | |
| | | 163.25 - 163.35: qtz-keratophyr | | | 45° | | | | | | |
| | | Min: rich po and py mineralization | | | | | | | | | |
| | | spots (50 to 60 Vol.-%) | | | | | | | | | |
| | | 163.70 - 164.45: qtz-keratophyr | | | | | | | | | |
| | | Min: sections of 10 cm thickness with | | | | | | | | | |
| | | po and py are here especially | | | | | | | | | |
| | | rich in carbonate, throughout | | | | | | | | | |
| | | spots of py and po but with | | | | | | | | | |
| | | only minor concentration | | | | | | | sample | 16/10 | 166.10m |

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| From | To | Description BH 16 | DDH No. | Interval |  | Assays |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |  |
| 166.20 | 181.50 | basalt flow (with interlayers of qtz kera and basaltic tuff) |  |  |  |  |  |  |  | sample | 16/11 | 177.00m |
|  |  | amphibolite schist |  |  | 80° |  |  |  |  |  |  |  |
|  |  | gn. medium to fine grained, quickly development |  |  |  |  |  |  |  |  |  |  |
|  |  | of ellipsoidal amphibole, well schistose, |  |  |  |  |  |  |  |  |  |  |
|  |  | little carbonate as finest crosscutting veinlets |  |  |  |  |  |  |  |  |  |  |
|  |  | and some small spots, very homogeneous |  |  |  |  |  |  |  |  |  |  |
|  |  | 167.90 - 167.98: py ore band with qtz keratophyr |  |  | 80° |  |  |  |  |  |  |  |
|  |  | 168.60 - 168.75: mixed basalt + qtz keratophyr |  |  |  |  |  |  |  |  |  |  |
|  |  | with disseminated py mineralization |  |  |  |  |  |  |  |  |  |  |
|  |  | 30 to 40 Vol-% |  |  |  |  |  |  |  |  |  |  |
|  | A → | 168.75 - 168.85: altered basalt |  |  |  |  |  |  |  |  |  |  |
|  |  | chlorite-amphibolite |  |  |  |  |  |  |  |  |  |  |
|  |  | gn. coarse grained |  |  |  |  |  |  |  |  |  |  |
|  |  | 168.85 - 168.90: py ore band with qtz-keratophyr |  |  |  |  |  |  |  |  |  |  |
|  |  | 169.40 - 169.55: qtz-keratopyr band |  |  | 75° |  |  |  |  |  |  |  |
|  |  | some rare finest diss of po |  |  |  |  |  |  |  |  |  |  |
|  |  | 169.95 - 170.10: " |  |  |  |  |  |  |  |  |  |  |
|  |  | 170.85 - 170.95: " |  |  |  |  |  |  |  |  |  |  |
|  |  | 170.95 - 171.40: basaltic tuff |  |  |  |  |  |  |  |  |  |  |
|  |  | carbonaceous chlorite-bearing amphibolite |  |  | 45° |  |  |  |  |  |  |  |
|  |  | gn. medium to coarse grained, well layered |  |  |  |  |  |  |  |  |  |  |

# DIAMOND DRILL LOG

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| From | To | Description BH 16 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 171.80 – 171.95: qtz-keratophyr | | | | | | | | | |
| | | finest diss. of po and py 5 to 10 Vol-% | | | 80° | | | | | | |
| | | 173.00 – 173.15: " | | | | | | | | | |
| | | but here only py 10 to 15 Vol-% | | | | | | | | | |
| | ⊆ → | 173.15 – 174.50: basalt flow | | | 45° | | | | | | |
| | | carbonaceous plagioclase amphibolite | | | | | | | | | |
| | | gr to gngr, medium crystalline, | | | | | | | | | |
| | | massive to slightly schistose, homogeneous, | | | | | | | | | |
| | | spotted carb. | | | | | | | | | |
| | high A → | 175.80 – 176.20: high altered basalt | | | | | | | | | |
| | | carbonaceous amphibole bearing biotite-chlorite schist | | | | | | | | | |
| | | gn, coarse grained, massive | | | | | | | | | |
| | | 176.20 – 176.45: qtz-keratophyr | | | | | | | | | |
| | | 8 cm massive py ore | | | | | | | | | |
| | ⊆ → | 176.45 – 177.30: dacitic flow | | | | | | | | | |
| | | carbonaceous plagioclase-amphibole-chlorite schist | | | | | | | | | |
| | | lightgr, medium cryst, randomly orientated amphibole | | | | | | | | | |
| | | needles, homogeneous, spotted carb | | | | | | | | | |
| | | some spots of py | | | | | | | | | |
| | ⊆ | 177.30 – 178.40: carbonaceous basalt flow | | | | | | | | | |

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| From | To | Description BH 16 | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 180.00 - 180.10: qtz-Keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | disseminated py of 10 Vol-% |  |  |  |  |  |  |  |  |  |
|  |  | 180.30 m: qtz-Keratophyr band |  |  |  |  |  |  |  |  |  |
| 181.50 | 183.80 | translucent qtz |  |  |  |  |  |  |  |  |  |
|  |  | wh, irregular borders to surrounding basalts |  |  |  |  |  |  |  |  |  |
| 183.80 | 207.20 | basalt flow |  |  |  |  |  |  | sample | 16/12 | 193.90 m |
|  |  | see 166.20 - 181.50 but more fine grained, often slightly carbonaceous |  |  |  |  |  |  | sample | 16/13 | 196.00 m |
|  |  | 186.95 - 187.20: bands of qtz-Keratophyr |  |  |  |  |  |  | sample | 16/14 | 202.80 m |
|  |  | 187.30 - 187.95: porphyric amphibolite |  |  |  |  |  |  |  |  |  |
|  |  | spots of py throughout |  |  |  |  |  |  |  |  |  |
|  |  | 187.70 and 187.75: cm band of py ore |  |  |  |  |  |  |  |  |  |
|  | C | 188.05 - 189.20: dacitic flow |  |  |  |  |  |  |  |  |  |
|  |  | high carbonaceous amphibole - plag - qtz rock |  |  |  |  |  |  |  |  |  |
|  |  | gr to lightgrey, fine grained, massive |  |  |  |  |  |  |  |  |  |
|  |  | spotted carb, randomly orientated |  |  |  |  |  |  |  |  |  |
|  |  | needles of amphibole 0.1 to 0.2 cm |  |  |  |  |  |  |  |  |  |
|  |  | in size |  |  |  |  |  |  |  |  |  |
|  |  | 189.55 - 189.70: some cm bands of qtz-Keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | 190.95 - 191.05: qtz-Keratophyr |  |  | 80° |  |  |  |  |  |  |
|  |  | with 2 cm band of massive py, here |  |  |  |  |  |  |  |  |  |
|  |  | high in carbonate, hanging wall lapilli feature |  |  |  |  |  |  |  |  |  |

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| From | To | Description BH 16 | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 192.40 - 192.55: qtz - keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | lamina of amphibolite and |  |  |  |  |  |  |  |  |  |
|  |  | carbonate, rare dissemination |  |  |  |  |  |  |  |  |  |
|  |  | of po |  |  |  |  |  |  |  |  |  |
|  |  | 192.70 and 192.75: cm bands of high py in basalt |  |  |  |  |  |  |  |  |  |
|  |  | 192.80 - 193.70: qtz - keratophyr |  |  | 75° |  |  |  |  |  |  |
|  |  | fines diss. of py, ≤1 Vol.-% |  |  |  |  |  |  |  |  |  |
|  | high A | 193.70 - 194.50: high altered basalt |  |  |  |  |  |  |  |  |  |
|  |  | amphibole - chlorite schist |  |  |  |  |  |  |  |  |  |
|  |  | gn, coarse grained |  |  |  |  |  |  |  |  |  |
|  |  | 194.50 - 195.30: qtz - keratophyr |  |  | 80° |  |  |  |  |  |  |
|  |  | 196.50 - 197.50: in places high carbonaceous |  |  |  |  |  |  |  |  |  |
|  |  | spotted carb. |  |  |  |  |  |  |  |  |  |
|  |  | 199.10 - 199.25: qtz - keratophyr |  |  | 60° |  |  |  |  |  |  |
|  |  | finest diss in py and po, < 2 Vol.-% |  |  |  |  |  |  |  |  |  |
|  |  | 200.05 - 200.10: " |  |  |  |  |  |  |  |  |  |
|  |  | 200.95 - 201.00: high carb. qtz - keratophyr |  |  |  |  |  |  |  |  |  |
|  | ⊆ | 201.70 - 202.70: andesitic tuff or flow |  |  | 45° |  |  |  |  |  |  |
|  |  | high carbonaceous plagioclase amphibole schist |  |  |  |  |  |  |  |  |  |
|  |  | ggn, medium to slightly coarse grained, well |  |  |  |  |  |  |  |  |  |
|  |  | layered (cm scale), spotted carb., in places |  |  |  |  |  |  |  |  |  |

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| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | slightly chloritic, | | | | | | | | | | |
| | | 202.52 – 202.55: qtz-keratophyr | | | | | | | | | | |
| | | carbonate rich, spotted py, | | | | | | | | | | |
| | | about 10 Vol-% | | | | | | | | | | |
| | | 202.55 – 202.65: graphite bearing andesitic to basaltic tuff | | | | | | | | | | |
| | | 202.70 - 202.90: qtz-keratophyr | | | | | | | | | | |
| | | disseminated py and high | | | | | | | | | | |
| | | grade py-ore (202.70 - 202.73) | | | | | | | | | | |
| | | 204.70 - 204.78: qtz-keratophyr | | | 45° | | | | | | | |
| | | finest disseminations of py < 1 Vol-% | | | | | | | | | | |
| | | 205.70 - 205.73: " | | | | | | | | | | |
| | | py diss 3 Vol-% | | | | | | | | | | |
| 207.20 | 208.70 | qtz-keratophyr to dacite | | | | | | | | sample | 16/15 | 207.60m |
| | | carb to partly high carb. amphibole-chlorite-qtz rock | | | | | | | | | | |
| | C | ich, fine grained groundmass, porphyritic texture | | | | | | | | | | |
| | | with amphibole needles 0.1 to 2.0 cm in length | | | | | | | | | | |
| | | orientated to crudely orientated, sometime | | | | | | | | | | |
| | | amphibole poor sections, to lying part slowly | | | | | | | | | | |
| | | increasing content in amphibole and chlorite | | | | | | | | | | |
| | | py dissemination grading locally to py ore | | | | | | | | | | |
| | | 207.30 (20 Vol-%), 208.20 (10 Vol-%) | | | | | | | | | | |

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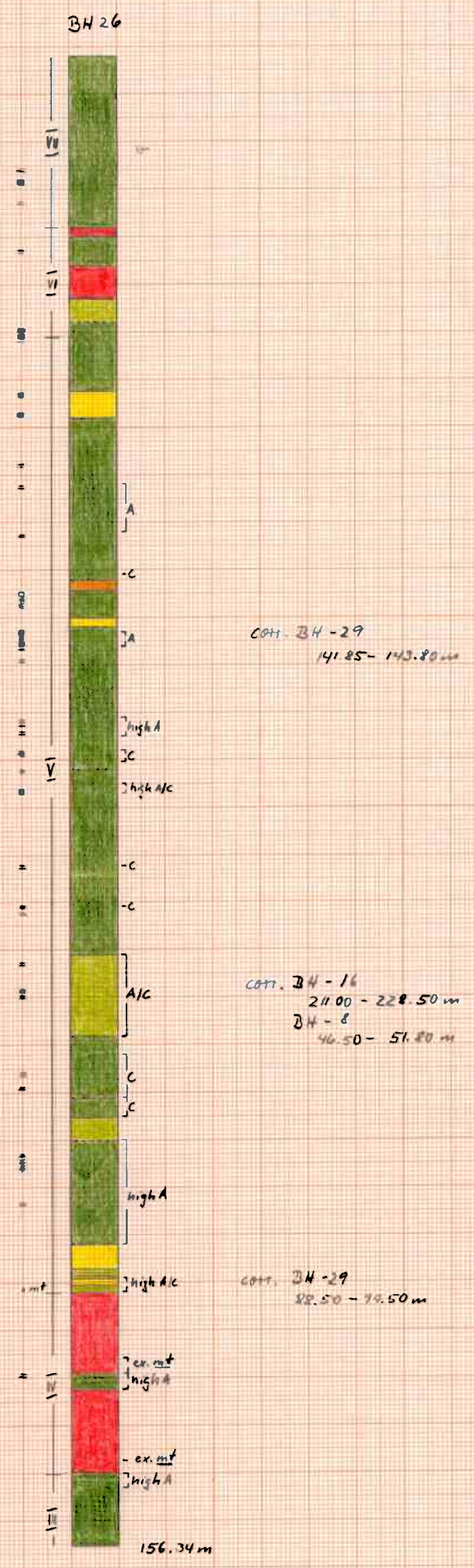
| From | To | Description BH 16 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| unit<br>208.70 | 211.00 | basaltic to andesitic tuff | | | 45° | | | | | | | |
| | | high carbonaceous bio bearing chlorite schist | | | | | | | sample 16/16 210.60m | | | |
| | high +/S | gr, fine to med cryst, well layered, in places | | | | | | | | | | |
| | | agglomeratic - lapilli texture, cm to mm bands | | | | | | | | | | |
| | | of qtz-keratophyr with dissem. Py < 1 Vol-%. | | | | | | | | | | |
| | | small scale folding | | | | | | | | | | |
| 211.00 | 228.50 | dacitic to andesitic flow in places slightly basaltic (high carbon. qtz-rich chlorite - amphibole rock) | | | | | | | | | | |
| | | grgn, medium to slightly coarse grained, massive, | | | | | | | sample 16/17 215.30 m | | | |
| | C/ | homogeneous, spotted carbonate, some interbeds | | | | | | | | corr. BH-8<br>46.50-51.80m | | |
| | | of qtz-keratophyr with rare diss of Py | | | | | | | | | | |
| 228.50 | 240.53 | dacitic tuff to lapilli | | | | | | | | | | |
| | | slightly carbonaceous biotite - chlorite schist | | | 75° | | | | correlates with | | | |
| | | lightgn, fine crystalline, spotted biotite sometimes | | | 238.10 | | | | dacitic section of<br>BH 29 | | | |
| section | | clusters, inhomogeneous | | | | | | | | | 92.00 m to<br>180 a.s.o. | |
| V | | 231.60-232.60: qtz-keratophyr | | | | | | | sample 16/18 236.30m | | | |
| | | 237.30 -237.50: | | | 60° | | | | | | | |
| 240.53 | 251.33 | ore zone | | | | | | | | | | |
| 251.33 | 251.48 | dacitic tuff | | | | | | | | | | |
| | | see 228.50 - 240.53 | | | | | | | | | | |
| | | a.o. BH 251.48 | | | | | | | | | | |


BH 26
VII
VI
A
-c
A
high A
C
V
high A/c
-c
-c
A/c
C
C
high A
mt
high A/c
ex. mt
high A
IV
- ex. mt
high A
III
156.34 m
corr. BH - 29
141.85 – 143.80 m
corr. BH - 16
211.00 - 228.50 m
BH - 8
46.50 – 51.80 m
corr. BH -29
88.50 – 99.50 m

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| From | To | Description BH 26 | DDH No. | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | basalt section | | | | | | | | | |
| | | 0.00 - 18.00: slightly carbonaceous plagioclase amphibolite | | | | | | | | | |
| | | gr, med grained, massive to crudely | | | | | | | | | |
| | | schistose, some spotted carb interbedded | | | | | | | | | |
| | | some fine cryst layers of greenschist, at hanging wall of ore slightly chloritic | | | | | | | | | |
| | | 11.84 - 12.00: qtz - keratophyr | | | | | | | | | |
| | | some spotty py | | | | | | | | | |
| | | 13.16 - 13.25: py ore | | | | | | | | | |
| | | 1530 - 1545: qtz - keratophyr | | | | | | | | | |
| | | with nearly massive py and po | | | | | | | | | |
| 18.00 | 19.16 | py ore | | | | | | | | | |
| 19.16 | 20.30 | basalt | | | | | | | | | |
| | | slightly carb. to carb amphibole - chlorite rock | | | | | | | | | |
| | | gr, medium to slightly coarse grained, massive, | | | | | | | | | |
| | | spotted carb. | | | | | | | | | |
| 20.30 | 20.35 | qtz - keratophyr | | | | | | | | | |
| | | gr, massive, with interbeds (cm) of coarse amphibolite, | | | | | | | | | |
| | | stringery and spotty po mineralization 3 Vol. % | | | | | | | | | |
| 20.35 | 22.20 | basalt | | | | | | | | | |
| | | see 19.16 to 20.30 m | | | | | | | | | |

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| From | To | Description BH 26 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22.20 | 25.54 | py ore | | | | | | | | | |
| 25.54 | 27.00 | andesitic volc | | | | | | | | | |
| | | carbonaceous plagioclase-rich amphibolite | | | 30° | | | | | | |
| | | gr, medium to slightly coarse grained, crudely | | | | | | | | | |
| | | layered, amphiboles mainly randomly orientated | | | | | | | | | |
| | | hanging wall - contact to py ore is mainly | | | | | | | | | |
| | | chloritic, some cm interbeds of qtz-keratophyr | | | | | | | | | |
| 27.00 | 54.90 | basalt flow (slightly altered) | | | | | | | | | |
| | | carbonaceous to slightly carb chlorite bearing to chlorite amphibolite | | | | | | | | | |
| inplace C at least to about 45.00 | | gr, medium to slightly coarse grained, massive | | | | | | | | | |
| | | to slightly layered or banded, spotted carbonate, | | | | | | | | | |
| mainly between 45.00 to 50.00 | | typical randomly orientated amphiboles often | | | | | | | | | |
| | | as ellipsoidal grains | | | | | | | | | |
| | | 29.08 - 29.28: massive py ore flanked by cm | | | 22 | | | | | | |
| | | layers of qtz-keratophyr | | | | | | | | | |
| | | 29.74 - 30.05: qtz-keratophyr | | | | | | | | | |
| spotted C 54.00-54.90 | | with band (29.74 - 29.89) of massive | | | | | | | | | |
| | | py | | | | | | | | | |
| | | 35.60 - 38.10: qtz-keratophyr | | | | | | | | | |
| | | finest disseminations of po some | | | | | | | | | |
| | | rare spots of py, high impregnated section | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH 26 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| | | from 35.70-36.00 and 38.00-38.10, content | | | | | | | | | | |
| | | about 20-30 Vol.-% | | | | | | | | | | |
| | | 43.20 - 43.42: qtz-keratophyr | | | | | | | | | | |
| | | finest disseminations of po 2 Vol.-% | | | | | | | | | | |
| | | 45.30 - 45.45: qtz-keratophyr | | | | | | | | | | |
| | | surrounded by cm bands of massive | | | | | | | | | | |
| | | py | | | | | | | | | | |
| | | 45.90 - 46.00: translucent qtz | | | | | | | | | | |
| | | 50.30 - 50.40: qtz-keratophyr | | | | | | | | | | |
| | | finest diss of po < 2 Vol.-% | | | | | | | | | | |
| 54.90 | 56.25 | translucent qtz | | | | | | | | | | |
| 56.25 | 74.90 | basalt flow | | | 40° | | | | | | | |
| | | slightly carbonaceous amphibolite | | | | | | | | | | |
| | | gn. medium crystalline, widely development of | | | | | | | | | | |
| | | orientation, ellipsoidal amphiboles often randomly | | | | | | | | | | |
| | | orientated but in places well aligned to schistosity, | | | | | | | | | | |
| | | some spots of carbonate and irregular veining | | | | | | | | | | |
| | | 56.27 - 56.30: Qtz-keratophyr with po min 60 Vol.-% | | | | | | | | | | |
| | | 56.35: keratopyr bomb | | | | | | | | | | |
| | | 56.45: " | | | | | | | | | | |
| | | 59.00 - 60.00: qtz-keratophyr | | | 70° | | | | | | | |

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# DIAMOND DRILL LOG

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| From | To | Description BH - 26 | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | finest disseminations of mt and po |  |  | 59 40 |  |  |  |  |  |  |
|  |  | < 1 Vol -% |  |  | 0° |  |  |  |  |  |  |
|  |  | 60 40 - 60 50 : qtz-keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | giant spots of py and po evolving |  |  |  |  |  |  |  |  |  |
|  |  | a nearly massive ore (80 Vol -%) |  |  |  |  |  |  |  |  |  |
|  | A | 60.50 - 62 50 : altered basalt |  |  |  |  |  |  |  |  |  |
|  |  | chlorite amphibolite (in places even chlorite predomination) |  |  |  |  |  |  |  |  |  |
|  |  | cm medium to slightly coarse grained, |  |  |  |  |  |  |  |  |  |
|  |  | massive, inhomogeneous, needles of |  |  | ∿ |  |  |  |  |  |  |
|  |  | amphibole 0.1 to 1.0 cm randomly |  |  |  |  |  |  |  |  |  |
|  |  | orientated. Slightly to well carbonaceous |  |  |  |  |  |  |  |  |  |
|  |  | in places, some spots of py |  |  |  |  |  |  |  |  |  |
|  |  | 60 70 - 60 85: qtz-keratophyr |  |  | 45° |  |  |  |  |  |  |
|  |  | cm banded py ore, total |  |  |  |  |  |  |  |  |  |
|  |  | 80 Vol % |  |  |  |  |  |  |  |  |  |
|  | C | 61.15 - 61.18 : qtz-keratophyr |  |  | 20° |  |  |  |  |  |  |
|  |  | high in carbonate, surrounded |  |  |  |  |  |  |  |  |  |
|  |  | by cm layers of rich carb |  |  |  |  |  |  |  |  |  |
|  |  | disseminated py min of |  |  |  |  |  |  |  |  |  |
|  |  | 8 Vol -% |  |  |  |  |  |  |  |  |  |
|  |  | 61 60 : stringers po and py |  |  |  |  |  |  |  |  |  |

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| From | To | Description BH-26 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | C | 61.95 - 62.50: qtz-keratophyr with basalt | | | v/c | | | | | | |
| | | high carbonaceous, finest | | | | | | | | | |
| | | diss of po and py sometimes | | | | | | | | | |
| | | building rich ore, normally | | | | | | | | | |
| | | 2 Vol-% | | | | | | | | | |
| | | 64.15 - 64.30: qtz-keratophyr | | | 70° | | | | | | |
| | | disseminations of po, in places stringers | | | | | | | | | |
| | | or network like mineralization, remains | | | | | | | | | |
| | | totally 2 Vol-% | | | | | | | | | |
| | | 66.40 - 66.43: qtz-keratophyr | | | | | | | | | |
| | | disseminations of po, in places stringers | | | | | | | | | |
| | | or lamina, totalling 3 Vol-% | | | | | | | | | |
| high k/ | 10 k/h | 69.50 - 71.60: altered basalt | | | | | | | | | |
| | | mainly amphibole - biotite - chlorite ass. | | | | | | | | | |
| | | but too with increasing amphibole and demand of bio | | | | | | | | | |
| | | gr, medium in places slightly coarse grained, | | | | | | | | | |
| | | massive to weakly schistose, homogeneous, | | | | | | | | | |
| | | 69.85 - 69.90: qtz-keratophyr (translucent qtz) | | | 45° | | | | | | |
| | | rich in carbonate, finest | | | | | | | | | |
| | | diss in po ≤ 1 Vol-% | | | | | | | | | |
| | | 70.60 - 70.64: qtz keratophyr | | | | | | | | | |

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# DIAMOND DRILL LOG

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| From | To | Description BH - 26 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | veining of py and po, nearly massive ore | | | | | | | | | |
| high | A/C | 70.70 - 71.60: close alternation of one to | | | | | | | | | |
| | | even dm qtz-keratophyr layers | | | | | | | | | |
| | | with dm altered basalt. | | | | | | | | | |
| | | qtz-kera often high py mineralized | | | | | | | | | |
| | | commonly reaching 15 vol-%, | | | | | | | | | |
| | | mainly as giant spots | | | | | | | | | |
| | C | 72.80 - 74.20: carbonaceous basalt | | | | | | | | | |
| | | spotted carbonate | | | | | | | | | |
| | | 73.16: bombs of translucent qtz | | | | | | | | | |
| 74.90 | 94.50 | slightly altered basalt flow | | | 45° | | | | | | |
| | | chlorite bearing amphibolite | | | | | | | | | |
| | | gn, fine to slightly medium cryst., massive with | | | | | | | | | |
| | | evidently development of orientation, homogeneous, | | | | | | | | | |
| | | amphibole is looking slightly decomposed (biotitic) | | | | | | | | | |
| | | some irregular carb. veining sometimes rare spots | | | | | | | | | |
| | | 75.00: bombs of translucent qtz | | | | | | | | | |
| high | A/C | 76.50 - 77.55: highly altered basalt | | | | | | | | | |
| | | high carbonaceous chlorite schist | | | | | | | | | |
| | | gn, fine grained, inhomogeneous, | | | | | | | | | |
| | | spots and giant spots of carb | | | | | | | | | |

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| From | To | Description BH 26 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| | | sometime finest needles of amphibole, | | | | | | | | | | |
| | | spot of py throughout < 1Vol-% | | | | | | | | | | |
| | | 77.25 - 77.30 : Qtz-Keratophyr | | | | | | | | | | |
| | | spotted py and po, | | | | | | | | | | |
| | | 60 Vol-% | | | | | | | | | | |
| | | 84.40 - 85.00 : carbonaceous to slightly carb. section | | | | | | | | | | |
| | | spotts of carb, veining, fissures | | | | | | | | | | |
| | ⊆ | 85.20 - 85.25 : qtz-Keratophyr | | | | | | | | | | |
| | | high carbonaceous some layers of | | | | | | | | | | |
| | | amphibole rich mat interbedded | | | | | | | | | | |
| | | giant spots of py total amount < | | | | | | | | | | |
| | | 1Vol-% | | | | | | | | | | |
| | ⊆ | 89.40 - 89.50: qtz Keratophyr | | | | | | | | | | |
| | | high carbonaceous, lamina and | | | 45° | | | | | | | |
| | | finest diss of po, total minera- | | | | | | | | | | |
| | | lization about 5 Vol-% | | | | | | | | | | |
| | | 90.00 - 90.02 : qtz - Keratophyr | | | | | | | | | | |
| | | some rare giant spots of py | | | | | | | | | | |
| 94.50 | 103.20 | basaltic to andesitic flow (slightly altered to altered) | | | | | | | | | correlates well | |
| | | high carbonaceous to carb. plagioclase-chlorite-amphibole rock | | | | | | | | | with BH 16 | |
| | ⊆ | grey, coarse grained, massive to crudely orientated, | | | | | | | | | sample 26/1 | |
| | | | | | | | | | | | 96.00 m | |

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| From | To | Description BH - 26 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | homogeneous, 0 2 to 1.5 cm needles of amphibole | | | | | | | | | |
| | | randomly orientated, spotted carb, sometimes cm bands of high A (biotite-chlorite ass.) | | | | | | | | | |
| | | 96.25 - 96.35: qtz-keratophyre bands | | | | | | | | | |
| | | disseminated py 5 Vol-% | | | | | | | | | |
| | | 98.30 - 98.40: py ore (8 Vol-%) with | | | | | | | | | |
| | | qtz keratophyre | | | | | | | | | |
| | | 98.45 - 98.50: py ore (80 Vol-%) within | | | | | | | | | |
| | | qtz-keratophyre | | | | | | | | | |
| | | 98.70 - 98.90: qtz-keratophyre | | | 40° | | | | | | |
| | | with diss py grading locally to 30 Vol-% | | | | | | | | | |
| | | 99.00 - 99.20: qtz-keratophyre | | | | | | | | | |
| | | cm-layering of highly altered basalt | | | | | | | | | |
| | | finest diss. of po and py arranged | | | | | | | | | |
| | | to pearl like features, total 1 Vol-% | | | | | | | | | |
| high A | | 99.20 - 99.40: highly altered basalt | | | | | | | | | |
| | | biotite-chlorite schist | | | | | | | | | |
| 103.20 | 109.50 | basalt flow | | | 45° | | | | | | |
| | | slightly carb amphibolite grading into carbonaceous amphibolite | | | | | | | | | |
| | | gr, medium grained to sometimes more fine grt, | | | | | | | | | |
| | C from 104.90 | in places ellipsoidal amphibole, crudely development | | | | | | | | | |
| | | of orientation, becoming slightly chloritic to bottom. | | | | | | | | | |

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| From | To | Description BH-26 | DDH No. | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 106.95 - 106.98: qtz-keratophyr | | | | | | | | | |
| | | dissemination of py to about 10Vol-% | | | | | | | | | |
| | | 107.10 - 107.15: 〃 | | | | | | | | | |
| | | 108.65 - 108.75: qtz-keratophyr | | | | | | | | | |
| | | giant spots of py, < 1Vol-% | | | | | | | | | |
| 109.50 | 112.60 | basalt flow | | | | | | | | | |
| | | carbonaceous amphibolite | | | | | | | | | |
| | | gn, medium grained, massiv, homogeneous, | | | | | | | | | |
| | ⊆ | not orientated amphibole, spotted carb | | | | | | | | | |
| 112.60 | 114.42 | andesitic to dacitic volc. | | | | | | | | | |
| | | biotite-chlorite schist | | | | | | | | | |
| | | lightgn, fine grained, well layered, homogeneous, | | | | | | | | | |
| | | finest spots of biotite, some irregular carbonate | | | | | | | | | |
| 114.42 | 124.80 | highly altered basalt | | | 60° | | | | | | |
| night | | slightly carbonaceous to carb. bio bearing chlorite schist | | | | | | | | | |
| | | gn, fine grained, light mat, carbonate very inhomogeneous | | | | | | | | | |
| | | as giant spots, layers or stringers, irregular minor | | | | | | | | | |
| | | spots, sometimes huge lath of amphibole (15 to 20cm), | | | | | | | | | |
| | | rarely spots of py | | | | | | | | | |
| | | 115.40 - 116.00: qtz-keratophyr | | | | | | | | | |
| | | amphibole and chlorite bearing, | | | | | | | | | |

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH 26 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | minor spots and disseminations | | | | | | | | | |
| | | of po and py, < 1Vol-% | | | | | | | | | |
| | | 116.56 - 116.76: bombs of qtz-Keratophyr | | | | | | | | | |
| | | 121.80 - 121.90: qtz-Keratophyr | | | 60° | | | | | | |
| | | finest diss of po, < 1Vol-% | | | | | | | | | |
| 124.80 | 127.40 | qtz-Keratophyr and translucent qtz | | | | | | | | | |
| | | some stringy, spotty po and py mineralization | | | | | | | | | |
| | | << 1Vol-%, rare irregular spots of cp and mt | | | | | | | | | |
| 127.40 | 128.10 | andesitic tuff | | | | | | | correlates with | | |
| | | carbonate bearing qtz-plagioclase-biotite-chlorite-amphibole schist | | | | | | | BH 29 | | 89.60 - 90 ... |
| | | gr, coarse grained, well layered, inhomogeneous, | | | | | | | | | |
| | | in places altered | | | | | | | | | |
| | | 127.80 - 127.83: qtz-Keratophyr | | | | | | section correlates | | | |
| | | disseminated py-min. 15 Vol-% | | | | | | | well with BH 29 | | |
| 128.10 | 128.70 | dacitic tuff (lapilli) | | | | | | | | | |
| | | biotite chlorite schist | | | | | | | | | |
| | | gr, medium grained, well layered, homogeneous, | | | | | | | | | |
| | | spotted bio | | | | | | | | | |
| 128.70 | 129.10 | qtz-Keratophyr | | | | | | | | | |
| | | stringy cp and mt mineralization | | | | | | | | | |

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| From | To | Description BH - 26 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 129.10 | 130.00 | high altered andesitic tuff | | | | | | | | | |
| | high A/C | qtz-rich biotite-chlorite schist | | | | | | | | | |
| | | gign, coarse grained, very inhomogeneous in | | | | | | | | remainds to | |
| | | habit, sometimes even basaltic with giant | | | | | | | | Bio. qtz schist of BH 27 | |
| | | spots of carb and spots of mt, some irregular | | | | | | | | | |
| | | cy | | | | | | | | | |
| 130.00 | 148.83 | ore zone | | | | | | | | | |
| | | 136.20 - 138.40 exhalative mt rich section | | | | | | | | | |
| | high A/C | 138.40 - 140.30 highly altered basalt | | | | | | | | | |
| | | carbonaceous biotite-chlorite schist | | | | | | | | | |
| | | gn. medium grained, inhomogeneous, | | | | | | | | | |
| | | very folded, fine spots of carb., | | | | | | | | | |
| | | stringy cy and spotty py and mt | | | | | | | | | |
| | | min < 1Vol-% | | | | | | | | | |
| | | 147.30 - 147.70. exhalative mt bearing section | | | | | | | | | |
| 148.83 | 149.60 | highly altered basalt | | | | | | | | | |
| | high t | carbonate bearing biotite-chlorite schist | | | | | | | | | |
| | | gn, fine grained, very inhomogeneous, irregular | | | | | | | | | |
| | | features of qtz and carbonate, light mat., bio | | | | | | | | | |
| | | mostly as large crystals (0.5 to 0.7 cm) pseudo- | | | | | | | | | |
| | | morph to amphibole randomly orientated, gradual transition into slightly altered and unaltered basalt | | | | | | | | | |

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**FOLLDAL VERK A/S**

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| From | To | Description BH-26 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 14960 m | 156.34 | basalt flow | | | 30° | | | | | | |
| | | amphibole schist | | | | | | | | | |
| | | gr., fine crystalline, well schistose, sometimes | | | | | | | | | |
| | | laminated, homogeneous. | | | | | | | | | |
| | | at hanging wall slightly altered, biotite | | | | | | | | | |
| | | pseudomorph amphibole | | | | | | | | | |
| | | | | | | | | | | | |
| | | a.o. BH. 156.34 m | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

| From | To | Description BH 28 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 8.90 | qtz-keratophyr | | | | | | | | | |
| | | mostly very massive, poor in femic compounds, some | | | | | | | | | |
| | | laths of amphibole but randomly orientated mainly | | | 5.60-5.70 fault zone | | | ϟ | | | |
| | | 0.2 cm size but too up to 1.0 cm, often translucent | | | | | | | | | |
| | | qtz | | | | | | | | | |
| | | 3.60 - 3.70: disseminated po sometimes enriched in | | | | | | | | | |
| | | mm to cm layers 10 Vol-% | | | | | | | | | |
| | | 5.60 - 5.90: irregular py mineralization mainly in | | | | | | | | | |
| | | stringers, remains < 5 Vol-% | | | | | | | | | |
| | | 6.10 - 6.15: high grade po and py mineralization, 60 Vol-% | | | | | | | | | |
| | ∡ | 6.75 - 7.00: altered basalt | | | | | | | | | |
| | | amphibole - chlorite rock | | | | | | | | | |
| | | gn, coarse grained, porphyritic texture | | | | | | | | | |
| | | with amphibole, mainly of ellipsiodal | | | | | | | | | |
| | | shape and up to 1.5 cm in size, slightly | | | | | | | | | |
| | | orientated | | | | | | | | | |
| 8.90 | 12.15 | basaltic tuff (slightly altered) | | | 30° | | | | | | |
| | | slightly carbonaceous biotite - chlorite - amphibole schist | | | | | | | | | |
| | | gn, medium grained, well layered in places laminated, | | | | | | | | | |
| | | needles of amphibole 0.1 to 0.3 cm in size sometimes | | | | | | | | | |
| | | graiding to 1.0 cm. randomly orientated | | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

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| From | To | Description BH-28 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 12.15 | 13.50 | basalt flow | | | | | | | | | |
| | | slightly carbonaceous greenschist (amphibolite) | | | | | | | | | |
| | | gn, fine grained, widely schistose, often massive, | | | | | | | | | |
| | | homogeneous, irregular interfingering of carb. | | | | | | | | | |
| | | occasionally spots, grainsize increases slowly | | | | | | | | | |
| | | from footwal upsection - medium grained and | | | | | | | | | |
| | | homogeneous from about 13.50 m | | | | | | | | | |
| 13.50 | 27.90 | basaltic section | | | | | | | | | |
| | | slightly carbonaceous plagioclase amphibolite | | | | | | | | | |
| | | gn to grgn, medium grained in places even coarse, | | | | | | | | | |
| | | massive, mainly homogenic, intersections of porphyric | | | | | | | | | |
| | | basalt sometimes altered to chlorite-amphibole | | | | | | | | | |
| | | assemblages | | | | | | | | | |
| | | 18.50 - 19.10 altered basalt | | | | | | | | | |
| | | carbonate bearing amphibole-chlorite rock | | | | | | | | | |
| | | gn, porphyritic texture, needles of | | | | | | | | | |
| | | amphibole of 0.2 to 2.0 cm size in | | | | | | | | | |
| | | fine grained chloritic matrix, randomly | | | | | | | | | |
| | | orientated amph. | | | | | | | | | |
| | | 19.10: bonch of qtz-carbonate | | | | | | | | | |
| | | 19.30 - 20.00 andesitic to dacitic interlayer | | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

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| From | To | Description BH 28 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | slightly carb. qtz-rich amphibole-chlorite rock | | | | | | | | | |
| | | gn, fine grained, porphyritic texture | | | | | | | | | |
| | | 0.2 to 2.0 cm amphibole needles | | | | | | | | | |
| | | not orientated. | | | | | | | | | |
| | | 19.60: Qtz-bomb | | | | | | | | | |
| | | 21.30 - 21.55: andesitic to dacitic interlayer | | | | | | | | | |
| | | see above | | | | | | | | | |
| | A | 2180 - 2195: altered basalt | | | | | | | | | |
| | | see 18.50 - 19.10 | | | | | | | | | |
| | A | 2295 - 23.00: altered basalt | | | | | | | | | |
| | | see 18.50 - 19.10 | | | | | | | | | |
| | | 23.40 - 24.00: dacitic to even Qtz-Keratophyric interlayer | | | | | | | | | |
| | | no amphibolite but otherwise see | | | | | | | | | |
| | | 19.30 - 20.00 m | | | | | | | | | |
| | high A | 2590 - 2790: high altered basalt | | | | | 45° | | | | |
| | | carbonate bearing amphibole bearing chlorite schist/rock | | | | | | | | | |
| | | gn, fine grained porphyric amphibole | | | | | | | | | |
| | | of 0.2 to 2.5 cm size randomly | | | | | | | | | |
| | | orientated, sometimes good spherolites, | | | | | | | | | |
| | | well layered cm to dm scale sometimes | | | | | | | | | |
| | | massive, slowly incomming sericite at hanging | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-28 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 27.90 | 35.70 | dacitic tuff (lapilli) | | | 45° | | | | | | |
| | | sericite-biotite-chlorite schist | | | | | | | | | |
| | | light gn, fine grained, well layered to | | | | | | | | | |
| | | slightly laminated, spotted bio, nodules | | | | | | | | | |
| | | and lenses of qtz and carbonate (lapilli), | | | | | | | | | |
| | | homogeneous | | | | | | | | | |
| 35.70 | 41.30 | qtz-keratophyr | | | | | | | | | |
| | | sericite-plagioclase-qtz rock | | | | | | | | | |
| | | gr to slightly reddish gr, fine grained with | | | | | | | | | |
| | | 0.5 cm spots of feldspar, homogeneous, | | | | | | | | | |
| | | massive, in places schistose | | | | | | | | | |
| 41.30 | 74.40 | dacitic tuff (lapilli) | | | 51.00 m to 54.90<br>20°<br>sometimes | | | | | | |
| | | qtz-plagioclase chlorite-sericite rock / schist | | | | | | | | | |
| | | light gn, fine grained, often massive but too laminated, layered | | | | | | | | | |
| | | 45.40-45.70: qtz-lens to translucent qtz | | | | | | | | | |
| | | 53.35 - 53.90 high altered basaltic tuff | | | | | | | | | |
| | | amphibole-chlorite schist | | | | | | | | | |
| | | gn to grgn, fine grained with huge crystals | | | | | | | | | |
| | | of amphibole (1.0 ⌀), well layered, | | | | | | | | | |
| | | very inhomogeneous, bands of qtz- | | | | | | | | | |
| | | carbonate | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH-28 | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 53.90 - 54.90 : qtz-keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | some cm interlayers of altered basalt |  |  |  |  |  |  |  |  |  |
|  |  | (chlorite-amphibole assemblage) |  |  |  |  |  |  |  |  |  |
|  |  | py layers of mm size 54.70 to |  |  |  |  |  |  |  |  |  |
|  |  | 5490 total amount 2 Vol-% |  |  |  |  |  |  |  |  |  |
| high AK | — | 54.90 - 56.50: high altered basalt |  |  |  |  |  |  |  |  |  |
|  |  | carbonaceous amphibole bear. chlorite schist |  |  |  | 45° |  |  |  |  |  |
|  |  | gr., fine grained, homogeneous, |  |  |  |  |  |  |  |  |  |
|  |  | dotted carbonate sometimes stringers, |  |  |  |  |  |  |  |  |  |
|  |  | hanging wall slowy increasing in |  |  |  |  |  |  |  |  |  |
|  |  | sericite |  |  |  |  |  |  |  |  |  |
|  |  | 55.85: 2 cm band with high py, 60 Vol-% |  |  |  |  |  |  |  |  |  |
|  |  | 59.70 - 61.20 : qtz-keratophyr |  |  |  | 50° |  |  |  |  |  |
|  |  | biotite-sericite-qtz-feldspar rock |  |  |  |  |  |  |  |  |  |
|  |  | 62.70 - 63.80 : amphibole as 0.5 to 2.0 cm lath |  |  |  |  |  |  |  |  |  |
|  |  | 63.80 - 64.20 : agglomerate |  |  |  |  |  |  |  |  |  |
|  |  | 64.60 - 64.90 : bombs of qtz |  |  |  | 67.30 m fault |  |  |  |  |  |
|  |  | 67.50 - 70.10 : qtz-keratophyr |  |  |  |  |  |  |  |  |  |
|  |  | garnet bearing sericite qtz-feldspar rock |  |  |  |  |  |  |  |  |  |
|  |  | wh., massive |  |  |  |  |  |  |  |  |  |
|  |  | 74.20 - 74.30 : qtz-keratophyr |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

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| From | To | Description BH-28 | DDH No. | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 74.40 | 78.90 | qtz-keratophyr |  |  | 60° |  |  |  |  |  |  |
|  |  | sericite - qtz - feldspar rock |  |  |  |  |  |  |  |  |  |
|  |  | wh, massive, extremely fine grained |  |  |  |  |  |  |  |  |  |
|  |  | lying part without any mineralization. |  |  |  |  |  |  |  |  |  |
|  |  | after first andesitic tuff stringer po, mt and |  |  |  |  |  |  |  |  |  |
|  |  | spotty py mineralization sometimes reaching |  |  |  |  |  |  |  |  |  |
|  |  | Good ore 40 Vol-% (77.45 - 77.60), 2 cm band |  |  |  |  |  |  |  |  |  |
|  |  | of py ore (78.80), 5 cm py ore 60 Vol-% (78.85 - 78.90) |  |  |  |  |  |  |  |  |  |
|  |  | normal mineralization remains under 2 Vol-% |  |  |  |  |  |  |  |  |  |
| high | A/C | 75.00 - 75.70: high altered andesitic tuff |  |  |  |  |  |  |  |  |  |
|  |  | carbonaceous biotite-chlorite schist |  |  |  |  |  |  |  |  |  |
|  |  | bgr. medium grained, widely |  |  |  |  |  |  |  |  |  |
|  |  | developt layering, homogeneous |  |  |  |  |  |  |  |  |  |
|  | A | 76.30 - 76.40: altered andesitic tuff |  |  |  |  |  |  |  |  |  |
|  |  | bio bear chlorite amphibolite |  |  |  |  |  |  |  |  |  |
|  |  | gr. medium and coarse grained, massive, |  |  |  |  |  |  |  |  |  |
|  |  | inhomogeneous |  |  |  |  |  |  |  |  |  |
| 78.90 | 93.60 | basalt section (flow) |  |  |  |  |  |  |  |  |  |
|  | A | 78.90 - 79.20: altered basalt |  |  |  |  |  |  |  |  |  |
|  |  | chlorite-amphibolite |  |  |  |  |  |  |  |  |  |
|  |  | gr, coarse grained, massive, some |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH - 28 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  | interlayers of massive py, mm - thick |  |  |  |  |  |  |  |  |  |  |
|  | C | 79.20 - 80.80: carbonaceous amphibolite |  |  |  |  |  |  |  |  |  |  |
|  |  | gr, medium grained, massive. |  |  |  |  |  |  |  |  |  |  |
|  |  | spotted carb. |  |  |  |  |  |  |  |  |  |  |
|  | A | 79.50 - 79.80: tuffaceous sequence |  |  | 45° |  |  |  |  |  |  |  |
|  |  | cm banded altered basalt |  |  |  |  |  |  |  |  |  |  |
|  |  | with qtz-Granophyric layers, |  |  |  |  |  |  |  |  |  |  |
|  |  | py mineralisation of 10 to 15 |  |  |  |  |  |  |  |  |  |  |
|  |  | Vol-% at 79.60 - 79.65 m |  |  |  |  |  |  |  |  |  |  |
|  |  | 80.80 - 91.40: slightly carbonaceous amphibole schist |  |  |  |  |  |  |  |  |  |  |
|  |  | gr, mainly fine grained, some interlayers |  |  |  |  |  |  |  |  |  |  |
| slight | C | medium grained plag. amphibolite, |  |  |  |  |  |  |  |  |  |  |
|  |  | homogeneous, well orientation, |  |  |  |  |  |  |  |  |  |  |
|  |  | irregular features of qtz and carb. |  |  |  |  |  |  |  |  |  |  |
|  |  | some spotted carb. |  |  |  |  |  |  |  |  |  |  |
|  |  | 91.40 - 93.60: altered and highly altered basalt flow |  |  |  |  |  |  |  | lying correlates well |  |  |  |
|  | A/C | carbonaceous biotite-chlorite rock to schist |  |  |  |  |  |  | with 147.00 - 149.00 BH 29 |  |  |  |
| increasing to high A/C |  | qtz to tr.gr, medium grained, massive to |  |  |  |  |  |  | hanging part correlates with high altered section |  |  |  |
|  |  | widely development of orientation, |  |  |  |  |  |  | 151.00 - 156.00 BH 29 |  |  |  |
|  |  | homogeneous, bio pseudomorph amphibole, |  |  |  |  |  |  |  |  |  |  |
|  |  | slowly increasing alteration towards hanging |  |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

| From | To | Description BH-28 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 93.60 | 96.27 | dacitic tuff or flow | | | 50° | | | | | | |
| | | biotite bearing sericite-chlorite schist/rock | | | | | | | | | |
| | | lightgn, fine grained, homogeneous, in places | | | | | | | | | |
| | | spotted bio. | | | | | | | | | |
| | | 95.15-95.22: band of translucent qtz | | | | | | | | | |
| 96.27 | 97.38 | Py ore | | | | | | | | | |
| 97.38 | 100.95 | dacitic tuff | | | | | | | | | |
| | | see above | | | | | | | | | |
| | | some disseminated and layery Py | | | | | | | | | |
| 100.95 | 120.72 | Py ore zone | | | | | | | | | |
| | | 117.50: rich sphalerite ore | | | | | | | | | |
| | A | 119.35-119.77: altered basalt | | | | | | | | | |
| | | bio bearing chlorite-amphibolite | | | | | | | | | |
| | | gn, medium grained, massive | | | | | | | | | |
| | | homogeneous, in places extremely | | | | | | | | | |
| | | rolled out, pisolithic texture | | | | | | | | | |
| 120.72 | 135.00 | basalt section, flow | | | | | | | | | |
| | | 120.72-121.95: carbonate bearing plagioclase amphibolite | | | | | | | | | |
| | | gn to grgn, medium grained, massive, | | | | | | | | | |
| | | typical pisolithic texture of amphibole, | | | | | | | | | |
| | | some spotted carbonate | | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

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| From | To | Description BH-28 | DDH No. | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 121.90 – 124.60 : basalt with Qtz-keratophyr | | | | | | | | | |
| | | mostly unaltered medium grained | | | | | | | | | |
| | | (pisolithic) basalt folded with | | | | | | section very typical with | | | |
| | | qtz-keratophyr with in places | | | | | | | BH 29 | | |
| | | (122.40 – 123.00) spotted py mineralization | | | | | | | | | |
| | | carbonate in cm to mm layers | | | | | | | | | |
| high A/C | | 122.00 – 122.15: highly altered basalt | | | | | | | | | |
| | | high carb. amphibole - biotite - chlorite schist | | | | | | | | | |
| | | 124.60 – 135.00 : slightly carb. plag amphibolite | | | | | | | | | |
| | | see 120.72 – 121.95 | | | | 129.20 – 130.00 m | | | | | |
| A/C | | 130.05 – 131.10: altered basalt | | | | | | | | | |
| | | high carbonaceous clorite - amphibolite | | | | | | | | | |
| | | gn, fine and medium grained, very | | | | | | | | | |
| | | inhomogeneous spotted carbonate, | | | | | | | | | |
| | | sometimes huge fuzzy bodys | | | | | | | | | |
| | | | | | | | | | | | |
| | | e.o. BH 135.00 m | | | | | | | | | |

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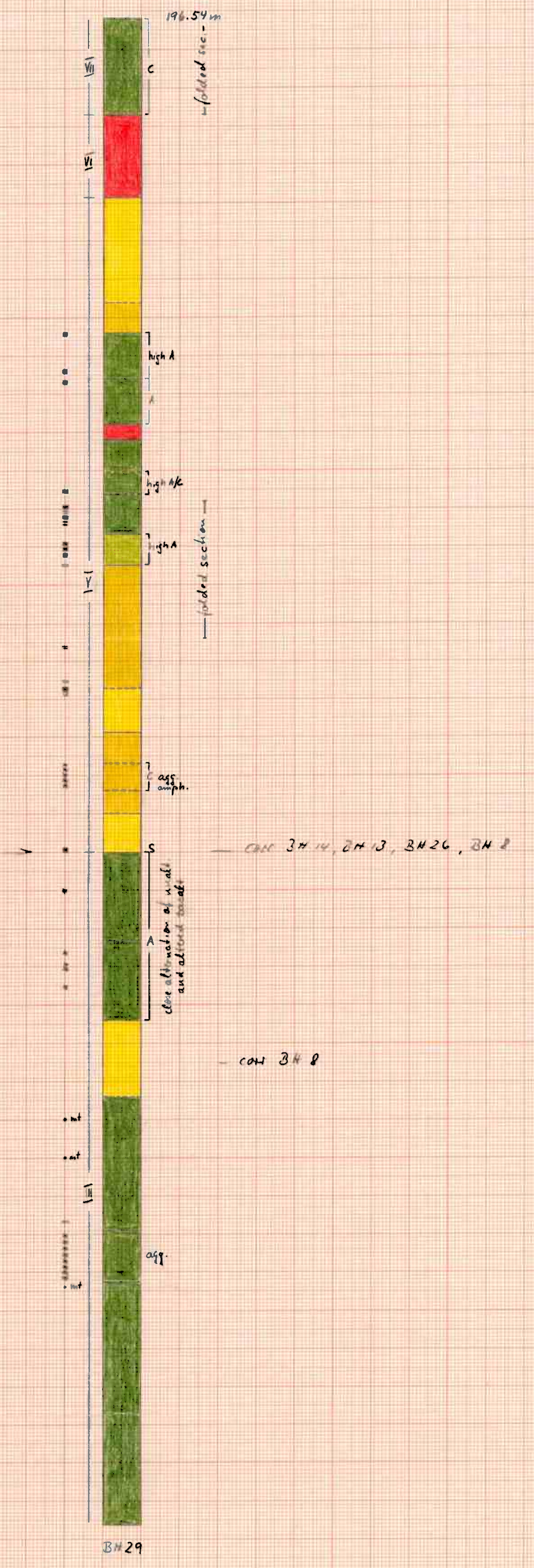

196.54 m
folded sec.
VII
C
VI
high A
A
high A/C
high A
V
folded section
agg. amph.
S
corr BH 14, BH 13, BH 26, BH 8
A
close alternation of unalt. and altered basalt
corr BH 8
mt
mt
III
agg.
mt
BH29

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

PAGE 1

| From | To | Description BH-29 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| | 19.00 | BH starts with section III | | | | | | | | | | |
| | | basalt flow | | | | | | | | | | |
| | | gr, fine grained schistose, med to slightly coarse | | | | | | | | | | |
| | | grained massive, spotted carb 15.50 – 18.50 m | | | | | | | | | | |
| | | pyroclastic intersections of dm thickness | | | | | | | | | | |
| 19.00 | 23.30 | plagioclase amphibolite | | | | | | | correlates with | | | |
| | | gr, med to slightly coarse grained | | | | | | | BH 10 sample 22 | | | |
| | | ellipsoidal amphiboles | | | | | | | | | | |
| 23.30 | 23.60 | carb amphibolite | | | | | | | | | | |
| | | gr, med crystalline, massive | | | | | | | | | | |
| 23.60 | 32.80 | biotite bearing amphibolite schist (flow) | | | 40° | | | | | | | |
| | | gr, fine grained, well layered, in | | | | | | | | | | |
| | | places cm bands of qtz-keratophyr with rare | | | | | | | | | | |
| | | spots of py interbedded, slightly carb. stringers, slightly alteration with biotite | | | | | | | | | | |
| 32.80 | 38.50 | basaltic agglomerate | | | | | | | sample 29/1 27.00 m | | | |
| | | bombs of translucent qtz and qtz keratophyr | | | | | | | | | | |
| | | surrounded by amphibolite matrix, med grained | | | | | | | | | | |
| | | needles of amphibole. | | | | | | | | | | |
| 38.50 | 41.90 | basalt flow | | | | | | | | | | |
| | | greenschist | | | | | | | | | | |
| | | gr, fine grained, laminated, | | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH 29 | DDH No. | Interval | | Assays | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | From | To | Cu | Mo | Pb | Zn | Au | Ag | |
| | | 38.50 – 41.50 : spots of mt 0.1 to 0.5 cm in size | | | | | | | | | | |
| 41.90 | 42.40 | basaltic tuff | | | | | | | | | | |
| | | slightly carbonaceous biotite bearing plag. amphibolite schist | | | | | | | | | | |
| | | gn to grgn, med grained, well layered, | | | | | | | | | | |
| | | bio at places pseudomorph amphibole | | | | | | | | | | |
| 42.40 | 56.10 | basalt flow (greenschist) | | | | | | | | | | |
| | | slightly carb. bio bearing amphibole schist | | | 46° | | | | | sample 29/2 | | 46.50m |
| | | gn, fine grained*, laminated, some irregular | | | | | | | | | | |
| | | qtz veining, homogeneous | | | | | | | | | | |
| | | *getting sometimes medium crystalline and slightly | | | | | | | | | | |
| | | higher in plagioclase | | | | | | | | | | |
| | | 47.90 – 49.60 : rare spots of mt | | | | | | | | | | |
| | | 49.10 – 49.50 : qtz-keratophyr interlayer | | | | | | | | | | |
| | | qtz-rich sericite-biotite rock/schist | | | | | | | | | | |
| | | gr. fine to med. grained massive | | | | | | | | | | |
| | | 51.60 – 54.70 : rare spots of mt | | | | | | | | | | |
| 56.10 | 66.15 | qtz-keratophyr flow | | | | | | | | sample 29/3 | | 64.90m |
| | | garnet-amphibole-qtz assemblage | | | | | | | | | | |
| | | gr. med. crystalline garnet and amphibole, amphibole | | | | | | | | | | |
| | | randomly orientated, fine needles of 0.1 to 0.3 cm | | | | | | | | | | |
| | | size, garnets in good balance but too in places increased, sometimes clusters of bio. | | | | | | | | | | |
| | | massive, mainly homogeneous | | | | | | | | | | |

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# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

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| From | To | Description BH 29 | DDH No. | Interval |  | Assays |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |  |
| 66.15 | 66.45 | dacitic tuff |  |  |  |  |  |  |  |  |  |  |
|  |  | carb. biotite-chlorite schist |  |  |  |  |  |  |  |  |  |  |
|  |  | gr.gn. fine grained, widely bedded, |  |  |  |  |  |  |  |  |  |  |
|  |  | in places needles of amphibole, clusters of bio, |  |  |  |  |  |  |  |  |  |  |
|  |  | carbonate as spotts and irregular veins |  |  |  |  |  |  |  |  |  |  |
| 66.45 | 76.60 | andesitic to basaltic tuff ([illegible] altered) |  |  |  |  |  |  |  | sample | 29/4 | 67.90 m |
|  |  | carbonaceous biotite-chlorite-amphibole schist |  |  | 45° |  |  |  |  |  |  |  |
|  | A | gr. medium to in places fine crystalline, well |  |  |  |  |  |  |  |  |  |  |
|  |  | banded, laminated, but homogeneous, |  |  |  |  |  |  |  |  |  |  |
|  |  | amphibole needles randomly orientated, |  |  |  |  |  |  |  |  |  |  |
|  |  | spots of carbonate in places veins, some bands |  |  |  |  |  |  |  |  |  |  |
|  |  | of coarse bio-chlorite mat interbedded, |  |  |  |  |  |  |  |  |  |  |
|  |  | to at places pseudomorph amphibole |  |  |  |  |  |  |  |  |  |  |
|  |  | 71.25 m: translucent qtz |  |  |  |  |  |  |  | con. 34 ? |  |  |
|  |  | 73.40 m: severals bombs of translucent qtz |  |  |  |  |  |  |  |  |  |  |
|  |  | 76.00 m: bomb trans qtz |  |  |  |  |  |  |  |  |  |  |
| 76.60 | 88.00 | highly altered basalt alternates with unaltered basalt |  |  |  |  |  |  |  |  |  |  |
|  |  | greenschist (carb. biotite-chlorite schist and amphibolites) |  |  |  |  |  |  |  | sample 29/21 | 77.60 m |  |
|  |  | gr, fine to coarse aggregates grained, light, in places well laminated, |  |  |  |  |  |  |  | sample 29/5 | 84.80 m |  |
|  | A | schistose, due to an alternation of altered and |  |  |  |  |  |  |  |  |  |  |
|  |  | unaltered portions, in places massive, mostly bedded |  |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH 29 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | bio pseudo amphibole often in 0.2 to 0.5 cm | | | | | | | | | | |
| | | crystals than randomly orientated, clusters, | | | | | | | | | | |
| | | spots of carb, in places cm layers of translucent qtz | | | | | | | | | | |
| | | Min: spots and needles of mt, some rare spots | | | | | | | | | | |
| | | of py | | | | | | | | | | |
| | | 83.40: qtz kera bomb | | | | | | | | | | |
| | | hanging wall close alternation of qtz keratophyr with | | | | | | | | | | |
| | | carb basalt (unaltered) transition zon 87.40 - 88.00 m | | | ← | translucent qtz | | | Chert | | 88.00 - 88.50 m | |
| 88.50 | 93.05 | qtz keratophyr (silicified) (tuff - lapilli → agg) | | | | with spots of py | | | ≤ 1 vol. % | | | |
| | | biotite-chlorite-qtz schist | | | | | | | | | | |
| | | gr, disharmonic folding, small scale zick zack, | | | | | | | see mat | | 13/29 and 14/ | |
| | | marked light-dark banding, intersections of | | | | | | | | | | |
| | | agglomeratic habit, sometimes cm interlayers | | | | | | | | | | |
| | | of more basaltic (chlorite - amphibole) mat. sometimes good altered | | | | | | | | | | |
| | | footwall extremely silicified | | | | | | | | | | |
| | | Min: spots of py, in places stringer- ot vein like | | | | | | | | | | |
| | | features | | | | | | | | | | |
| 93.05 | 95.90 | dacitic tuff (lapilli) | | | 45° | | | | | sample | 29/6 | 94.05 m |
| | | qtz-rich biotite-chlorite schist | | | | | | | | | | |
| | | light gr. fine grained with spotted bio, slightly | | | | | | | | | | |
| | | carbonaceous | | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 5

| From | To | Description BH 29 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95.90 | 99.50 | dacitic to andesitic agglomerate | | | | | | | | sample | 29/7 | 97.75 m |
| | | carb. to high carb. amphibole chlorite than biotite-chlorite schist | | | | | | | | | | |
| | | light gn, coarse to fine grained, close association | | | | | | | | | | |
| | c | of coarse amphibole - chlorite with fine grained | | | | | | | | | | |
| | | chlorite - qtz, often as accumulations, | | | | | | | | | | |
| | | well bedded, very inhomogeneous, Min: some giant spots of py | | | | | | | | | | |
| 99.50 | 103.90 | dacitic tuff (may be even qtz keratophyric) | | | | | | | | | | |
| | | qtz-rich sericite - biotite - chlorite schist / rock | | | | | | | | | | |
| | | light gn, fine grained, laminated, lapilli | | | | | | | | | | |
| | | feature in places, | | | | | | | | | | |
| 103.90 | 109.50 | qtz - keratophyr tuff | | | 45° | | | | | | | |
| | | biotite - chlorite - qtz schist | | | | | | | | | | |
| | | gr, fine grained, lots of bio well orientated, | | | | | | | | | | |
| | | homogeneous | | | | | | | | | | |
| 109.50 | 125.44 | dacitic tuff with keratophyr interbeds | | | 45° | | | | | | | |
| | | biotite - chlorite schist / rock | | | | | | | | | | |
| | | light gn, fine grained, laminated, homogeneous | | | 116.08<br>15° | | | | ↓ | | | |
| | | 109.85 m: po dissemination 2 to 3 Vol-% | | | | | | | | | | |
| | | 110.00 m: py | | | | | | | folded section | | | |
| | | 111.40 - 111.70: qtz - keratophyr | | | | | | | | | | |
| | | 116.30 - 116.70: translucent qtz | | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 6

| From | To | Description BH 29 | DDH No. | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 125.44 | 129.80 | andesitic tuff | | | | | | | | | | |
| | wght | carb. bearing biotite ± amphibole-chlorite schist | | | | | | | | | | |
| | | gn to lightgn, medium to coarse grained, well | | | | | | | | folded section | | |
| | | layered, disharmonic folding small scale | | | | | | | | to about 140.00m | | |
| | | bio pseudomorph amphibole, Min: rare spots of py | | | | | | | | | | |
| | | 126.20 - 126.30: qtz keratophyr | | | | | | | | | | |
| | | <1 Vol.-% po mineralization | | | | | | | | | | |
| | | diss. py: 127.60 - 127.65, 128.20 - 128.22, 128.30 - 128.40 | | | | | | | | | | |
| 129.80 | 141.85 | basalt section (flows interlayered qtz keratophyrs) | | | 129.80<br>15° | | | | sample 29/8 130.00m | | | |
| | | unaltered greenstones, amphibolites | | | | | | | sample 29/9 134.30m | | | |
| | | gn, fine grained, massive, + in places medium | | | | | | | sample 29/11 139.60m | | | |
| | | to even coarse variations | | | | | | | ~~sample~~ [illegible] | | | |
| | | 131.80 - 133.88: qtz keratophyr interbeds | | | | | | | | | | |
| | | diss py: 132.80 - 133.00, 133.20 - 133.25, 133.40 - 133.50, 135.95 - 136.05 | | | | | | | | | | |
| | high Alt→ | 134.95 - 137.90: highly altered basalt | | | | | | | sample 29/10 137.40m | | | |
| | | high carbonaceous ± amphibole biotite - chlorite ~~schist~~ rock | | | | | | | | | | |
| | | gn, mostly coarse grained, massive but | | | | | | | | | | |
| | | inhomogeneous, spotted carbonate in | | | | | | | | | | |
| | | places giant spots, | | | | | | | | | | |
| | | 135.95 - 136.00: some spotty py | | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 7

| From | To | Description BH 29 | DDH No. | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 141.85 | 143.80 | Pyrite-ore zone | | | | | | | | | | |
| 143.80 | 149.90 | greenstone to slightly greenschist (basalt vol) slightly altered biotite-chlorite-amphibolite | | | | | | | | | | |
| | | gn, medium crystalline, massive mostly, same | | | | | sample | 29/12 | | 144.50 m | | |
| | | as on footwall of ore zone, ophitic texture with | | | | | | | | | | |
| | | fine needles of actinolite randomly orientated, biotite as accumulated (mm) and sperulite, | | | | | | | | | | |
| | A | carbonate occurs as spotted at least 50cm from ore, | | | | | | | | | | |
| | | from sharp ore zone upsection increasing actinolite and | | | | | | | | | | |
| | | decreasing biotite and chlorite ~~[illegible]~~, biotite pseudomorph | | | | | | | | | | |
| | | to actinolite (wall rock act bearing bio-chlo schist), | | | | | | | | | | |
| | high A → | 144.55 - 145.00. biotite-chlorite-actinolite schist also | | 149.60 - | 149.80 | | | | | | | |
| | | 149.80 - 149.90: py dissemination in qtz keratophyr | | 5 Vol.-% py | | | | | | | | |
| 149.90 | 156.20 | biotite-chlorite schist (high altered basalt flow) | | | | | | | | | | |
| | high A | gn, medium to coarse grained, biotite blastese as accumulates ~~chunder~~ clusters, | | | | | | | | | | |
| | | porphyritic texture, ~~was~~ homogeneous, bio. pseudomorph amphibole | | | | | | | | | | |
| | | qtz keratophyr with dissem. py involved 151.80-151.90, 156.10-156.15 | | | | | sample | 29/13 | | 152.90 m | | |
| 159.90 | 173.75 | ~~[illegible]~~ qtz keratophyr tuff or flow (sericite-biotite-qtz rock) | | | | | | | | | | |
| | | wh to light greenish, fine to medium cryst, | | | | | sample | 29/22 | | 157.90 m | | |
| | | biotite flakes and clusters randomly orientated, | | | | | sample | 29/14 | | 162.50 | | |
| | | carbonate sometimes as fine lamina, 80° cax, biotite only until 159.90 | | | | | | | | | | |
| | | rare spots of py | | | | | | | | | | |
| | | one section of biotite-sericite schist interbedded (intermediate tuff) | | | | | | | | | | |
| | | | | 159.90(!) | | | | | | | | |

156.20 - 159.90 m: high altered andesitic to dacitic tuff
qtz-rich biotite-chlorite schist
light gn, coarse grained, well layered, homogeneous

high A

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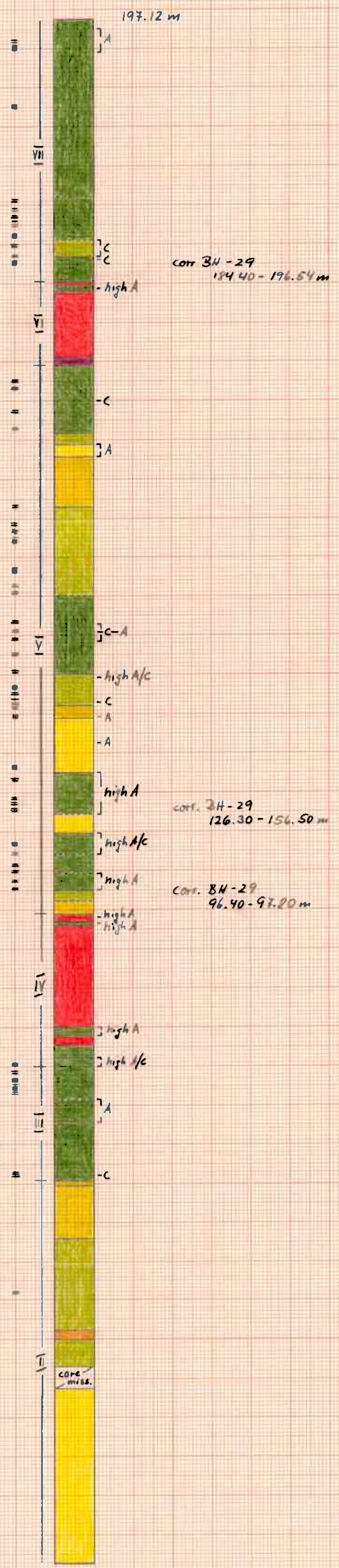
# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

| From | To | Description BH 29 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ~~sample~~ [illegible] | | | ~~[illegible] m~~ |
| | | 159.90 - 165.00 : extremely fine grained, massiv | | | | | | sample 29/16 | | | 169.20 m |
| | | actinolite needles of cm size ; 168.15 - 168.25, 168.95 - 169.30, 159.80 - 159.90, | | | | | | sample 29/17 | | | 172.89 m |
| 173.75 | 184.40 | Py ore zone | | | | | | sample 29/18 | | | 184.80 m |
| | | at hanging wall interfolded biotite-actinolite schist | | | | | | sample 29/19 | | | 190.05 m |
| | | as cm to dm layers, gr, medium crystalline, | | | | | | sample 29/20 | | | 194.20 m |
| | | needles of actinolite often not oriented, some | | | | | | | | | |
| | | carbonate | | | | | | | | | |
| 184.40 | 196.54 | carbonaceous to partly high carbonaceous greenstone / schist / basalt (flow) | | | | | | | | | |
| | | gr, mostly fine grained, spotted to stringy carbonate, | | | | | | | | | |
| | | & in places ophitic texture, needles of | | | | | | | | | |
| | 4 | mm actinolite randomly orientated in medium grained variations, | | | | | | sample 29/23 | | | 196.30 m |
| | | folded section, intersected twice same mat. | | | | | | | | | |
| | | | | | | | | | | | |
| | | a.o. BH 196.54 | | | | | | | | | |


197.12 m
A
C
C
corr BH-29
184.40 - 196.54 m
high A
VII
VI
C
A
C-A
V
high A/C
C
A
A
high A
corr. BH-29
126.30 - 156.50 m
high A/C
high A
corr. BH-29
96.40 - 97.20 m
high A
high A
IV
high A
high A/C
A
III
C
II
core miss.

BH-30g

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

| From | To | Description 34- 30 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 49.05 | section II | | | | | | | | |
| | | start - 22.50: qtz - keratophyr | | | | | | | | |
| | | slightly carb biotite - amphibole - qtz - fspar rock | | | | | | | | |
| | | gr. fine grained with medium sized | | | | | | | | |
| | | lath of amphibole, randomly orientated, | | | | | | | | |
| | | crudely bedded, homogeneous, | | | | | | | | |
| 22.50 | 25.40 | core missing | | | | | | | | |
| | | 25.40 - 28.80 : andesitic tuff (may be dacitic) | | 60° | | | | | | |
| | | qtz - fspar - sericite - amphibole schist | | | | | | | | |
| | | lightgr, fine grained, porphyric | | | | | | | | |
| | | amphibole with max. 2.5 cm size | | | | | | | | |
| | | randomly orientated, massive to | | | | | | | | |
| | | slightly schistose, homogeneous | | | | | | | | |
| | | 28.80 - 30.00 . translucent qtz | | | | | | | | |
| | | 30.00 - 34.10 : andesitic tuff | | | | | | | | |
| | | see : 25.40 - 28.80 | | | | | | | | |
| | | 34.10 - 34.70 : translucent qtz | | | | | | | | |
| | | 34.70 - 41.65 : andesitic tuff | | | | | | | | |
| | | see: 25.40 - 28.80 | | | | | | | | |
| | | 41.65 - 48.40 : dacitic to andesitic tuff | | 30° | | | | | | |
| | | garnet bear. bio. - sericite - chlorite schist | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH- 30 ℰ | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | gn to lightgn, fine grained, homogeneous, | | | | | | | | |
| | | at hanging some huge laths of amphibole | | | | | | | | |
| | | (more dark greenish than the normal | | | | | | | | |
| | | dacites, may result from higher chlorite | | | | | | | | |
| | | content) | | | | | | | | |
| | | 48.40 - 49.05 : dacitic to andesitic tuff | | | 45° | | | | | |
| | | qtz-fspar sericite - amphibole schist | | | | | | | | |
| | | light gn to grgn, fine to slightly medium | | | | | | | | |
| | | grained, laminated, pisolithic amphibole, | | | | | | | | |
| | | some carbonate | | | | | | | | |
| 49.05 | 63.66 | basalt section (III) | | | 45° | | | | | |
| | | 49.05 - 56.60: greenschist | | | 56.40 | ∢ | | | | |
| | | gn, mainly fine grained but also medium, | | | | | | | | |
| | | homogeneous, | | | | | | | | |
| | | 50.00 - 50.40 : close alternation of basalt with | | | | | | | | |
| | ⊆ | qtz-keratophyr | | | | | | | | |
| | | 50.05 : diss of py, 20 Vol-% | | | | | | | | |
| | | 50.25 - 50.30 : translucent qtz | | | | | | | | |
| | | 56.60 - 59.70 : slightly altered to alt. basalt | | | 45° to 30° | | | | | |
| | A | carb bear. biotite - chlorite - amphibole schist | | | | | | | | |
| | | gn to bign, fine to slightly medium grained, | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 30 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | homogeneous, bio pseudomorph | | | | | | | | |
| | | amphibole, some spotted carb. | | | | | | | | |
| | | //// | | | | | | | | |
| | | 59.70 - 63.66 : slightly altered basalt | | | | | | | | |
| | | carb. bear. plag.-chlorite-amphibolite | | | | | | | | |
| | | grgn. medium grained, homogeneous, | | | | | | | | |
| | | laminated, pisolithic to ellipsoidal | | | | | | | | |
| | | amphibole, several interlayers of | | | | | | | | |
| | | qtz-keratophyr often with py min | | | | | | | | |
| | | : 61.00 - 61.10 (py diss), 61.20 - 61.25, 61.60 - 61.70 (py diss 30 Vol.-%), | | | | | | | | |
| | | 62.25-62.27 py ore, 63.23-63.27 (high carb.), 63.40 - 63.55 some | | | | | | | | |
| | | minor py diss | | | | | | | | |
| 63.66 | 82.95 | ore zone IV | | | | | | | | |
| | | 63.66 - 63.75: py ore | | | | | | | | |
| | | 63.75 - 64.80 : high altered basalt | | | | | | | | |
| high A/C | | carb. biotite- chlorite schist | | | | | | | | |
| | | brgn. coarse grained, inhomogeneous, | | | | | | | | |
| | | spotted carb. | | | | | | | | |
| | | 64.02: diss py ore | | | | | | | | |
| | | //// | | | | | | | | |
| | | 64.80 - 65.26 : altered to slightly altered basalt | | | | | | | | |
| | A | chlorite-amphibole schist | | | | | | | | |
| | | gn. finegrained with porphyric amphibole, | | | | | | | | |

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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| From | To | Description BH - 30ß | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 65.26 - 66.44: slightly altered basalt flow | | | | | | | | |
| | | slightly carb. plag amphibole rock | | | | | | | | |
| | | grgn, medium grained, massive, | | | | | | | | |
| | | pisolithic amphibole, decomposition | | | | | | | | |
| | | of plag + amphibole, indiff. colour | | | | | | | | |
| | | 66.44 - 67.80: Py ore | | | | | | | | |
| | | 67.80 - 68.97: high altered basalt | | | | | | | | |
| | high A | biotite - chlorite schist | | | | | | | | |
| | | brgn, coarse grained, inhomogeneous. | | | | | | | | |
| | | 68.97 - 81.95: Py ore | | | | | | | | |
| | | 8195 - 82.09: mixed dacitic and basaltic tuff | | | | | | | | |
| | high A | high alteration to sericite-chlorite and | | | | | | | | |
| | | biotite-chlorite schists | | | | | | | | |
| | | 82.09 - 82.24: Py ore | | | | | | | | |
| | | 8224 - 82.54: high altered basalt | | | | | | | | |
| | high A | see 67.80 - 68.97 m | | | | | | | | |
| | | 82.54 - 82.95: Py ore | | | | | | | | |
| 82.95 | | section V | | | | | | | | |
| | | 82.95 - 8480: dacitic tuff | | | | | | | | |
| | | qtz-fspar chlorite - sericite schist | | | | | | | | |
| | | light gn, fine grained, inhomogeneous, | | | | | | | | |
| | | sometimes lapilli texture, some biotite | | | | | | | | |
| | | occasionally. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 30 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 84.80 - 86.30 : andesitic to basaltic tuff | | | | | | | | |
| | | carb bear. qtz-fspar-bio-chl.-amphibole schist | | | | | | | corr. | BH-29 |
| | | grgn, inhomogeneous, coarse amphibole | | | | | | | 96.40 | - 97.80 |
| | | laths randomly orientated even mild, | | | | | | | | |
| | | some py dissemination from 85.12 - 85.44 | | | | | | | | |
| | | 86.30 - 86.90 : qtz-keratophyr | | | 45° | | | | | |
| | | biotite bear. qtz-fspar rock | | | | | | | | |
| | | gr, fine grained, laminated, homogeneous, | | | | | | | | |
| | | some ex. mt. | | | | | | | | |
| | | 86.90 - 88.30 : high altered basaltic tuff | | | | | | | | |
| high + | | carb. bear. biotite-chlorite schist | | | | | | | | |
| | | bgn, medium grained, crudely layred, | | | | | | | | |
| | | homogeneous, some cm to mm interlayers | | | | | | | | |
| | | of qtz-keratophyr with or without | | | | | | | | |
| | | diss. py : 87.30, 87.35, 87.50, | | | | | | | | |
| | | 88.30 - 90.70 : greenschist | | | | | | | | |
| | | gn, fine grained, homogeneous, | | | | | | | | |
| | | irregular qtz-carbonate veining, | | | | | | | | |
| | | occasional layred, sporadically | | | | | | | | |
| | | interlayers of qtz-keratophyr but | | | | | | | | |
| | | without py : 88.30 - 88.45, 89.40, | | | | | | | | |

Hamar-Trykk A/S

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 30 | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|

m
90.70 - 93.50 : high altered basaltic tuff 30° - 45°

high A K

carbonaceous biotite - chlorite schist

bign to grgn, medium grained laminated,

homogeneous.

90.90 - 91.10: close alternation of basalt with

qtz-keratophyr

disseminated py min. of < 5Vol %

within qtz-kera bands sometimes

spots of py within more basaltic

mat

92.25 - 92.75: qtz-keratophyr

sericite qtz-fespar rock

92.65: cm band of diss. py, 10 Vol-%

top 101.10

corr. BH-29
126.30 -
156.50m

93.50 - 95.90: qtz-keratophyr 60°

carb. bear. biotite - qtz - fspar rock

white with bi spots, fine grained, spotted biotite,

homogeneous, varying biotite amount in

places barren in bio., biotite clots randomly

orientated, hanging proportion dacitic in composition.

m
95.90 - 101.10 : high altered basalt

high A

carb. bear. sericite - biotite - chlorite schist

Hamar-Trykk A/S

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| | | | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| From | To | Description BH - 30 G | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | sion, medium grained to slightly coarse | | | | | | | | |
| | | grained, homogueous, biotite as pseudomorphs | | | | | | | | |
| | | to amphibole, sometimes amphibole needles | | | | | | | | |
| | | still undecomposed, randomly orientated. | | | | | | | | |
| | | (material looks the same like 90.70 - 93.50) | | | | | | | | |
| | | 96.37 - 96.40: translucent qtz | | | | | | | | |
| | | 96.60 - 96.75: qtz-keratophyr | | | | | | | | |
| | | cm band of good py ore | | | | | | | | |
| | | 96.90 - 97.40: dacitic tuff | | | | | | | | |
| | | qtz-fspar-biotite-sericite schist | | | | | | | | |
| | | 97.60 - 98.15: qtz-keratophyr | | | | | | | | |
| | | some disseminated py arranged | | | | | | | | |
| | | in lamia | | | | | | | | |
| | | 100.00 - 100.30: translucent qtz | | | | | | | | |
| | | 101.10 - 108.15: qtz-keratophyr | | 60° | | | | | | |
| | | biotite-sericite-qtz-fspar rock | | | | | | | | |
| | | whitegr., fine grained, massive and layered, | | | | | | | | |
| | | homogueous, py disseminations within | | | | | | | | |
| | | cm band: 102.30. | | | | | | | | |
| | | 104.85 - 105.15: altered basalt | | | | | | | | |
| | A | biotite-chlorite amphibolite | | | | | | | | |
| | | cm interlayers of disseminated py | | | | | | | | |

Tverrfjellet ● **DIAMOND DRILL LOG** ●

FOLLDAL VERK A/S

| From | To | Description BH-30g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | within qtz-keratophyr, 15 Vol-% | | | | | | | | |
| | A | 105.40 – 105.50: see above | | | | | | | | |
| | | 107.00 – 107.40: dacitic tuff | | | | | | | | |
| | | qtz-fspar-biotite-sericite schist | | | | | | | | |
| | | 108.15 – 109.85: altered dacitic to andesitic tuff | | | | | | | | |
| | A/C | carbonaceous qtz-fspar-biotite-sericite schist | | | | | | | | |
| | | light gn, medium grained, homogeneous, | | | | | | | | |
| | | biotite pseudomorph amphibole, spotted | | | | | | | | |
| | | carb., well layered | | | | | | | | |
| | | 108.15 – 108.40: altered basalt | | | | | | | | |
| | | see 104.85 – 105.15 | | | | | | | | |
| | | interlayers of qtz-keratophyr | | | | | | | | |
| | | high in py, 60 Vol-% | | | | | | | | |
| | | 108.54 – 108.76: " | | | | | | | | |
| | | 109.54 – 109.85: qtz-keratophyr | | | | | | | | |
| | | 109.85 – 113.80: andesitic volc | | 45° | | | | | | |
| C<br>109.85 – 110.40 | | carb. bear. plagioclase-amphibole rock | | | | | | | | |
| | high A/C<br>130.75–<br>131.00m | gr-gn, medium grained, homogeneous, | | | | | | | | |
| | | crudely layered, pisolithic amphibole | | | | | | | | |
| | | sometime ellipsoidal, not always | | | | | | | | |
| | | orientated. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 30 E | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 109.90 - 109.95: qtz-keratophyre | | | | | | | | |
| | | with high py, 50 Vol.-% | | | | | | | | |
| | | 110.30 - 110.40: qtz-keratophyre | | | | | | | | |
| | | high carb. qtz-fspar-rock | | | | | | | | |
| | | with stringey cy min | | | | | | | | |
| | | 110.60 - 110.75: qtz-keratophyre | | | | | | | | |
| | | with py, cy ore | | | | | | | | |
| | | 111.60 - 111.75: qtz-keratophyre | | | | | | | | |
| | | 112.40 - 112.70: basalt and qtz-kera | | | | | | | | |
| | | close alternation of basalt | | | | | | | | |
| | | and qtz-kera. extremely | | | | | | | | |
| | | small scale folding, | | | | | | | | |
| | | stringey and spotty py and | | | | | | | | |
| | basalt | cy min., 10 Vol.-% | | | | | | | | |
| | to 123.66 | 113.80 - 114.90 : greenschist | | 75° | | | | | | |
| | | amphibolite | | | | | | | | |
| | | gr, extr. fine to fine grained, homogeneous | | | | | | | | |
| | | some spotted carb. | | | | | | | | |
| | | 11440 - 11490: bands of translucent qtz | | | | | | | | |
| | | 114.90 - 123.66 : slightly altered basalt flow | | | | | | | | |
| | | slightly carb. chlorite-amphibolite | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 30g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | gr, medium grained, evidently schistose, | | | 45° | | | | | |
| 118.00 – 120.00 | ⊆ | homogeneous, ellipsoidal amphibole | | | | | | | | |
| | ≠ | and chlorite, always orientated, | | | | | | | | |
| 119.50 – 119.75 m | | some spots of carb as well as irregular | | | | | | | | |
| | | carb veining. interlayered some dm sections of greenst | | | | | | | | |
| | | 116.30 – 116.35: qtz-keratophyr | | | | | | | | |
| | | 118.40 – 118.50: translucent qtz | | | | | | | | |
| | | 120.66 – 120.75: ″ | | | | | | | | |
| | | 119.50 – 119.60: qtz-keratophyr | | | | | | | | |
| | | some dss. of py arranged in | | | | | | | | |
| | | mm layers | | | | | | | | |
| | | 123.66 – 135.10: slightly altered andesitic to dacitic volc. | | | | | | | | |
| | | carb.bear. sericite-chlorite-amphibole rock | | | | | | | | |
| | | light gr, fine grained, porphyric texture, | | | | | | | | |
| | | needles of amphibole, max. 1.0 cm size, randomly | | | | | | | | |
| | | orientated, embedded in a matrix of fine | | | | | | | | |
| | | sericite and chlorite, well layered, homogeneous, more dacitic at hanging | | | | | | | | |
| | | 124.30 – 124.90: qtz-keratophyr | | | | | | | | |
| | | biotite-qtz-fspar rock | | | | | | | | |
| | | 125.18 – 125.29: close alternation of andesite and | | | | | | | | |
| | | qtz-kera., some minor py dss. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 30 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 127.30 - 127.35: qtz-keratophyr | | | | | | | | |
| | | lamina of massive py, | | | | | | | | |
| | | total ore about 40 Vol-% | | | | | | | | |
| | | 131.50: bomb of qtz-kera. | | | | | | | | |
| | | 131.70 - 131.80: translucent qtz | | | | | | | | |
| | | 132.00: bomb of qtz-kera | | | | | | | | |
| | | 132.06: " , some diss py | | | | | | | | |
| | | 132.15 - 132.26: qtz-keratophyr | | | | | | | | |
| | | 133.30 - 133.45: " | | | | | | | | |
| | | 135.10 - 135.95: qtz-keratophyr | | | | | | | | |
| | | qtz-fspar rock | | | | | | | | |
| | | some layers of py ore | | | | | | | | |
| | | 135.95 - 141.50: dacitic tuff | | | | | | | | |
| | | qtz-fspar-amphibole-sericite schist | | | | | | | | |
| | | light gn, fine to medium grained, very | | | | | | | | |
| | | inhomogeneous, varying composition, | | | | | | | | |
| | | amphibole mainly as large laths | | | | | | | | |
| | | randomly orientated | | | | | | | | |
| | | 141.50 - 143.00: qtz-keratophyr | | | | | | | | |
| | A | biotite-chlorite-qtz-fspar rock | | | | | | | | |
| | | white gr, fine grained with clots of bio and | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH- 30g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | chlorite, bio. pseudomorph amphibole. | | | | | | | | |
| | | laminated | | | | | | | | |
| | | 143.00 – 143.70 : high altered basalt | | | | | | | | |
| | high t | carb. bear. chlorite - biotite schist | | | | | | | | |
| | | gnbr, coarse grained, inhomogeneous, | | | | | | | | |
| | | some lapilli of qtz-keratophyre, | | | | | | | | |
| | | interlayer of qtz-kera with diss. | | | | | | | | |
| | | py | | | | | | | | |
| | | 143.70 – 144.60 : slightly altered andesitic to dacitic volc. | | | | | | | | |
| | | see. 123.66 – 135.10 m | | | | | | | | |
| | | 144.60 – 153.11 : slightly altered basalt | | | | | | | | |
| | | sericite - chlorite - amphibolite | | | | | | | | |
| | ≤ 148.50 | gn, fine and medium grained, alternation | | | | | | | | |
| | | of greenschist and medium grained | | | | | | | | |
| | | amphibolite, mainly pisolithic amphibole, | | | | | | | | |
| | | sometimes porphyric, some irregular | | | | | | | | |
| | | qtz-carb. veining, sometimes spots of | | | | | | | | |
| | | carb. | | | | | | | | |
| | | 145.25 - 145.40 : qtz - keratophyre | | | | | | | | |
| | | disseminated py, 30 Vol-% | | | | | | | | |
| | | 147.49 – 147.90 : qtz - keratophyre | | | | | | | | |
| | | some finest diss of py and po | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-30 g | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 150.20 - 150.22 : qtz-keratophyr | | | | | | | | |
| | | diss py, 20 Vol.-% | | | | | | | | |
| | | 151.00 - 151.55 : qtz-keratophyr | | | | | | | | |
| | | rare spots of py | | | | | | | | |
| 153.11 | 163.95 | ore zone (VI) | | | | | | | | |
| | | 153.11 - 154.10 : banded py - net ore | | 0-45° | | | | | | |
| | | some irregular features of cy | | | | | | | | |
| | | 154.10 - 162.60 : py ore | | | | | | | | |
| | | 162.60 - 163.15 : barren interlayer | | | | | | | | |
| | | 162.60 - 162.90 : high altered basalt | | | | | | | | |
| | high A | bio-chlorite schist with | | | | | | | | |
| | | some interlayers of qtz-kera | | | | | | | | |
| | | disseminated py | | | | | | | | |
| | | 162.90 - 163.15 : qtz-kera to translucent qtz | | | | | | | | |
| | | some finest diss of py | | | | | | | | |
| | | 163.15 - 163.95 : py ore | | | | | | | | |
| 163.95 | | section VII | | | | | | | | |
| | | 163.95 - 167.00 : slightly altered basalt | | 30° | to CA | | | | corr. BH-29 | |
| sporadic A | | carb bear. plagioclase-chlorite-amphibolite | | | | | | | | |
| | ≤<br>166.54 - 166.80 m | grn, medium grained, inhomogeneous, | | | | | | | | |
| | | crudely layered, pisolithic amphibole | | | | | | | | |

# DIAMOND DRILL LOG

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Description BH-30 g

| From | To | Description | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 166.23 - 166.54: mixed basalt and qtz-kera as well as close alternation of. high py content as diss. mainly restricted to the more felsic layers, total amount 20 Vol-% | | | | | | | | |
| | | 167.00 - 169.10: andesitic volcanic | | | | | | | | |
| | ⊆ | carbonaceous qtz-fspar-chlorite-amphibole rock grgn, medium grained, inhomogeneous, crudely bedded, poikilitic amphibole, spotted carb. | | | | | | | | |
| | | 167.00 - 167.15: qtz-keratophyr hanging border with massive py | | | | | | | | |
| | | 168.60 - 168.80: Qtz-keratophyr | | | | | | | | |
| | | 169.10 - 174.80: slightly altered basalt see: 163.95 - 167.00 m, sometimes porphyric texture | | | | | | | | |
| | | 169.54 - 169.66: qtz-keratophyr diss. py, 10 Vol-% | | | | | | | | |
| | | 171.10: " | | | | | | | | |
| | | 171.62 and 171.65: " | | | | | | | | |

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# DIAMOND DRILL LOG

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BH-30 G

| From | To | Description | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|

172.00 : "

173.10 : "

174.07 - 174.15 : "

m
174.80 - 197.12 : Greenschist
amphibolite

70°
later 45°

gr. fine grained, homogeneous, some
irregular qtz-carb. veining.

185.00 - 186.20 small scale [illegible]

186.20 - 187.95 : py ore
after 187.95 more medium grained
with mm and cm interlayers of qtz-
keratophyr often mineralized.

A
193.00 - 196.00
close alternation of slightly altered and
not altered basalt

193.60 - 193.70 : qtz-keratophyr
diss. py, 10 Vol.-%

194.50 - 194.60 : "

a.o. BH. 197.12 m

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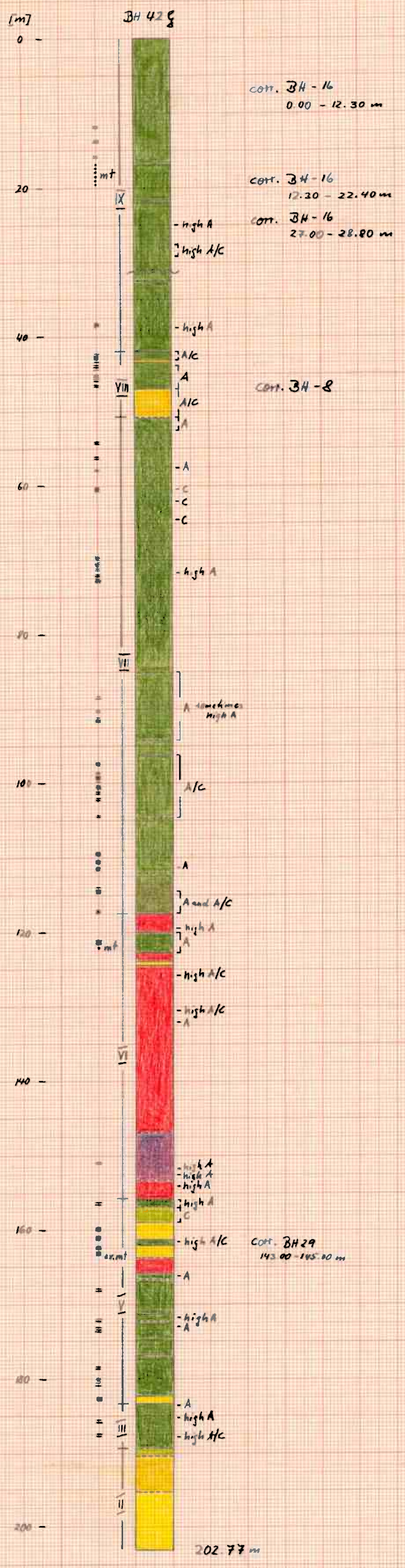
Chartwell



Aare Narke - Hydro

21 549

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

PAGE 1

| From | To | Description BH - 429 | DDH No. | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16.45 | basaltic tuff sequence<br>① slightly carb. plagioclase amphibole schist and ② greenschist<br>due to an alternation of medium to slightly coarse<br>basaltic tuff, well layered, with fine grained<br>greenschist, always sharp boundaries, an layers of qtz-Keratophyr interbedded<br>① gn, medium to slightly coarse, in places porphyric<br>amphibole but normally equal grained, mainly<br>ellipsoidal amphibole, well orientated to layering<br>an alternation of amphibole-rich bands with<br>plag dominant layers rich in carbonate, in places<br>an bands of altered mat (sio - Dolo assemblage)<br>② gn, fine grained to slightly medium, irregular<br>qtz-carbonate layers, prolific amphibole<br>12.55: qtz-Keratophyr<br>13.65: "<br>15.40: "<br>16.50 - 19.70: spots of mt very rarely, size between<br>0.1 and 0.2 cm | | | 45° | | | | | good correlation with BH 16 upper section | |
| 16.45 | 21.55 | basalt section interlayers of garnet amphibole plag rock<br>16.45 - 21.55: greenschist (amphibolite)<br>gn, fine grained, homogeneous | | | 60° | | | | | | |

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH-42g | DDH No. | Interval |  | Assays |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |  |
|  |  | 17.00 – 21.55: cm to dm alternation with |  |  |  |  |  |  |  |  |  |  |
|  |  | garnet amphibole qtz-fspar rock (keratophyric) |  |  |  |  |  |  |  |  |  |  |
|  |  | fgr to even gr, crudely orientated |  |  |  |  |  |  |  |  |  |  |
|  |  | pisolithic amphiboles, crudely layered, |  |  |  |  |  |  |  |  |  |  |
|  |  | main concentration of garnet rock |  |  |  |  |  |  |  |  |  |  |
|  |  | between 20.75 and 21.15 m |  |  |  |  |  |  |  |  |  |  |
| 21.55 | 32.30 | basalt flow (sporadically altered) |  |  |  |  |  |  |  |  |  |  |
| sporadically<br>A |  | carb. bearing amphibolite, greenschist |  |  |  |  |  |  |  |  |  |  |
|  |  | gr, fine grained, mainly homogeneous, but in |  |  |  |  |  |  |  |  |  |  |
|  |  | altered zones more medium to even coarse grained |  |  |  |  |  |  |  |  |  |  |
|  |  | and inhomogeneous, hve sufficient spotted carb. |  |  |  |  |  |  |  |  |  |  |
|  |  | 24.10 – 25.20: highly altered basalt |  |  |  |  |  |  |  |  | correlation with |  |  |
| high A / C |  | high carb. bio-chlorite schist |  |  |  |  |  |  |  | BH 16 | 27.00 - 28.80m |  |
| C |  |  |  |  | 29.35-<br>31.70 | folding and small faulting zone |  |  |  | ↑ |  |  |
| from 27.70 | to 29.10 |  |  |  |  |  |  |  |  |  |  |  |
| 32.30 | 41.85 | basalt flow |  |  | 60° |  |  |  |  |  |  |  |
|  |  | greenstone to greenschist (amphibolite) |  |  |  |  |  |  |  |  |  |  |
|  |  | gr, extr. fine but mainly fine grained, cm layered, |  |  |  |  |  |  |  |  |  |  |
|  |  | alternation of massive greenstone and schistose |  |  |  |  |  |  |  |  |  |  |
|  |  | greenschist, some interbeds of cm size by altered |  |  |  |  |  |  |  |  |  |  |
|  |  | or even highly altered basalt, homogeneous |  |  |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

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| From | To | Description BH - 42G | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 38.30 - 38.80: lapilli of qtz-carbonate rock | | | | | | | | |
| | | 38.30 - 39.00: highly altered basalt | | | | | | | | |
| high A | | biotite - chlorite schist | | | | | | | | |
| | | gn, coarse grained, massive with small | | | | | | | | |
| | | scale folding | | | basaltic to andesitic to even dacitic volc. with | | | | | |
| 41.85 | 50.56 | 41.85 - 42.05: andesitic flow (slightly altered) | | 70° | interlayers of py, po mineralized qtz-keratophyr | | | | | |
| | | qtz-feldspar-chlorite-amphibole rock | | | | | | | | |
| | | lightgn, fine grained, laminated, | | | | | | | | |
| | | homogeneous, rare spots of py | | | | | | | | |
| | | 42.05 - 43.25: altered basalt with interlayers of qtz-keratophyr | | | | | | | | |
| | A | amphibole-chlorite schist | | | | | | | | |
| | | gn, coarse grained, laminated, homogeneous | | | | | | | | |
| | | sometimes inhomogeneous. | | | | | | | | |
| add. ≤ | 42.90 - 43.10 m | 42.60 - 42.86: intruded by qtz-keratophyr (lapilli) | | | | | | | | |
| | | some po and py mineralization, | | | | | | | | |
| | | occurring as disseminations | | | | | | | | |
| | | within qtz-keratophyric mat., | | | | | | | | |
| | | sulphides amount grades locally | | | | | | | | |
| | | up to 30 Vol-% | | | | | | | | |
| | | 43.15 - 43.20: qtz-keratophyr | | 80° | | | | | | |
| | | spotted py mineralization, | | | | | | | | |
| | | about 5 Vol.-% | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 42 | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 4325 - 43.87: dacitic volc (tuffaceous) | | | | | | | | |
| | | amphibole bear. chlorite - sericite - qtz - fspar rock | | | | | | | | |
| | | lightgn, finegrained, laminated but also | | | | | | | | |
| | | massive, amphibole randomly orientated | | | | | | | | |
| | | 43.80 - 43.82: qtz - keratophyr | | | | | | | | |
| | | spotted py arranged in bands | | | | | | | | |
| | | 1 to 2 Vol.-% | | | | | | | | |
| | | 43.87 - 47.00: altered basalt with numerous qtz-keratophyr interlayers | | | | | | | | |
| | | amphibole - chlorite rock / schists | | | | | | | | |
| | A | gn, medium and coarse grained, huge laths | | | | | | | | |
| | | of amphibole throughout (0.2 to 2.5 cm) | | | | | | | | |
| | | often randomly orientated, arranged in | | | | | | | | |
| | | mm to cm layers, occasionally porphyric | | | | | | | | |
| | | texture, some spots of py, in places good carb. | | | | | | | | |
| | | 43.90: qtz-keratophyr | | | | | | | | |
| | | diss py, 2 Vol.-% | | | | | | | | |
| | | 44.12: " | | | | | | | | |
| | | 44.70: " | | | | | | | | |
| | | 45.10: " | | | | | | | | |
| | | 45.30: po dissemination in basalt (4 Vol.-% | | | | | | | | |
| | | 45.75 - 45.80: qtz-keratophyr | | | | | | | | |
| | | finest diss. of py and po 1 Vol.-% | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 42 ξ | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 45.90 - 46.37: py and po dissemination in | | | | | | | | |
| | | basalt or mixed basalt with | | | | | | | | |
| | | qtz-keratophyr, 5 Vol-% | | | | | | | | |
| | | 46.60 - 46.65: qtz-keratophyr | | | | | | | | |
| | | 47.00 - 50.56: dacitic to andesitic flow | | 45° | | | | | | |
| | A/C | carbonaceous to high carb. qtz-fspar-sericite-chlorite rock | | | | | | | | |
| partly | | light gr., fine grained, laminated, some | | | | | | | | |
| | high A | lapilli, homogeneous, towards lying | | | | | | | | |
| | | on interlayers of highly altered basalt, generally | | | | | | | | |
| | | increase in phyllosilicates mainly | | | | | | | | |
| | | chlorite incoming some amphibole | | | | | | | | |
| | | here more andesitic (48.40 - 50.56) | | | | | | | | |
| 50.56 | | basaltic sequence | | | | | | | | |
| | A | 50.56 - 52.56: altered basalt | | | | | | | | |
| | | carbonate bear. chlorite amphibolite | | | | | | | | |
| | | gr., medium grained, pisolithic | | | | | | | | |
| | | amphibole, massive, more or less | | | | | | | | |
| | | homogeneous, sometimes spots of py | | | | | | | | |
| | | 52.56 - 58.50 greenstone | | | | | | | | |
| | | gr., fine grained, massive, some irregular | | | | | | | | |
| | | carbonate features, sometimes altered, | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 42 G | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 54.50: qtz-Keratophyr | | | | | | | | |
| | | diss. py of 2 Vol-% | | | | | | | | |
| | | 56.75 - 56.80: qtz-Keratophyr | | | | | | | | |
| A | 56.80 – 56.90 | 57.30 – 57.35: " | | | | | | | | |
| | | lamina of py, total min < 1 Vol-% | | | | | | | | |
| | | 58.50 – 63.40: basalt flow | | | | | | | | |
| | | carbonate bear. to carbonaceous amphibolite | | | | | | | | |
| | | g.gr. medium grained, massive in | | | | | | | | |
| | | places schistose, sometimes layered, | | | | | | | | |
| | | pisolithic amphiboles but sometimes | | | | | | | | |
| | | ellipsoidal amphiboles, some bands | | | | | | | | |
| | | of qtz, homogeneous | | | | | | | | |
| C 61.00 – | 61.70 | 60.95: bomb of translucent qtz | | | | | | | | |
| 62.80 – 63.40 | | | | | | | | | | |
| | | 63.40 – 70.80: basalt flow | | | | | | | | |
| | | greenstone | | | | | | | | |
| | | gr. fine grained, massive, some irregular | | | | | | | | |
| | C 65.15 | carb veining, some spotted carbonate | | | | | | | | |
| | | 70.00: translucent qtz bomb | | | | | | | | |
| | | 70.70: bombs of qtz-Keratophyr | | | | | | | | |
| | | 68.38 – 68.56: py impregnation within | | | | | | | | |
| | | basalt, sometimes network features, 2 Vol-% | | | | | | | | |

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# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH - 42E | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 70.80 - 85.30 : basalt flow | | | | | | | | |
| | | greenstone | | | | | | | | |
| | | gn, extr. fine grained, massive, some | | | | | | | | |
| | | qtz-veining or layering, interbedded | | | | | | | | |
| | | cm or mm layers of highly altered | | | | | | | | |
| | | mat., dm sections of fine grained greenschist | | | | | | | | |
| | | 71.55 - 71.60: qtz-keratophyr | | | | | | | | |
| | | 71.70 - 71.90: " | | | | | | | | |
| | | finest diss. of py arranged in | | | | | | | | |
| | | string of pearl like features, | | | | | | | | |
| | | < 1 Vol-% | | | | | | | | |
| | | 71.90 - 72.30: mixed basalt with qtz-keratophyr | | | 80° | | | | | |
| high ∠ 72.30-72.40 | | well layered, network or spotted | | | | | | | | |
| | | po throughout, total amount | | | | | | | | |
| | | 5 Vol-% | | | | | | | | |
| | | 72.45: bomb of translucent qtz | | | | | | | | |
| sections! | | 85.30 - 94.80 : altered basaltic ~~[illegible]~~ tuff | | | | | | | | |
| | | carb. bear. sericite - chlorite - amphibolite | | | | | | | | |
| ∠ to even high ∠ | | grgn, medium grained, ~~[illegible]~~ crudely layerd but often well layered, | | | | | | | | |
| | | homogeneous, ptolithic amphibole, plagioclase | | | | | | | | |
| | | altered to carbonate, sericite, epidote assemblage, | | | | | | | | |

# DIAMOND DRILL LOG

Tverrfjellet

FOLLDAL VERK A/S

From | To | Description BH-429 | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag

inplaces high altered basalt interlayered

88.15 - 88.75: close alternation of altered basalt
with cm qtz-keratophyr layers,
keratophyr with spotted py min.
of mainly-5 Vol.%

90.70 - 91.00: alternation of altered basalt with
qtz-keratophyr carrying py min.

91.70 - 92.40: mixed altered basalt with 80°
qtz-keratophyric mat., often
lamina or layers rich in py

92.64 - 93.10: high altered basalt

high A carb. sericite - biotite-chlorite schist
grgr, medium grained, same texture
as before, bio pseudomorph amph.

94.80 - 96.70 : basalt flow
greenstone to greenschist
gr, fine grained may even be extr. fine grained,
massive to schistose, some distortion with
irregular qtz-veining (no alteration of wall rock)

96.70 - 105.00 : altered basalt flow

A/C carb. sericite - chlorite - amphibolit rock

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-42 g | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  | grgn to gngr, medium to slightly coarse grained,<br>crudely layered, mainly inhomogeneous,<br>amphibole pisolithic but too ellipsoidal,<br>plagioclase totally decomposed, in places an<br>alternation of well altered and slightly<br>altered rock, sections mixed with qtz-<br>keratophyr, sections with fine grained<br>basalt, here only slight alteration but<br>spotted carb.<br>97.70 - 98.00 : basalt mixed with qtz-kera<br>layers with spotted py min<br>always < 10Vol-%<br>98.70: qtz-kera with spotted py, 5 Vol-%<br>98.90 - 99.03: qtz-keratophyr with py ore<br>spotted py allthrough with about<br>30 Vol-%<br>99.20 - 99.40: qtz-keratophyr<br>high carb. with some spots of py<br>99.40 - 99.90: see 97.70 - 98.00 m<br>100.80: bomb of qtz-keratophyr<br>101.15 - 101.20: qtz-keratophyr<br>some fine diss. py of 2 Vol-% |  |  |  |  |  |  |  |  |

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 10

| From | To | Description BH-42 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|

102.15 - 102.25: qtz - keratophyr
with fine diss py of 2 Vol %

102.90 - 102.95: qtz-keratophyr
with diss. of py of 30 Vol.-%

103.35 - 104.26: basalt flow (slightly altered)
greenschist
gr, fine grained, homogeneous,
some spotted and irregular
veiny carb.

104.90: qtz-keratophyr
with finest diss of py 3 Vol.-%

105.00 - 112.30: basalt flow
greenschist
gr, fine grained parielly even extr. fine
grained, schistose while in finest sections
often massive, slightly carbonaceous,
spots and irregular veins, sometimes
folded.

109.40 - 109.60: some interlayers of qtz-keratophyr
with lamina of rich py, total
py amount 10 Vol.-%

# DIAMOND DRILL LOG

Tverrfjellet

FOLLDAL VERK A/S

| From | To | Description BH - 42 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 110.45 - 110.50: py-ore | | | | | | | | |
| | | 110.80 - 110.84: qtz-keratophyr with diss. py | | | | | | | | |
| | | min. of 10 Vol-% | | | | | | | | |
| | A<br>111.05-111.15 | 111.60 - 111.67: qtz-keratophyr with diss py | | | | | | | | |
| | | min of 10 Vol-% | | | | | | | | |
| | | 112.30 - 117.75: basalt flow (slightly altered increasing towards lying) | | | | | | | | |
| | | chloritic amphibolite | | | | | | | | |
| | | gr. porphyritic texture, randomly orientated | | | | | | | | |
| | | amphi. of 0.1 to 0.7 cm size in fine grained | | | | | | | | |
| | | matrix mainly composed of chlorite, sections | | | | | | | | |
| | | of homogeneous amphibolite with prolithic | | | | | | | | |
| | | amphibole, here medium grained, massive | | | | | | | | |
| | | to mildly layering | | | | 70° | | | | |
| | | 114.40 - 114.60: alternation of basalt with qtz- | | | | | | | | |
| | | kera. layers sometimes mixed | | | | | | | | |
| | | mat. spot of py allthrough | | | | | | | | |
| A | 114.30 -<br>115.50 | 114.80 - 114.95: qtz-keratophyr | | | | | | | | |
| | | disseminated py min of 20 Vol-% | | | | | | | | |
| A/K | 115.50<br>–<br>117.75 | 117.15: bombs of qtz-keratophyr | | | | | | | | |
| | | 117.20 - 117.40: altered basalt with spotted py | | | | | | | | |
| | | mineralization of 7 Vol-% | | | | | | | | |

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH - 42 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| 117.75 | 155.50 | Ore zone | | | | | | | | |
| | | 117.75 - 118.85: py ore | | | | | | | | |
| | | 118.30: interlayer of carb. qtz-fspar biotite rock (altered qtz kera) | | | | | | | | |
| | | 118.85 - 119.27: altered qtz-keratophyr | | | | | | | | |
| | A/C | carb. biotite - qtz - fspar rock | | | | | | | | |
| | | gr with brown stringers, biotite pseudomorph | | | | | | | | |
| | | amphibole, ditto of biotite orientated to | | | | | | | | |
| | | stringers, sometimes lamina of crossed | | | | | | | | |
| | | biotite. | | | | | | | | |
| | | 119.27 - 119.32: py ore | | | | | | | | |
| | | 119.32 - 119.74: close alternation of high altered basalt and | | | | | | | | |
| | high A | high altered qtz-keratophyr | | | | | | | | |
| | | biotite-chlorite or biotite-chlorite-qtz-fspar assemb. | | | | | | | | |
| | | 119.74 - 119.83: py ore | | | | | | | | |
| | | 119.83 - 122.60: alternation of dm thick layers of qtz-kera and | | | | | | | | |
| | A to sometimes | altered basalt | | | | | | | | |
| | high A | 121.25 band of massive py ore | | | | | | | | |
| | | 122.30 - 122.40: spotted mt | | | | | | | | |
| | | 122.60 - 123.51: py ore | | | | | | | | |
| | | 123.51 - 124.27: qtz-keratophyr | | | | | | | | |
| | | amphibole - qtz - fspar rock | | | | | | | | |
| | | gr to gngr, fine grained with problastic 0.1-0.2 cm amphiboles | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-42C | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | inhomogeneous composition. |  |  |  |  |  |  |  |  |
|  |  | 124.27 - 125.70: py ore |  |  |  |  |  |  |  |  |
|  |  | 125.70 - 125.94: high altered basalt |  |  |  |  |  |  |  |  |
|  | high t/C | carbonate rich biotite - chlorite schist |  |  |  |  |  |  |  |  |
|  |  | gn, coarse grained, inhomogeneous, |  |  |  |  |  |  |  |  |
|  |  | some giant C |  |  |  |  |  |  |  |  |
|  |  | 125.94 - 130.08: py-ore |  |  |  |  |  |  |  |  |
|  |  | 129.40 - 130.08: ex. mt |  |  |  |  |  |  |  |  |
|  |  | 130.08 - 130.34: alternation of high altered basalt with |  |  |  |  |  |  |  |  |
|  | high t/C | cm layers of qtz-keratophyr |  |  |  |  |  |  |  |  |
|  |  | biotite - chlorite assemblages |  |  |  |  |  |  |  |  |
|  |  | 130.34 - 146.40: py ore |  |  |  |  |  |  |  |  |
|  |  | 131.80: band of altered basalt |  |  |  |  |  |  |  |  |
|  |  | 146.40 - 153.00: ex. mt high in cy |  |  |  |  |  |  |  |  |
|  |  | 150.70 - 151.10: qtz-keratophyr |  |  |  |  |  |  |  |  |
|  |  | reworked, stringery cy min |  |  |  |  |  |  |  |  |
|  |  | 151.75 - 151.90: high altered basalt |  |  |  |  |  |  |  |  |
| high t |  | biotite - chlorite schist |  |  |  |  |  |  |  |  |
|  |  | irregular aggregates of cy |  |  |  |  |  |  |  |  |
| high t |  | 152.40 - 152.90: " |  |  |  |  |  |  |  |  |

Hamar Trykk A/S

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH-42G | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 153.00 - 153.50: py ore with ex. mt | | | | | | | | |
| | | 153.50 - 153.80: high altered qtz-Kera. | | | | | | | | |
| high A | | sericite qtz-fspar rock | | | | | | | | |
| | | irregular stringers + aggregates of cy and ex mt | | | | | | | | |
| | | 153.80 - 155.50: py ore | | | | | | | | |
| 155.50 | 156.40 | high altered basalt | | | | | | | | |
| high A | | amphibole - biotite - chlorite schist | | | | | | | | |
| | | gn to bgn, coarse grained, inhomogeneous, irregular | | | | | | | | |
| | | cy and py mineralization mainly as aggregates of | | | | | | | | |
| | | spots, no veins or stringers. | | | | | | | | |
| | | 155.95 - 156.10: qtz - keratophyr | | | | | | | | |
| | | finest diss of py, 5 Vol-% | | | | | | | | |
| //// <br> 156.40 | 158.50 | andesitic tuff | | | | | | | | |
| C | | carbonaceous amphibole-chlorite schist | | 45° | | | | | | |
| | | light gn, fine grained with 0.1 to 0.2 cm needles of | | | | | | | | |
| | | amphibole randomly orientated, laminated, | | | | | | | | |
| | | homogeneous | | | | | | | | |
| 158.50 | 160.90 | qtz-keratophyr in places translucent qtz | | | | | | | | |
| | | qtz-fspar rock | | | | | | | | |
| | | wh., extr. fine grained, massive, in places flasers of | | | | | | | | |
| | | slightly altered amphibole, py min of big spots 50 Vol-% | | | | | | | | |
| | | (159.30 - 159.45; 160.85 - 160.90) | | | | | | | | |

# DIAMOND DRILL LOG

Tverfjellet

FOLLDAL VERK A/S

| From | To | Description BH - 42 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| 160.90 | 161.70 | high altered basalt | | | | | | | | |
| high A/K | | carbonaceous biotite-chlorite rock/schist | | | | | | correlates with | | |
| | | bigr, medium and coarse grained gradual | | | | | | 143.00 - 145.00 m | | |
| | | transition, bio pseudomorph amphibole, | | | | | | BH-29 | | |
| 161.70 | 163.75 | qtz-Keratophyr | | | | | | | | |
| | | qtz-fspar rock | | | | | | | | |
| | | wh., fine grained, massive | | | | | | | | |
| | | disseminated py min: 161.70 - 161.75 (25 Vol-%) | | | | | | | | |
| | | 161.90 - 162.20 (10 Vol-%) | | | | | | | | |
| | | 162.60 - 162.75 (50 Vol-%) | some ex mt | | | | | | | |
| | | 161.75 - 161.90: altered andesitic to dacitic volc. | | | | | | | | |
| A | | amphibole - chlorite schist | | | | | | | | |
| | | lightgr, fine grained with poikilitic amphibole | | | | | | | | |
| | | 0.1 to 0.2 cm randomly orientated, homogeneous. | | | | | | | | |
| //// 163.75 | 165.45 | py ore zone | | | | | | | | |
| | | qtz-Keratophyr with disseminated py ore (40 Vol.-%) | | | | | | | | |
| 165.45 | 181.80 | basalt zone | | | | | | | | |
| | | 165.45 - 166.20: altered basalt flow | | | | | | | | |
| A | | chlorite-amphibole schist | | | | | | | | |
| | | gr, coarse grained slowly decrease in grain | | | | | | | | |
| | | size towards lying, here medium grained, in | | | | | | | | |
| | | homogeneous, | | | | | | | | |
| | | 167.90: qtz-Keratophyr with diss py, 15 Vol.-% | | | | | | | | |

# DIAMOND DRILL LOG

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FOLLDAL VERK A/S

| From | To | Description BH-42 g | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 166.20 - 171.00: greenschist |  |  |  |  |  |  |  |  |
|  |  | gr, medium to fine grained, |  | 45° |  |  |  |  |  |  |
|  |  | sometimes ellipsoidal amphibole, |  |  |  |  |  |  |  |  |
|  |  | homogeneous, some irregular qtz- |  |  |  |  |  |  |  |  |
|  |  | veining |  |  |  |  |  |  |  |  |
|  |  | 171.00 - 172.00 : high altered basalt |  |  |  |  |  |  |  |  |
| high A |  | carb. biotite - chlorite schist |  |  |  |  |  |  |  |  |
|  |  | gr, coarse to medium grained, inhomogeneous |  |  |  |  |  |  |  |  |
|  |  | in places lenses of qtz-fspar embedded, |  |  |  |  |  |  |  |  |
|  |  | slowly grading in altered basalt |  |  |  |  |  |  |  |  |
|  |  | 172.00 - 174.10 : altered to slightly altered basalt |  |  |  |  |  |  |  |  |
| A until |  | chlorite - amphibolite |  |  |  |  |  |  |  |  |
|  | 173.45 | gr, medium grained, massive, homogeneous, |  |  |  |  |  |  |  |  |
|  |  | several interbeds of qtz-keratophyr, |  |  |  |  |  |  |  |  |
|  |  | 172.60: qtz-keratophyr |  |  |  |  |  |  |  |  |
|  |  | 172.80 - 172.84: " with some spots of py |  |  |  |  |  |  |  |  |
|  |  | 173.00 - 173.20 : " with diss. py of 10 Vol.-% |  |  |  |  |  |  |  |  |
|  |  | 173.35 - 173.40 : " " |  |  |  |  |  |  |  |  |
|  |  | 173.50 - 174.00 : folded section qtz-keratophyr with |  |  |  |  |  |  |  |  |
|  |  | basalt |  |  |  |  |  |  |  |  |
|  |  | disseminated py min. within qtz-kera |  |  |  |  |  |  |  |  |
|  |  | layers, 5 Vol-% |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 17

| From | To | Description BH-42 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 174.10 - 176.50 : greenschist | | | | | | | | |
| | | gr. fine grained, homogeneous, some | | | | | | | | |
| | | carbonate as diss. spots and irregular | | | | | | | | |
| | | veiny features, sometimes concordant | | | | | | | | |
| | | 176.50 - 181.80 : slightly altered basalt flow | | 60° | | | | | | |
| | | carbonate bear. to carb. biotite - chlorite - amphibole rock | | | | | | | | |
| | | ggr. medium grained, homogeneous, slightly | | | | | | | | |
| | | layering, poikilitic amphibole sometimes | | | | | | | | |
| | | decomposed to bio., plagioclase altered | | | | | | | | |
| | | to carbonate - sericite - epidote assemblages, | | | | | | | | |
| | | interlayered sections of very low alteration. | | | | | | | | |
| | | folded. | | | | | | | | |
| | | 176.50 - 177.00: folded section with qtz-kera. | | | | | | | | |
| | | and basalt. minor py min. | | | | | | | | |
| | | as diss. in qtz-kera. | | | | | | | | |
| | | 178.90 - 179.60 : bands of qtz-keratophyr or | | | | | | | | |
| | | translucent qtz | | | | | | | | |
| | | 180.10 - 180.65 : qtz-keratophyr | | | | | | | | |
| | | some py min. as finest diss. | | | | | | | | |
| 181.80 | 183.00 | qtz-keratophyr | | | | | | | | |
| | | translucent, extr. fine grained, massive, | | | | | | | | |
| | | some spots of po as dissem. | | | | | | | | |

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 18

| From | To | Description BH-42 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| section V |  |  |  |  |  |  |  |  |  |  |
|  |  | 181.80 - 181.85: py ore |  |  |  |  |  |  |  |  |
| 183.00 | 188.73 | basalt section |  | 60° |  |  |  |  |  |  |
| section III |  | 183.00 - 183.50: andesitic tuff |  |  |  |  |  |  |  |  |
|  |  | light gr. fine grained, laminated, inhomo- |  |  |  |  |  |  |  |  |
|  | A | geneous, alternation of more basaltic with |  |  |  |  |  |  |  |  |
|  |  | more felsic to intermed. mat., mainly |  |  |  |  |  |  |  |  |
|  |  | altered bio-chlorite assemblages |  |  |  |  |  |  |  |  |
|  |  | //// 183.50 - 188.73: unaltered to highly altered basalt |  |  |  |  |  |  |  |  |
| A | 183.50 - 183.80 | greenschist alternates with bio-amphibole schists |  |  |  |  |  |  |  |  |
|  |  | and bio-chlorite schist |  |  |  |  |  |  |  |  |
| high A | 184.80 - 185.80 | gr., mainly fine grained, with increasing alter- |  |  |  |  |  |  |  |  |
|  |  | ation gradual increase in corn size, |  |  |  |  |  |  |  |  |
|  |  | garnets within slightly altered basalt 185.80 - 186.70 |  |  |  |  |  |  |  |  |
|  |  | 185.30 - 185.60: qtz-keratophyr |  |  |  |  |  |  |  |  |
|  |  | 187.60 - 187.63: with finest |  |  |  |  |  |  |  |  |
|  |  | disseminations of py, 5Vol-% |  |  |  |  |  |  |  |  |
|  |  | 187.30 - 188.20: high altered basalt |  |  |  |  |  |  |  |  |
| high A/C |  | carbonaceous chlorite schist |  |  |  |  |  |  |  |  |
|  |  | lig. gr., fine grained, homogeneous, |  |  |  |  |  |  |  |  |
|  |  | spots of carbonate. |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 19

| From | To | Description BH - 42 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 182.73 | 190.00 | andesitic volc. | | | | | | | | |
| section II | | amphibole - sericite - chlorite rock | | | | | | | | |
| | | light gn, fine grained with porphyric amphiboles | | | | | | | | |
| | | 0.2 cm average size, lenticular mildly | | | | | | | | |
| | | scattered, crudely layered. | | | | | | | | |
| 190.00 | 195.00 | dacitic tuff | | | | | | | | |
| | | carb. tour. garnet - biotite - sericite - chlorite schist | | | | | | | | |
| | | lightgn. fine grained with spotted bio., inhomogeneous | | | | | | | | |
| | | with lapilli tuff texture, to the lying proportions | | | | | | | | |
| | | more massive. | | | | | | | | |
| 195.00 | 202.77 | qtz - keratophyre | | | | | | | | |
| | | slightly carb. biotite - sericite - qtz - fspar rock | | | | | | | | |
| | | lightgr, fine grained, crudely layered but mainly | | | | | | | | |
| | | massive, homogeneous, sections with laths | | | | | | | | |
| | | of amphibole randomly orientated, 0.5 cm size | | | | | | | | |
| | | | | | | | | | | |
| | | 202.77 a.o. BH. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 42 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | samples: 42/1 | 17. | 10 | | | | | | |
| | | 42/2 | 34. | 70 | | | | | | |
| | | 42/3 | 44. | 90 | | | | | | |
| | | 42/4 | 47. | 70 | | | | | | |
| | | 42/5 | 50. | 15 | | | | | | |
| | | 42/6 | 55. | 10 | | | | | | |
| | | 42/7 | 79. | 50 | | | | | | |
| | | 42/8 | 93. | 65 | | | | | | |
| | | 42/9 | 111. | 90 | | | | | | |
| | | 42/10 | 116. | 65 | | | | | | |

amar-Trykk A/S

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

| From | To | Description BH-71 G | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| samples only of BH | | | | | | | | | | |
| | 0.50 m | dacitic volcanic<br>slightly carb. biotite - sericite schist<br>gr to bluish gr. spotted biotite laths only randomly orientated, more or less homogeneous, some irregular qtz veining | | 75-0 | | | | | | |
| | 5.90 m | felsic volcanic with sedimentary compounds<br>qtz-rich - biotite - sericite rock<br>gr, homogeneous, nearly massive, crudely layered, slightly alternation of qtz-rich and sericite - biotite rich layers, porphyritic biotite mostly orientated | | 90° | | | | | | |
| | 7.90 m | dacitic volcanic, biotite - sericite schist<br>gr, crudely bedded, homogeneous, spotted bio. randomly orientated, some lenses of qtz, occasionally spots of carb. | | 80° | | | | | | |
| | 8.00 m | qtz - keratophyr<br>garnet bearing amphibole - biotite - qtz - fspar rock<br>gr, fine grained (sugary qtz) with huge laths (mainly 2.0 cm size) of "decomposed" amphibole (biotitisation), amphibole randomly orientated, slightly layered rock | | 90° | | | | | | |

Hamar-Trykk A/S

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 71 [illegible] | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8.70 m | felsic agglomerate | | | | | | | | |
| | | slightly carb. biotite-amphibole qtz-fspar rock | | | | | | | | |
| | | gr. vry inhomogeneous, lenticular qtz to | | | | | | | | |
| | | qtz-carbonate embedded in biotite-amphibole, | | | | | | | | |
| | | amphibole mainly not orientated | | | | | | | | |
| | 14.50 m | dacitic agglomerate | | | | | | | | |
| | | carbonate bearing biotite-qtz-fspar rock | | | | | | | | |
| | | br to grbr, porphyric texture, biotite pseudomorph | | | | | | | | |
| | | amphibole, needles of max 1.0 cm size randomly | | | | | | | | |
| | | orientated, embedded big round and lenticular | | | | | | | | |
| | | bombs of qtz. | | | | | | | | |
| | 16.30m | dacitic lapilli tuff | | | | | | | | |
| | | qtz-rich biotite-chlorite-sericite schist/rock | | | | | | | | |
| | | brownish gr. qtz-lapilli embedded in phyllosilicate | | | | | | | | |
| | | matrix, biotite as typical 0.2 cm lath randomly | | | | | | | | |
| | | orientated, homogeneous | | | | | | | | |
| | 18.00 m | agglomerate | | | | | | | | |
| | | bombs of qtz-keratophyr and homogeneous qtz | | | | | | | | |
| | | embedded in basaltic to andesitic mat., border of | | | | | | | | |
| | | bombs of silicized, matrix slightly carb. plag. | | | | | | | | |
| | | amphibolite or amphibolite, vry inhomogeneous | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

BH - 71 G

| From | To | Description | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | 21.40m | felsic agglomerate<br>homogeneous qtz as lenticular rolled out (pressed) bodies within a matrix of plagioclase and amphibole. sometimes some sericite and biotite, amphibole needles mainly of 0.1 to 0.3 cm size and randomly orientated | | | | | | | | |
| | 22.80m | agglomerate<br>homogeneous qtz to qtz-keratophyr within plagioclase-amphibolite, looks reworked | | | | may be fault | | | | |
| | 26.90m | chert<br>massive, bordering basalt flow (greenschist) | | | | | | | | |
| | 27.70m | green schist<br>gn, fine grained, crudely laminated, interfingering of finest fissures filled by qtz and small faults, looks stressed | | 45° | | may be fault | | | | |
| | 30.90m | dacitic lapilli tuff<br>garnet-biotite-sericite schist<br>gr, layered with lenses of biotite-qtz rock, typical spotted biotite sometimes arranged in mm laminae. | | 30° | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 71 G | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 40.70 | dacitic tuff (partly lapilli) | | 45° | | | | | | |
| | | slightly carbonaceous garnet - amphibole - biotite - sericite schist | | | | | | | | |
| | | gr. porphyritic amphibole (max. 0.5 cm size) randomly | | | | | | | | |
| | | orientated, decomposed to biotite, mainly homogeneous, | | | | | | | | |
| | | in places lapilli texture | | 45° | | | | | | |
| | 52.20 | dacitic tuff (partly lapilli) | | | | | | | | |
| | | garnet - biotite - sericite schist | | | | | | | | |
| | | gr. homogeneous, crudely layered, randomly lapilli | | | | | | | | |
| | | of qtz - biotite mat., spotted bio. | | | | | | | | |
| | 70.60 | dacitic flow | | 45° | | | | | | |
| | | garnet-biotite - sericite schist | | | | | | | | |
| | | gr. homogeneous, crudely layered, some indication | | | | | | | | |
| | | by arrangement of biotite, spotted bio. | | | | | | | | |
| | 82.50 | dacitic flow | | 15° | | | | | | |
| | | see 70.60 | | | | | | | | |
| | 87.20 | dacitic flow | | 50° | | | | | | |
| | | see 70.60 | | | | | | | | |
| | 89.20 | agglomerate | | | | | | | | |
| | | extremely pressed and rolled out qtz - carbonate within | | | | | | | | |
| | | dacitic tuff matrix (typical garnet - biotite - sericite schist), | | | | | | | | |
| | | small scale zick-zack folding | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 71 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 97.40 | dacitic flow | | 60° | | | | | | | |
| | | see 70.60 m | | | | | | | | | |
| | 99.20 | dacitic to andesitic flow | | | | | | | | | |
| | | garnet bearing biotite-amphibole-sericite schist | | | | | | | | | |
| | | lightgrishgr, fine grained, porphyritic amphibole, | | | | | | | | | |
| | | needles of max 1.5 cm size and randomly | | | | | | | | | |
| | | orientated, biotite as small plates typical | | | | | | | | | |
| | | unorientated. | | | | | | | | | |
| | 103.80 | dacitic flow | | 60° | | | | | | | |
| | | see 70.60 m | | | | | | | | | |
| | | occasional wavy layers of qtz-carbonate, epiclastic | | | | | | | | | |
| | | mat (?) | | | | | | | | | |
| | 104.90 | dacitic flow | | | | | | | | | |
| | | see 70.60 m | | | | | | | | | |
| | | sometimes lapillies of qtz-carbonate | | | | | | | | | |
| | 112.30 | dacitic flow / tuff | | | | | | | | | |
| | | garnet-biotite-sericite schist | | | | | | | | | |
| | | lightgrishgr, layered, biotite mainly arranged | | | | | | | | | |
| | | in small lamina, needl. of bio (max 1.0 cm size) | | | | | | | | | |
| | | surely pseudomorphs after amphibole, randomly | | | | | | | | | |
| | | orientated but often accompanied in layers | | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-71 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 114.20 | dacitic flow<br>see. 112.30 but here more massive and homogeneous, amphibole needles not totally decomposed biotite | | | | | | | | |
| | 116.30 | dacitic flow<br>see. 70.60 m.<br>interlayers of qtz-rich material, often with wavy texture, may epiclastic qtz.<br>dacite more qtz-rich than normal | | 80° | | | | | | |
| | 119.25 | qtz-rich biotite - sericite schist<br>gr. fine grained with small amount of spotted biotite, crudely laminated, mostly massive looking, mainly epiclastic sed. | | 20° | | | | | | |
| | 128.40 | quartzite<br>laminated by biotite - sericite schist, often flaser or wavy bedding | | | | | | | | |
| | 131.00 | recrystallized homogeneous qtz | | | | | | | | |
| | 133.80 | conglomerate<br>homogeneous quartzite clasts surrounded by biotite - sericite schist, very inhomogeneous, pressed mat. | | | | | | | | |

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 7

| From | To | Description BH - 71/8 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | 138.50 | qtz-keratophyr interlayer capped by a basaltic | | 75° | | | | | | |
| | | layer of medium grained amphibolite | | | | | | | | |
| | | hanging and lying consists of epiclastic | | | | | | | | |
| | | quartzite | | | | | | | | |
| | | some spots of py and po (mainly forming | | | | | | | | |
| | | finests stripes) and et mt | | | | | | | | |
| | 142.10 | quartzite | | | | | | | | |
| | | evidently development of conglomeratic | | | | | | | | |
| | | texture, irregular flasers or lamina of | | | | | | | | |
| | | sericite schist | | | | | | | | |
| | 142.60 | quartzite | | | | | | | | |
| | | some interlayers of sericite | | | | | | | | |
| | 144.20 | see 142.60 | | | | | | | | |
| | 147.00 | " | | | | | | | | |
| | 151.00 | see 142.10 | | | | | | | | |
| | 155.00 | see 142.10 extremely folded, isoclinal | | | | | | | | |
| | | small scale | | | | | | | | |
| | 158.70 | see 142.10 | | | | | | | | |
| | 160.00 | see. 142.60 folded | | | | | | | | |
| | 166.10 | see. 142.60 " | | | | | | | | |
| | 168.50 | see. 142.60 " | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

Tverrfjellet

PAGE 8

| From | To | Description BH - 718 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 175.50 | quartzitic conglomerate | | | | | | | | |
| | 182.50 | " | | | | | | | | |
| | 187.30 | " | | | | | | | | |
| | 189.80 | quartzite | | | | | | | | |
| | 192.70 | quartzite | | | | | | | | |
| | 197.50 | bedded quartzite | | | | | | | | |
| | 200.50 | bedded quartzite crudely conglomerate | | | | | | | | |
| | 206.60 | bedded quartzite, small scale folding | | | | | | | | |
| | 211.80 | bedded quartzite | | | | | | | | |
| | 213.20 | dacitic lapilli tuff | | | | | | | | |
| | | carb. bear. qtz-rich biotite - sericite schist | | | | | | | | |
| | 217.00 | bedded quartzite | | | | | | | | |
| | 224.00 | bedded quartzite, sericite layers little graphitic | | | | | | | | |
| | 225.10 | " , with dacitic lapilli tuff interlayers | | | | | | | | |
| | 230.00 | bedded quartzite | | | | | | | | |
| | 232.20 | " | | | | | | | | |
| | 234.50 | homogeneous quartz within bedded qtzite | | | | | | | | |
| | 238.40 | quartzite with lamina of biotite - sericite schist (tuff) | | | | | | | | |
| | 242.20 | conglomerate | | | | | | | | |
| | 250.30 | bedded quartzite | | | | | | | | |
| | 255.80 | " | | | | | | | | |
| | 256.90 | " | | | | | | | | |

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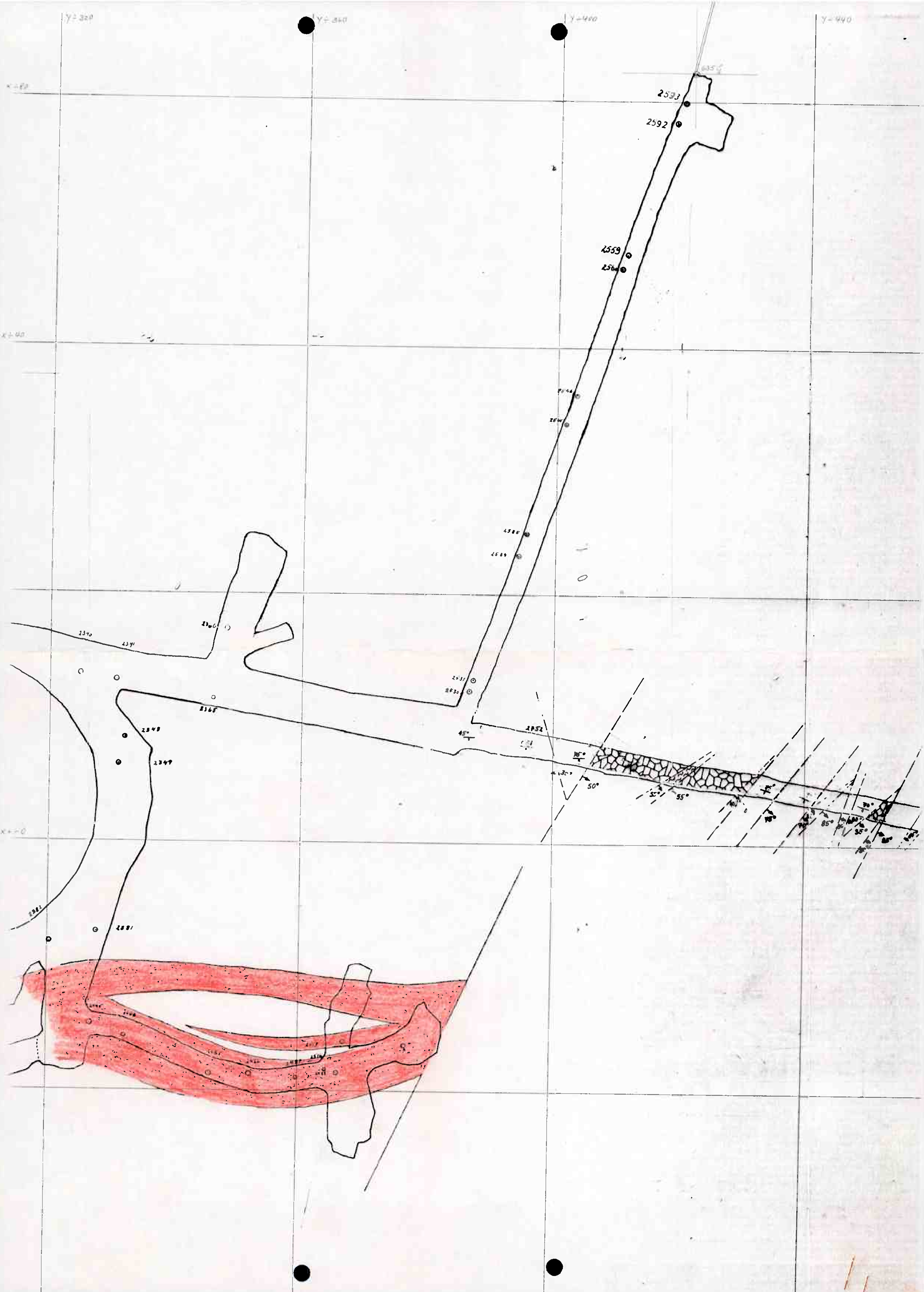
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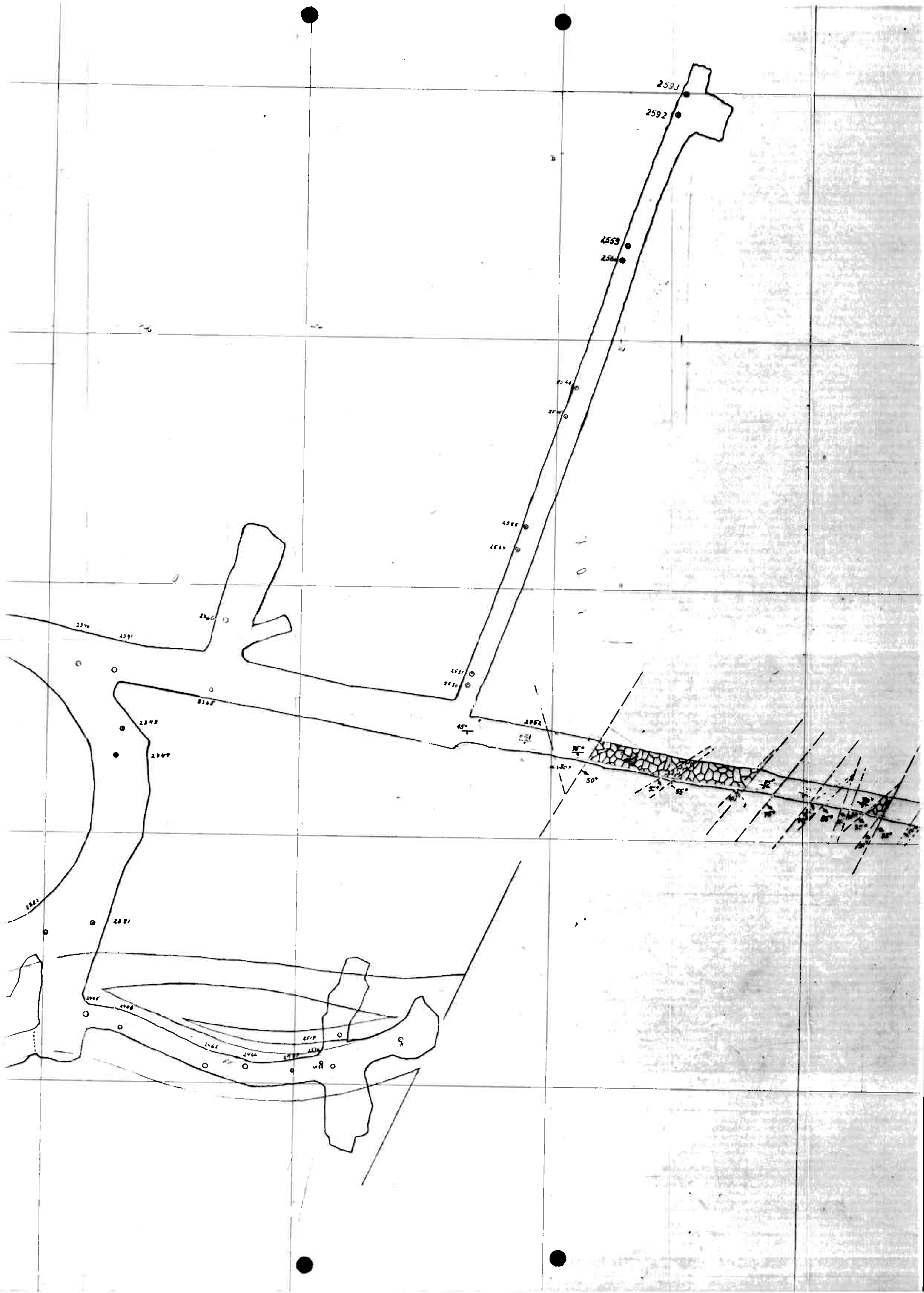
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635$^g$

NiVÅ 7

X=-84,934

Y= -421.017

Z= 669,165

Fall: 0°49'

Retning: Γ212,759$^g$ ved gruvenettet

635 G

basalt section

0.00 – 3.00 m: amphibolite to plag amphibolite
green, fine to slightly med. grained, crudely development of layering, mm plagioclase crystals always extremely flattened, sometimes mm to cm bands of pure amphibolite or qtz with pisolithic amphibole

3.00 – 3.10 m: qtz-keratophyr
grey, fine grained, layered by mm bands of carbonate, at lying some mm pisolithic amphibole,

3.10 – 21.60 m: carbonaceous biotite bearing amphibole schist

green, fine grained with slightly coarse biotite crystals often randomly orientated, some time section with medium grained pisolithic plagioclase – biotite – amphibole schist, layered, mm to nearly cm layers of qtz and carbonate alternate with bio – bearing amphibole schist, in places very rich in quartz (kerato-
partly il phyric looking) due to multiple qtz layers: 13.60 – 13.75, 18.47 – 18.55, 18.90 – 19.05, 19.38 – 19.43, 20.24 – 20.27)
il spots of max 1 mm size: 17.90 – 21.60. some rare spots of py
section remainds to 322.70 – 334.70 of BH 769 G

21.60 – 29.35 m: amphibole schist
green, fine to extremely fine grained, crudely development of layering, often massive looking, some mm interbeds of qtz (milky) and qtz – keratophyr, spots and
il stringers or lamina of carbonate sometimes present, il as finest dissemination throughout, some rare spots of py, in places streched porphyroblasts of albite: 25.95 – 26.20, 27.00 – 27.50.

29.35 – 30.90 m: qtz-plagioclase rich amphibole schist
grey green, fine to extremely fine grained, layered, often close alternation (mm to cm) of qtz-keratophyr
il (carb. qtz-fspar rock with amphibole) and amphibolite, sometimes py as flattened crystals, il as finest dissemination

30.90 – 34.80 m: qtz-keratophyr, garnet-amphibole-qtz-fspar rock
grey to slightly greenishgrey, trachytic texture, pisolithic amphibole of mm to max 1 cm length randomly orientated, only sometimes aligned with foliation, layered, alternation of amphibole less and amphibole rich layers, sometimes mm bands or lenses of carbonate,
ex mt, mt sometime cm bands of cherty mat: dusty mt within grainy qtz rock. in places mm spots of mt

looks very similar to 346.30 – 348.40 of 769 G

34.80 - 59.90 m: amphibolite to amphibole schist

il

green, fine grained to extremely fine grained, crudely development of layering mainly massive looking, mm sometimes even cm interlayers of qtz with carbonate, finest disseminated il throughout, some cm sections of chert: 37.88 - 37.92, 38.59 - 38.67, 43.77 - 43.88, 46.20 - 46.28, 47.95 - 47.97, 48.19 - 48.21, 48.60 - 48.63, 49.08 - 49.12, 50.68 - 50.74 (spots of py), 58.61 - 58.64. in places spots of py

59.90 - 68.70 m: plag amphibolite to amphibolite

light greygreen, massive, fine grained to slightly medium grained, sometimes mm porphyroblasts of plagioclase always streched, some mm bands or stringers of qtz or carbonate

61.65 - 63.05: carbonaceous qtz-plagioclase amphibole schist

greygreen, medium grained, pisolithic amphibole randomly orientated, close alternation of carbonate bands (mm), plag amphibolite and qtz-plag amphibolite

68.70 - 77.70 m: plag amphibolite

green, porphyric texture, fine grained amphibole, porphyroblasts of plagioclase homogeneously embedded, often streched but too undeformed, 1 cm max in Ø.

77.70 - 84.25 m: amphibole schist

partly il

green, fine to extremely fine grained, massive with crudely development of layering, some sections with porphyric plagioclase: 79.55 - 79.95, 80.20 - 80.30, some layers of biotite-rich qtz-fspar amphibole schist: 83.15 - 83.25, 84.00 - 84.20. may be slight A, il spots from: 78.90 - 83.15

84.25 - 115.70 m: plag amphibolite

see: 68.70 - 77.70 m

some cm to dm intersections of qtz-fspar amphibolite to amphibole qtz-fspar rock: porphyric - trachytic - texture, mm to cm needles of amphibole randomly orientated, crudely layered, alternation of amphibole rich to amphibole lesser bands in places, sometimes spots of py. (89.05 - 89.25, 90.10 - 90.75, 98.55 - 99.45, 103.30 - 103.50, 103.95 - 104.10, 109.75 - 110.00)

93.00 - 93.20: carbonaceous qtz-rich biotite - chlorite schist

high A

browngreengrey, coarse grained, lenticular texture dis spots of idio carb.

115.70 - 45.35m : amphibolite
green, fine grained to extremely fine grained, massive, in places crudely layered, mm bands of qtz with or without carbonate, some cm to dm sections well layered with medium grained amphiboles mainly pisolithic, here often too some carbonate and chlorite, fine disseminated il throughout*

il

120.60 - 121.05 : carbonaceous qtz-chlorite-amphibole schist
grey green, medium grained, flaser texture, massive, looking like lapilli tuff, finest spots of carbonate

*at hanging wall often interlayered by dm to cm thick sequences of amphibole-qtz rock often carbonaceous: greygreen to greenish grey, extremely good layered, alternation of amphibolite - mainly fine grained - with chert layers with pisolithic amphibole : 137.72 - 138.02, 138.95 - 139.40, 140.50 - 140.65, 141.50 - 141.65, 141.80 - 141.92, 142.60 - 143.50 (epidote rich), 144.04 - 144.22 (epidote rich), 144.26 - 144.70 (epidote rich), 144.90 - 144.96 (epidote rich), 145.02 - 145.35 (epidote rich)

143.50 - 144.04 : chert
with dusty mt

144.22 - 144.26 : chert
with dusty mt, 2mm nearly massie mt band

144.70 - 144.90 : chert

144.96 - 142.02 : chert
with dusty mt

145.35 - 145.50 : fault

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

| From | To | Description BH - 635 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 142.85 | basalt section | | | | | | | | |
| | | 0.00 – 30.00: basalt flow, amphibolite - amphibole schist | | | | | | | | |
| | | gr. fine grained in places slightly medium grained, | | | | | | | | |
| | | massive to layered, irregular qtz or qtz-carbonate | | | | | | | | |
| | | veining, in places carbonate leaching, spotted carb | | | | | | | | |
| | | or banded, sometimes interlayers of biotite-rich | | | | | | | | |
| | | mat., some spots of py | | | | | | | | |
| | | 30.00 - 34.60: plagioclase amphibolite | | | | | | | | |
| | | gngr, medium crystalline, pisolithic amphibole | | | | | | | | |
| | | often orientated, crudely layered, sometimes | | | | | | | | |
| | | an interbeds of cherty layers, some stringers | | | | | | | | |
| | | of carbonate. | | | | | | | | |
| | | 34.60 - 68.60: amphibole schist | | 90° | | | | | | |
| | | gr, finegrained tendency to extr. fine grained, | | | | | | | | |
| | | massive, irregular qtz or even qtz-carbonate | | | | | | | | |
| | | veining, some finest spots of carbonate, | | | | | | | | |
| | | dm or cm intersections of more medium | | | | | | | | |
| | | grained varieties, here more plag and some | | | | | | | | |
| | | biotite scarce spots and flasers of py | | | | | | | | |
| | | 34.60 - 34.70: milky qtz | | | | | | | | |
| | | 36.60 - 36.70: | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 2

| From | To | Description BH - 635 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 68.60 - 77.90: porphyric amphibolite<br>gr. fine grained with tendency to extr. fine grained, porphyroblasts of plagioclase (albite-oligoclase) as max. 1.0 cm lenses (stretched) or spots, homogeneous but sometimes irregular distribution. | | | | | | | | |
| | | 77.90 - 84.30: amphibolite<br>gr. extr. fine grained, massive with irregular qtz-veining, some interbeds of biotite-plag-amphibole mineral assemblage (may be slightly altered) some rare spots of py | | | | | | | | |
| | | 84.30 - 115.60: porphyric amphibolite<br>see: 68.60 - 77.90 m | | | | | | | | |
| | | 115.60 - 142.85: amphibolite<br>gr. fine grained to extremely fine grained, homogeneous, irregular qtz veining, spotted il, hanging proportion showing often interlayers of chert or qtz-carbonate or qtz-keratophyr | | | | | | | | |

Tverrfjellet

# DIAMOND DRILL LOG

**FOLLDAL VERK A/S**

| From | To | Description BH-635 f | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| 142.85 | 180.60 | transition zone between basalt layer and clean | | | | | | | | |
| | | sedimentary hanging section | | | | | | | | |
| | | 142.85 - 145.35: cherty basalt | | | | | | | | |
| | | carbonaceous qtz-rich plag-amphibolite | | | | | 142.10 | fault | | |
| | | gigr, mainly medium sometimes slightly | | | | | 145.35 | fault | | |
| | | coarse grained, mainly laminated or | | | | | | | | |
| | | layered, often prolithic amphibole, rare | | | | | | | | |
| | | stringers of ex nt, dm interlayers of | | | | | | | | |
| | | chert | | | | | | | | |
| | | 145.35 - 145.85: quartzite ~~[illegible]~~ | | | | | | | | |
| | | sericite bearing quartzite | | | | | | | | |
| | | very distinct flaser texture, some irregular | | | | | | | | |
| | | carbonate stringers | | | | | | | | |
| | | 145.85 - 180.60: tuffaceous sediment with intersections | | | | mainly 80° | | | | |
| | | of basaltic tuffites and cherty basaltic tuffs and dacitic tuffites | | | | | | | | |
| | | sericite-amphibole bear. quartzite, qtz-rich | | | | | | | | |
| | | amphibolite or amphibole schists, | | | | | | | | |
| | | biotite-sericite rich quartzites, carbonaceous biotite | | | | | | | | |
| | | sericite schist, | | | | | | | | |
| | | gr and gngr or gn, mainly fine crystalline with | | | | | | | | |
| | | often porphyric texture (amphibole max 3.0 cm size and | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-635 G | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | randomly orientated, biotite as typical porphyroblasts within dacitic tuffs and tuffites), mainly layered or laminated, in places massive, sometimes distinct flaser texture (conglomerates), very sporadically some cm interlayers of altered basaltic mat (biotite-chlorite assemblage), sometimes garnets, spots of mt: 147.40 - 147.60, 151.00 - 158.10 here very scarce, milky qtz: 154.95 - 155.10, 155.15 - 155.50, 160.10 - 160.90, | | | | | | | | |
| 180.60 | 216.30 | slightly tuffaceous sediment<br>chlorite-sericite bearing quartzite<br>gr, fine grained laminated to layered, homogeneous, chlorite mainly forming mineral accumulates, extremely small scale isoclinal folding | | | | | | | | |
| 216.30 | 220.30 | basaltic tuffite<br>qtz-rich sericite-chlorite-amphibolite<br>greenish gr, medium crystalline with in places porphyroblasts of amphibole, megacrysts randomly orientated, very inhomogeneous, distorted section, sometimes garnets with max 1.0 cm size | | | | | | | | |

quartzites: 151.65 - 153.20, 158.30 - 158.30, 158.55, 160.30 - 162.30, 163.90 - 164.60

168.-168.40 basalt: amphibole qtz rock see 14
115.70 - 116.35

152.75, 174.60 fault
158.72 - 158.85
166.70 - 168.00,

small scale faulting
213.40 - 215.30

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 635 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| 220.30 | 227.85 | qtz-keratophyr<br>chlorite-biotite-sericite qtz-fspar rock<br>gr to slightgngr, medium crystalline phyllosilicates, flaser texture, laminated or layered, often highly distorted, small scale isoclinal folding, sometimes agglomeratic looking. | | | | | | | | |
| 227.85 | 319.00 | basalt section<br>tuffaceous section<br>227.85 - 233.30: mixed basaltic and felsic volcanics | | | | | | | | |
| high t | | qtz-fspar rich sericite-biotite-chlorite schist with biotite-chlorite-sericite-qtz-fspar rock<br>gradual changes in either phyllosilicate or qtz content, gr to gngr, medium and fine grained, laminated with occ. flaser texture, often close alternation of more basaltic and more felsic mat., some cm interlayers of qtz-keratophyr sometimes typical coarse graine high t basalt (biotite-chlorite mineral assemblage), always slightly carbonaceous, spots of mt: 232.60 - 233.00, sometimes spots of py | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 635 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 233.30 - 236.40: carbonaceous biotite bear. plagioclase amphibole schist | | | | | | | | |
| | C | qtz-grgr. medium grained with sections | | | | | | | | |
| | | more coarse crystalline, inhomogeneous, | | | | | | | | |
| | | laminated but massive, small scale | | | | | | | | |
| | | isoclinal folding, spotted carbonate | | | | | | | | |
| | | 236.40 - 239.80: amphibole schist | | | | | | | | |
| | | gr, fine grained, homogeneous, | | | | | | | | |
| | | some interlayers of altered basalt or | | | | | | | | |
| | | carbonaceous basalt, irregular | | | | | | | | |
| | | qtz-veining. | | | | | | | | |
| | | 239.80 - 242.70: carbonaceous biotite-chlorite schist | | | | | | | | |
| high t/C | | brownish gr, coarse grained, inhomogeneous, | | | | | | | | |
| | | small scale zig-zag folding, often | | | | | | | | |
| | | high foliated. | | | | | | | | |
| | | 240.10 - 240.30: qtz-keratophyre | | | | | | | | |
| | | 242.70 - 247.00: high carbonaceous plagioclase amphibolite | | | | | | | | |
| | C | gr, mainly medium grained, often layered, | | | | | | | | |
| | | spotted carbonate, sometimes fuzzy bodies, | | | | | | | | |
| | | interbedded dm-layers of amphibolite, | | | | | | | | |
| | | sometimes an interlayers of high t basalt | | | | | | | | |
| | | (246.00 - 246.30, 246.60 - 246.70), bombs of milky qtz: 243.75, 244.85. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH-635 ? | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 247.00 – 248.40: qtz-keratophyr | | 80° | | | | | | |
| | | c. biotite bearing qtz-fspar rock | | | | | | | | |
| | | gr, crudely layered, homogeneous, | | | | | | | | |
| | | spots of mt | | | | | | | | |
| | | 248.40 – 256.40: high carbonaceous plagioclase-biotite-chlorite schist | | | | 60-45° and ℓℓ | | | | |
| high t/C | | brownish gr. [illegible], medium grained, laminated tuff | | | | | | | | |
| | altered basaltic | in places massive, homogeneous, in places interlayers | | | | | | | | |
| | tuff- | of coarse grained biotite-chlorite schist, section | | | | | | | | |
| | | getting lesser altered towards hanging, here carb. plag amphibole schist | | | | | | | | |
| | | some interlayers of milky qtz: 249.10-249.20, 250.50-250.55, | | | | | | | | |
| | | 251.50-251.70, | | | | | | | | |
| | | 256.40 – 259.80: sericite-biotite bear. quartzite (qtz-lava or epi. rock) | | | | | | 20°80 | | |
| | | gr, laminated by sericite-biotite sometimes | | | | | | | | |
| | | accompanied by chlorite, biotite often as porphyroblasts | | | | | | | | |
| | | and randomly orientated, spotted mt | | | | | | | | |
| | | 259.80 – 262.80: biotite-sericite schist (altered andesitic tuff) | | | | | | | | |
| high t | | brownish gr. medium to slightly coarse crystalline, | | | | centrum of fold | | ℓℓ → | faulting and folding | |
| | | tectonized | | | | | | | | |
| | | 262.80 – 264.90: mainly altered basaltic tuff some intersections | | | | ℓℓ and 80° | | | | |
| | see 248.40-256.40 fold! | really unaltered | | | | | | | | |
| | | carbonaceous qtz-fspar chlorite-biotite schist | | | | | | | | |

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## DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description 3H - 635 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | greenish br., mainly coarse grained, laminated, | | | | | | | | |
| | | spotted carbonate, close alternation of qtz-plag | | | | | | | | |
| | | rich layers with phyllosilicate rich bands, | | | | | | | | |
| | | interbeds of amphibole schist and | | | | | | | | |
| | | plag-amphibolite (coarse grained with | | | | | | | | |
| | | poikilitic amphibole randomly orientated) | | | | | | | | |
| | | 264.90 - 269.30: altered andesitic to dacitic tuff | | | ∿ 80° | | | | | |
| high | A | similar to 259.80 - 262.80 fold!<br>qtz-fspar rich chlorite-biotite-sericite schist | | | | | | | | |
| | | brownish greenish gr., layered, small scale | | | | | | | | |
| | | folding outdying towards depth, | | | | | | | | |
| | | mainly medium cryst., biotite as porphyroblasts | | | | | | | | |
| | | randomly orientated, often pseudomorph | | | | | | | | |
| | | amphibole, occasionally flaser texture | | | | | | | | |
| | | 268.80: milky qtz | | | | | | | | |
| | | 269.30 - 269.55: milky qtz | | | | | | | | |
| | | 269.55 - 270.15: basaltic to andesitic tuff | | | ∿ | | | | | |
| high | A | qtz-fspar sericite - biotite - chlorite schist | | | | | | | | |
| | | brownish gr., medium to slightly coarse cryst., | | | | | | | | |
| | | layered, close alternation of felsic and | | | | | | | | |
| | | mafic bands, giant spots of wt. alt. amph. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-635 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|

270.15 - 278.80: andesitic to dacitic tuff / flow

qtz-fspar biotite-sericite schist in places

A

biotite-sericite rich qtz-fspar rock

brownish gr, medium crystalline, layered

with or without small scale folding,

in places coarse grained, alteration of

hornbl by biotite, bio often pseudomorph

amphibole, randomly orientated,

in places bombs of qtz, spotted mt

mainly concentrated within cm layers

from 276.10 - 278.80, in places spotted

carb.: 271.20 - 271.60, 273.90 - 274.60

75° and

fault: 276.90

277.10 - 277.30

277.60 - 278.80

(several faults)

278.30 - 279.30: qtz-rich chlorite-sericite schist (altered volcanic)

light greenish gr, fine crystalline, laminated,

giant spots of mt throughout

279.30 - 286.00: qtz-keratophyr

biotite-sericite bearing qtz-fspar rock

gr, layered, homogeneous, in places

slightly porphyric biotite randomly orientated,

some cm to dm interlayers of light A andesitic may dacitic

tuff, always with sharp borders (280.80 - 280.95, 281.50 - 281.90, 282.90 - 283.10)

spots of mt until 280.10

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH - 635 G | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 286.00 - 319.00 : basalt flow |  | mainly 75° |  |  |  |  |  |  |
|  |  | mainly amphibolite (very similar to hanging basalt) |  |  |  |  |  |  |  |  |
|  |  | gr. fine grained to extremely fine grained, |  |  |  |  |  |  |  |  |
|  |  | homogeneous, interlayers of slightly medium |  |  |  |  |  |  |  |  |
|  |  | grained varieties have gradual transitions, |  |  |  |  |  |  |  |  |
|  |  | some cm interbeds of plag- amphibolite |  |  |  |  |  |  |  |  |
|  |  | with ophitic texture, some times interbeds |  |  |  |  |  |  |  |  |
|  |  | of carbonate |  |  |  |  |  |  |  |  |
|  |  | milky qtz as interbands or bombs: 289.10 - 289.50, 307.05, 308.00, 311.00, 311.40, |  |  |  |  |  |  |  |  |
|  |  | 312.55 - 312.70, 313.05 - 313.25 |  |  |  |  |  |  |  |  |
|  |  | gradual transition towards felsic volcanic section, |  |  |  |  |  |  |  |  |
|  |  | slowly incomming of more plagioclase and or qtz |  |  |  |  |  |  |  |  |
| 319.00 | 341.30 | qtz-keratophyr to dacitic tuff and quartzite |  | ≈ |  |  |  |  |  |  |
|  |  | biotite- sericite bear. quartz-fspar rock, garnet-qtz-fspar-sericite-(amphibole) |  |  |  |  |  |  |  |  |
|  |  | biotite schist, quartzites, qtz-fspar rich biotite-sericite schist |  |  |  |  |  |  |  |  |
|  |  | gr to brownish gr, laminated, varying qtz-fspar content gradual, |  |  |  |  |  |  |  |  |
|  |  | often porphyroblasts of altered amphibole (biotite) randomly |  |  |  |  |  |  |  |  |
|  |  | orientated, idiom. garnets of max 0.5 cm size sporadically, |  |  |  |  |  |  |  |  |
|  |  | spotted unit : 319.00 - 321.50 |  |  |  |  |  |  |  |  |
| 341.30 | 361.80 | basalt flow |  |  |  |  |  |  |  |  |
|  |  | amphibolite, plag-amphibolite |  |  |  |  |  |  |  |  |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH - 635 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | grgn, medium grained, massive, pirolitic | | | | | | qtz-kera | | |
| | | amphibole randomly orientated (ophitic texture) | | | | | | basalt<br>qtz-kera | | |
| | | in places slightly layered, spotted carbonate: 346.50 - 347.90, | | | | | | basalt | | |
| | | 350.30 - 353.60, 355.70 - 361.80 | | | | | | | | |
| | | py min as rare spots: 347.20, 353.60 | | | | | | | | |
| | | qtz-kera from above: 353.60 - 353.90, 354.80 - 354.90, 355.20 - 355.70 | | | | | | | | |
| 361.80 | 386.00 | qtz-keratophyr or tuffaceous sediment | | 75° | | | | | | |
| | | sericite-biotite-amphibole qtz-fspar rock | | | | | | | | |
| | | gr, massive to laminated, huge idioblasts of amphibole | | | | | | | | |
| | | randomly orientated, strong varying qtz content, mineral | | | | | | | | |
| | | composition goes often towards intermediate volcanic, sometimes | | | | | | | | |
| | | some spots of py, spotted carb: 375.50 - 377.15 interbed of massive carb. | | | | | | | | |
| | | 363.20 - 363.60: agglomerate | | | | | | | | |

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[redacted]

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description 3H-768 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | 52.15 | Basalt sequence | | | | | | | | |
| | | basalt flow with interlayers of tuffs and tuffaceous mat | | | | | | | | |
| | carbdoes | amphibole schist, amphibolite and plag.-amphibole schist | | | | | | | | |
| | | gn, mainly fine grained with cm to dm intersection, | | | | | | | | |
| | | medium grained, mostly very well schistose, massive | | | | 45° | | | | |
| | | but in places laminated or good layered, cm- | | | | | | | | |
| 40.00 | | interbeds of qtz-carbonate, biotite-chlorite and | | | | | | | | |
| 41.70 | | quartzite, in places idioblasts of biotite randomly | | | | | | | | |
| | | oriented, more medium grained variations often | | | | | | | | |
| sample<br>⑬ | | homogeneous and slightly schistose. | | | | | | | | |
| | | in places spotted carbonate or carbonate as irregular | | | | | | | | |
| | | stringers, veinlets or sometimes as fuzzy bodies mainly | | | | | | | | |
| | | joining felsic tuff interlayers, some rare spots of Py | | | | | | | | |
| | | 9.05: band of milky qtz | | | | | | | | |
| | | 8.95 - 9.30: tuff sequence | | | | | | | | |
| | | close alternation of felsic and basaltic | | | | | | | | |
| | | tuff labs with slightly alteration | | | | | | | | |
| | | (chlorite-amphibole schist). finest | | | | | | | | |
| | | diss. of carbonate | | | | | | | | |
| | | 9.80 - 10.20: tuff sequence | | | | | | | | |
| | | like 8.95-930 but often mixing of | | | | | | | | |
| | | both mat to dacitic - andesitic mat. | | | | | | | | |

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768 G - 16    201.50 - 202.95 m

calcareous biotite - chlorite schist (similar TVN - IV - 13)
gn, homogeneous with in places crudely developed compositional banding, scattered biotite crystals within a fine-crystalline chlorite groundmass, biotite may be not oriented but ~~can~~ often is aligned with the major foliation of the rock caused by parallel arrangement of flakes of chlorite, in places biotite forms discontinuous laminae or even mm-thick bands, carbonate occurs as scattered tiny crystals but forms too mm-thick conformable bands here often accompanied by quartz, sparce idioblasts of Py.

768 G - 15    198.10 - 198.80 m
calcareous to high calcareous biotite - sericite schist (similar 685D/9 but minor qtz)
gr with faint greenish tint, ~~several~~ abundant brown spots, in places distinctly mm-banded, variation in composition, wide alternation of layers composed by sericite and biotite with lenses or bands made by carbonate. biotite tends to occur as scattered porphyroblasts - 0.15 cm large - which mainly are not oriented, they, however, sometimes are

parallel the major foliation of the rock and form discontinuous bands or mm - thick laminae, biotite is unevenly distributed its ~~co~~ ~~concentration~~ ~~gradually~~ gradually changes from subordinate to highly enriched, carbonate forms up to 0.5 cm thick bands and / or lenses which are parallel the major foliation of the rock.

768g - 14 172.55 - 175.00 m

schistose amphibolite

gn, fine crystalline, homogeneous with several tiny crosscutting veins ~~composed~~ filled by carbonate, in places horizons or conformable layers rich in epidote; abundant scattered blasts - poikiloblasts - of ilmenite with sutured boundaries on average 0.15 cm across; sparce flattened crystals of py.

768f - 13 40.00 - 41.70 m

plagioclase amphibolite schist

grgn, medium crystalline, crudely developed leopard texture, amphibole forms fascicular bundles or 0.1 cm large elongated crystals which are embedded in a matrix composed of plagioclase and epidote.

①

BH-768 ζ

210.65 - 212.60:

chlorite schist to epidote-chlorite schist
(meta tuffaceous sediment)
lightgn, fine crystalline, mm-layers, lenses and stringers of qtz mainly conformable in places crosscutting layering, dissemination of mm-thick irregular spots of il (?), in places rich in biotite, cm-thick layers of chlorite-biotite phyllite and qtz-biotite phyllite intercalated, often flaser texture or close alternation of chlorite, qtz and biotite, cm to dm-thick interlayers of mt-bearing quartzite (meta-chert): 211.04 - 211.06, 211.70 - 211.77, 211.83 - 212.02, 212.22 - 212.63.

sharp footwal.
80°

212.60 - 216,15: amphibole-chlorite schist
(metamorphosed mixed volcanic-sedimentary sequence, domination in volcanic (basic) compounds)
gn, fine-grained, with in places lepidoblastic texture of randomly oriented slightly porphyric needles of amphibole (0.2 cm length), in places porphyroblasts of amphibole reaching max 2.0 cm needle lengths, gradual change between layered and massive looking sections, in places chlorite bearing amphibolite which represents basic lava flows (214.45 - 215.00), always dissemination of mm-large spots of

②

ilmenite, interlayers of mt-bearing (pyrogenic) chert: 212.95-213.05, 213.17 - 213.42, 213.78 - 213.86, 214.30 - 214.32 with some cm-thick spots of py, 215.12 - 215.13, 215.36 - 215.37 with rare spots of py, 215.46 - 215.48 with rare spots of py, cm-thick layers of qtz-Swakophyr (amphibole-qtz-fspar rock): 214.70 - 214.79, 214.85 - 214.91; layer of py (train of granules): 216.02.

gradual footwall
80°

216.15 - 218.80: calcareous to high calcareous amphibole bearing chlorite schist
(metamorphosed mixed volcanic-sedimentary mat., tuffaceous sediment)
gn, grgn, fine-grained, laminated with in places flaser-texture, sometime distinctly layered, alternate carbonate rich bands and carbonate rich greenschist, amphibole as minute prisms mainly being parallel the lamination of the rock, carbonate mainly forms round, spots which on average are 0.2 cm in diameter, minute spots of mt from 218.00 m, in places some py: 217.64.
sharp contact to underlying rock.
80°

218.80 - 219.90: calcareous sericite bearing mt-rich chlorite schist

(meta - tuffaceous sediment with oxide facies iron formation)
gn and bluishgr, gr, cm-layered, in places laminated with tendency to flaser texture, alternate phyllosilicate rich bands with disseminated mt and abundant carbonate and blue qtz with fine-grained dissemination of mt and layers of po, sometimes lenses or flasers of pure qtz interbedded, always sharp boundarys between layers.
sharp footwal
80°

219.90 -

magnetite- quartzite
(oxide facies iron formation)
gr, bluishgr, extremely fine grained, massive with crude development of cm-layering due to variation in mt-amount, extreme fine disseminated mt

BH 7689

- 348.38: sericite - chlorite schist

(meta-pelite, slightly volcanic)
slightly bluishgr, fine-grained, wide development of lenticular and flaser texture, dissemination of finest spots of il, rare minute spots of po.
90°
fault contact to following biotite-sericite schist.

348.38 - 353.18 biotite - sericite schist

(meta-pelite)
gr, flaser to lenticular texture, in places laminated with alternate qtz-bands and phyllosilicate layers, porphyroblasts of biotite nearly always crosscutting the main foliation, high carbon content (graphite phyllite) at 351.17 - 351.22, here dissemination of po together with rare lamina of po, medium-grade py mineralization at 351.95 - 351.97.

85° - 90°

gradual transition into sericite - biotite schist

353.18 - 354.30: chlorite bearing sericite - biotite schist
(meta-pelite with minor volcanic constituents)
browngr, flaser to lenticular texture with intersections being laminated, biotite crystals slightly coarser grained than chlorite and sericite, they always are conformable with the major plane of foliation, 353.33 - 353.55 and 353.77 - 353.87: intersections of calcareous pyrrhotite-sericite - biotite schist which in some places carry reddish coloured garnets ~~of~~ max. 0.2 cm in ~~diameter~~ across, some zones carry abundant carbon, pyrrhotite mineralization occurs within a net-like feature or forms flasers which always are conformable with the major plane of foliation, carbonate forms lenses of cm-size.
90°
sharp contact to sericite - quartzite

correlation with
PO-zone BH 13
74.00 - 76.76 m
sample 13/8 and
13/9

354.30 - 356.00: biotite - sericite rich quartzite
(meta-arenite)
gr, lenticular to flaser texture,

lenses and flasers of qtz surrounded by stringers, flasers and lamina of phyllosilicates, biotite slightly porphyric with crystals being randomly oriented, in places strong foliation which mainly is seen by the elongation of biotite, py-po mineralization of medium grade at 355.54 – 355.62 m, idiomorphic crystals of py and xenomorphic po which normally forms flasers are accompanied by qtz and carbonate and some phyllosilicates, rare mm-thick interlayers of oxide facies iron formation

gradual transition into following biotite-sericite schist.

356.00 - biotite - sericite schist
(meta-pelite)
gr. crudely laminated, alternate qtz-rich and qtz-poor layers, often with lenticular or flaser texture, fine crystalline sericite, porphyroblasts of biotite often as 0.3 cm big clots being randomly oriented;

high-grade py-po mineralization at 356.56 - 356.70 m: idiomorphic py surrounded by xenomorphic po and qtz and phyllosilicates, slightly calcareous.

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-768 | Interval From | Interval To | Assays Cu | Assays Mo | Assays Pb | Assays Zn | Assays Au | Assays Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | hypidioblast of biotite randomly orientated | | | | | | | | |
| | | 20.40 – 21.70: tuff sequence | | | | | | | | |
| | | alternation of felsic and basic mat. laminated interval, carbonate as spots and lamina or as fuzzy boddies, idioblasts of biotite randomly orientated, dm intersections of qtz-porphyric to dacitic volcanic (carb. bear. sericite-biotite qtz-fspar rock) | | | | | | | | |
| | | 23.30 – 23.50: milky qtz | | | | | | | | |
| | | 24.25 – 24.50: dacitic tuff | | | | | | | | |
| | | slightly carb. to carb bear. qtz-fspar biotite-chlorite-sericite schist | | | | | | | | |
| | | light browngr., fine grained with porphyroblasts of biotite mainly aligned to schistosity, some mm to cm interbeds of basaltic (amphibole schist) mat., predominantly homogeneous. | | | | | | | | |
| | | same mat at: 24.85 – 24.90, 26.20 – 26.35, 26.85 – 26.95, 27.40 – 27.60, 33.75 – 33.85, 34.60 – 34.95, 35.15 – 35.30, 36.95 – 37.60, 42.45 – 42.50, 48.10 – 48.15, 49.40 – 49.45, 50.20 – 50.60 (some rare spots of py, po and cp). | | | | | | | | |

Tverfjellet **DIAMOND DRILL LOG**

FOLLDAL VERK A/S

PAGE 3

| From | To | Description BH-768 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 30.20 - 30.50: see 20.40 - 21.70 | | | | | | | | |
| | | 31.20 - 31.40: " | | | | | | | | |
| | | 33.00 - 33.15: " | | | | | | | | |
| | | 42.90 - 43.85: " sometimes over going | | | | | | | | |
| | | into dacitic volcanic as described with | | | | | | | | |
| | | 24.25 - 24.50. | | | | | | | | |
| | | 45.80 - 46.00. milky qtz | | | | | | | | |
| | | 46.00 - 46.15: see 20.40 - 21.70 | | | | | | | | |
| | high t | alteration (high t) at border to milky qtz | | | | | | | | |
| 52.15 | 53.85 | andesitic to basaltic tuff | | 45° | | | | | | |
| | | carbonaceous biotite - sericite - chlorite schist | | | | | | | | |
| | | gr to grgn, mainly fine grained with porphyroblasts | | | | | | | | |
| | | of biotite often arranged in separate layers, well | | | | | | | | |
| | | layered, often even laminated, alternation of | | | | | | | | |
| | | more felsic and more basic volcanic mat., in places | | | | | | | | |
| | | lenses of qtz - carbonate may be pressed pyroclasts, | | | | | | | | |
| | | often alternation of either biotite either chlorite - sericite | | | | | | | | |
| | | rich bands, sometimes highly basaltic | | | | | | | | |
| | | 52.85: some bombs of milky qtz with carbonate | | | | corr. | with | 769/ | section tuffaceous tuff + basaltic tuff |
| 53.85 | 78.80 | tuffaceous sediment or dacitic tuffite | | | | | corr. | with | 822/9 | |
| | | carbonate bearing qtz - fspar biotite - sericite - chlorite schist | | | | | sample | 768/1 | 66.60m | |

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Tverrfjellet ● **DIAMOND DRILL LOG** ●

FOLLDAL VERK A/S

| From | To | Description BH-768 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | light greenish gr, fine grained with typical | | 50° | | | | | | |
| | | porphyroblasts of biotite mainly randomly | | | | | | | | |
| | | orientated but in more foliated sections | | | | | | | | |
| | | aligned with schistosity, flaser to lenticular | | | | | | | | |
| | | texture (lapilli tuff ?), always layered | | | * here the qtz interbeds remaind to epiclastic origin | | | | | |
| | | or even laminated, sporadically mm to | | | | | | | | |
| | | cm interbeds of biotite-chlorite schist*, supposedly | | | | | | | | |
| | | altered basalt beds, decrease in chlorite towards | | | | | | | | |
| | | lying part here sericite predomination, getting very schistose towards fault zone | | | | | | | | |
| | | 63.35: bombs of milky qtz | | | | | | | | |
| | | 64.80: bomb of milky qtz | | | | | | | | |
| 78.80 | 24.60 | basaltic tuff with interlayers of andesitic to | 78.80-79.10 | | extremely fault zone | | | | | |
| | | dacitic tuffites and or tuffaceous sediments | 81.10 | | fault | | | | | |
| | | qtz-rich biotite-chlorite amphibole schist inter- | 82.00 - 82.50 | | several smaller faults | | | | | |
| | | layered by qtz-rich biotite-sericite-chlorite schists | | | | | | | | |
| | | or slightly carb. epidote-biotite-sericite schists | | | | | | | | |
| | | gn to light gn, mainly fine grained with typical | | | | | | | | |
| | | porphyroblasts of biotite often aligned with | | | | | | | | |
| | | schistosity, laminated and well layered, massive | | | | | | | | |
| | | only in more basaltic sections, in places flaser of | | | | | | | | |
| | | lenticular texture, extreme foliation in places | | | | | | | | |

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Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 768 | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84.60 | 111.20 | tuffaceous sediment with interbeds of altered basaltic tuffs | | | | | | 60° - 70° | | | |
| | | qtz-rich biotite - sericite - chlorite schist | | | | | | | | | |
| | | greenish gr, fine grained with often idioblasts | | | | | | | | | |
| | | of biotite stretched in extremely foliated | | | | | | | | | |
| | | section otherwise typical randomly oriented, | | | | | | | | | |
| | | often flaser or lenticular texture, laminated | | | | | | | | | |
| | | and well layered, in places mm to cm interbeds | | | | | | | | | |
| | | of basalt (biotite - chlorite - amphibole assembl.). finest dots of mt and/or il | | | | | | | | | |
| | | 90.10 - 91.35: altered basaltic tuff | | | | | | | | | |
| A/C | | carbonaceous qtz - fspar biotite - sericite - chlorite schist | | | | | | | | | |
| | | gr, fine grained with porphyroblasts | | | | | | | | | |
| | | of biotite mainly aligned foliation, | | | | | | | | | |
| | | well layered with flaser or lenticular | | | | | | | | | |
| | | texture, carbonate as stringers, flasers | | | | | | | | | |
| | | or lamina, spots of mt | | | | | | | | | |
| | | 94.10 - 95.40: altered basaltic tuff | | | | | | | | | |
| A/C | | see 9010 - 9135: here more qtz - rich, extr | | | | | | | sample | 768/2 | |
| | | flaser texture, lesser foliation, spots of mt | | | | | | | | 94.60 m | |
| | | 95.85 - 97.05: basaltic tuff | | | | | | | | | |
| | | some layers with good alteration but | | | | | | | | | |
| | | normally not or even slightly altered | | | | | | | | | |
| | | carbonate bearing qtz-rich biotite - sericite - chlorite - amphibole schist | | | | | | | | | |

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Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 768 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 106.15 - 106.30: quartzite | | | 99.30 | small | | fault | | |
| 111.20 | 112.75 | quartzite (epiclast sed.) | | 60-70° | 100.30<br>100.50 | | | "<br>" | | |
| | | laminated by biotite-sericite schist, finest | | | 101.10 - 10120 | | | same small faults | | |
| | | disseminations of mt | | | 104.00 | small | | fault | | |
| 112.75 | 126.25 | qtz-rich biotite - sericite schist [illegible] (epiclast sed.) | | 60-70° | 105.60<br>107.90 | | | "<br>" | | |
| | | lightgreenish gr, fine grained with normally | | | | | | | | |
| | | porphyric biotite randomly orientated, | | | | | | | | |
| | | foliated section show strongly aligned (streched) | | | | | | | | |
| | | biotite*, laminated with locally flaser or | | | * biotite content decrease slightly towards lying | | | | | |
| | | wavy bedding, sections with finest diss of | | | | | | | | |
| | | carbonate, sometimes bands of qtz - carbonate, | | | | | | | | |
| | | finest diss of mt throughout in places as | | | | | | | | |
| | | big spots, sometimes concentrated in cm to mm | | | | | | | | |
| | | interlayers. | | | | | | | | |
| | | 112.85 - 113.10: exhalative qtz, some finest diss of mt | | | | | | | | |
| | | 113.25 - 113.30: " no mt | | | | | | | | |
| | | 113.75 - 113.90: " , some finest diss of mt | | | | | | | | |
| | | 114.10 - 114.25: " " | | | | | | | | |
| | | 116.70 - 116.88: andesitic tuff | | | | | | | | |
| | | slightly carb. biotite-chlorite - sericite schist | | | | | | | | |
| | | bluishgr., fine grained, porphyric biotite often | | | | | | | | |
| | | streched, flaser to lenticular texture | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description DH - 768 f | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 116.85 - 116.95: qtz-keratophyr or milky qtz | | | | | | | | |
| | | irregular spots of py sometimes | | | | | | | | |
| | | as laminae, some fine strings | | | | | | | | |
| | | of mt | | | | | | | | |
| | | 116.95 - 117.85: tuffite, mainly dacitic | | | | | | | | |
| | | qtz-rich biotite - sericite schist | | | | | | | | |
| | | greenish gr, fine grained porphyric biotite often | | | | | | | | |
| | | streched and aligned with foliation, well | | | | | | | | |
| | | layered with randomly flaser or lenticular | | | | | | | | |
| | | texture, mm to cm interbeds of qtz- | | | | | | | | |
| | | keratophyr with py spots, spotted mt | | | | | | | | |
| | | throughout, sometimes interbeds high | | | | | | | | |
| | | in diss. mt | | | | | | | | |
| | | 117.85 - 117.95: exhalative qtz | | | | | | | | |
| | | finest layers of spotted mt | | | | | | | | |
| | | 117.95 - 118.20: tuffite, mainly dacitic | | | | | | | | |
| | | see: 116.95 - 117.85 | | | | | | | | |
| | | 118.20 - 118.25: exhalative qtz | | | | | | | | |
| | C | high carbonaceous, masses of | | | | | | | | |
| | | diss. mt, | | | | | | | | |
| | | 118.25 - 118.40: tuffite, mainly dacitic | | | | | | | | |
| | | see: 116.95 - 117.85 | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 768 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 118.40 - 118.47: exhalative qtz | | | | | | | | |
| | | 118.47 - 118.85: andesitic tuff | | | | | | | | |
| | | see: 116.70 - 116.85 | | | | | | | | |
| 126.25 | 133.70 | exhalative qtz | | | 120.10 - | 120.30 | | fault | ? | |
| | | masses of finest diss. of mt, mainly arranged in | | | 126.25 | | | fault | ? | |
| | | mm to cm layers or irregular bodies. | | | 126.75 - | 126.90 | | some small | | |
| | | 127.60 - 127.75: dacitic tuffite | | | | | | faulting | | |
| | | qtz-rich biotite-sericite schist | | | | | | | | |
| | | lightgreenish gr., fine grained, porphyric | | | | | | | | |
| | | biotite randomly orientated, small | | | | | | | | |
| | | scale folding, layered. | | | | | | | | |
| | | 128.95 - 129.60: dacitic tuffite | | | | | | | | |
| | | see: 127.60 - 127.75 no folding | | | | | | | | |
| | | 130.05 - 130.45: " | | | | | | | | |
| | | several interbeds of exhal qtz | | | | | | | | |
| | | 131.05 - 131.15: " | | | | | | | | |
| | | 131.20 - 131.25: " | | | | | | | | |
| 133.70 | 139.45 | epiclast sediment | | 85° | | | | | | |
| | | qtz-rich biotite-sericite schist or biotite-sericite quartzite | | | | | | | | |
| | | lightgreenish gr., fine grained with idioblasts | | | | | | | | |
| | | of biotite often stretched, laminated, homogeneous, | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH-768 ξ | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | high content in finest dots of mt | 137.05 - 139.25 strong fault zone | | | | | | | 4 |
| 139.45 | 142.70 | sericite-rich quartzite | | 80° | | | | | | |
| | | light greenish gr, flaser to lenticular texture, | | | | | | | | |
| | | often laminated, rare spots of mt, interbeds of somewhat higher phyllosilicate content | | | | | | | | |
| | | 140.45 - 140.60: exhalative qtz | | | | | | | | |
| | | some lamina of spotted mt | | | | | | | | |
| 142.70 | 165.35 | sequence of basaltic to andesitic tuff and | | | | | | | | |
| | | tuffites with dacitic tuffs and exhalative qtz, | | | | | | | | |
| | | qtz-keratophyrs and some sections of epiclastic | | | | | | | | |
| | | sediments | | | | | | | | |
| | | 141.70 - 141.80: andesitic tuff | | | | | | | | |
| | ≤ | carbonaceous biotite-chlorite-sericite schist | | | | | | | | |
| | | 141.80 - 142.00: qtz-rich sericite schist | | | | | | | | |
| | | 142.00 - 143.05: andesitic tuff | | | | | | | | |
| | ≤ | carbonaceous biotite-chlorite-sericite schist | | | (see above) | | | | | |
| | | greengr, fine grained with idioblastic | | | | | | | | |
| | | biotite sometimes streched, well | | | | | | | | |
| | | layered, often with flaser and/or | | | | | | | | |
| | | lenticular texture, some interbeds | | | | | | | | |
| | | of exhalative qtz | | | | | | | | |
| | | 143.05 - 143.45: epiclastic sediment | | | | | | | | |
| | | qtz-rich biotite-sericite schist | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 10

| From | To | Description BH - 768 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | 143.45 - 143.55: andesitic tuff | | | | | | | | |
| | | - see above | | | | | | | | |
| | | 143.55 - 143.95: epiclast sediment | | | | | | | | |
| | | qtz-rich biotite - sericite schist | | | | | | | | |
| | | 143.95 - 144.65: epiclast sed. | | | | | | | | |
| | | pressed conglomerate | | | | | | | | |
| | | biotite - sericite bear. quartzite | | | | | | | | |
| | | 144.65 - 144.80: dacitic tuffite | | 70° | | | | | | |
| | | qtz - rich biotite - sericite schist | | | | | | | | |
| | | extremely foliated, big spots | | | | | | | | |
| | | of mt | | | | | | | | |
| | | 144.80 - 145.00: exhalative qtz | | | | | | | | |
| | | finest diss of mt arranged | | | | | | | | |
| | | often in mm layers. | | | | | | | | |
| | | 145.00 - 147.30: dacitic tuffite (see above) | | | | | | | | |
| | | qtz-rich biotite - chlorite - sericite schist | | | | | | | | |
| | | greenish gr., fine grained with porphyric | | | | | | | | |
| | | biotite, well layered, foliated, | | | | | | | | |
| | | idiomorphic to hypidio spots of | | | | | | | | |
| | | mt (huge) | | | | | | | | |
| | | 147.30 - 147.70: qtz - keratophyr | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-768f | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | biotite-chlorite-sericite-qtz-fspar rock/schist | | | | | | | | |
| | | gr, fine grained, slightly | | | | | | | | |
| | | porphyric biotite, accumulation | | | | | | | | |
| | | in flasers or irregular lenses, | | | | | | | | |
| | | irregular flaser texture, fine at | | | | | | | | |
| | | dir. of int | | | | | | | | |
| | | 147.70 - 151.40. andesitic to basaltic tuff | | 70° | | | | | | |
| | ≤ | carbonaceous biotite-sericite-chlorite schist | | | | | | | | |
| | | gr. fine grained with porphyric | | | | | | | | |
| | | biotite randomly orientated, layered, often | | | | | | | | |
| | | close alternation of basaltic or andesitic | | | | | | | | |
| | | mat. with qtz-keratophyr or slightly | | | | | | | | |
| | | dacitic mat., carbonate as spots | | | | | | | | |
| | | throughout, sometimes as mm interlayers, | | | | | | | | |
| | | 151.40 - 152.20. epiclast sed. | | | | | | | | |
| | | pressed conglo. | | | | | | | | |
| | | biotite-sericite bear quartzite | | | | | | | | |
| | | sometimes basaltic interlayers with | | | | | | | | |
| | | idiomorphic to hypidio. spots of int | | | | | | | | |
| | | 152.20 - 155.00. tuffaceous sediment | | 80° | | | | | | |
| | | qtz-rich biotite-sericite schist | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 12

| From | To | Description DH - 768 ¢ | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | greenish gr. fine grained, porphyric |  |  |  |  |  |  |  |  |
|  |  | biotite randomly orientated, mainly |  |  |  |  |  |  |  |  |
|  |  | very homogeneous, laminated, |  |  |  |  |  |  |  |  |
|  |  | slightly carbonaceous in places, |  |  |  |  |  |  |  |  |
|  |  | spotted mt from 154.40 to end |  |  |  |  |  |  |  |  |
|  |  | mm bands of qtz-bvato-ply with |  |  |  |  |  |  |  |  |
|  |  | spots of py at 154.60 m |  |  |  |  |  |  |  |  |
|  |  | 155.00 - 155.90: tuffaceous sediment |  | 75° |  |  |  |  |  |  |
|  |  | sericite-rich quartzite and qtz-rich |  |  |  |  |  |  |  |  |
|  |  | biotite-sericite or biotite-sericite-chlorite |  |  |  |  |  |  |  |  |
|  |  | schist interlayered by cm layers of |  |  |  |  |  |  |  |  |
|  |  | ex. mt and exhalative qtz |  |  |  |  |  |  |  |  |
|  |  | fine grained with typical porphyric |  |  |  |  |  |  |  |  |
|  |  | biotite, laminated, |  |  |  |  |  |  |  |  |
|  |  | //// 155.90 - 156.45: epiclast sediment |  |  |  |  |  |  |  |  |
|  |  | biotite banded quartzite |  |  |  |  |  |  |  |  |
|  |  | close alternation of mm to cm layers |  |  |  |  |  |  |  |  |
|  |  | of biotite schist and quartzite, some- |  |  |  |  |  |  |  |  |
|  |  | times some stripes of ex mt and carbonate |  |  |  |  |  |  |  |  |
|  |  | //// 156.45 - 165.35: dacitic tuff |  |  |  |  |  |  |  |  |
|  |  | carbonate bear. biotite-chlorite-sericite schist |  |  |  |  | sample 768/3 159.80m |  |  |  |

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## DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 13

| From | To | Description BH - 768 ξ | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | brownish gr. fine grained with | | | 180° | | | | | |
| | | porphyric biotite randomly | | | | | | | | |
| | | orientated, laminated, in places | | | | | | | | |
| | | slightly lapilli tuff, mostly homogeneous. | | | | | | | | |
| | | carbonate as flasers or stringers or | | | | | | | | |
| | | lamina, sometimes finest diss. of mt | | | | | | | | |
| | | mainly in accumulates of lenticular shape. | | | | | | | | |
| | | besides that stripes and flasers of es mt, sometimes big hypidio spots of mt | | | | | | | | |
| | | 157.35 - 157.55: exhalative qtz | | | | | | mt [illegible] | | |
| | | with layers of es mt | | | | | | | | |
| | | 159.75: qtz-keratophyr | | | | | | | | |
| | | 160.75: " | | | | | | | | |
| | | 160.90-161.20: qtz-keratophyr with spots | | | | | | | | |
| | | and sometimes lamina of | | | | | | | | |
| | | py | | | | | | | | |
| 165.35 | 168.00 | exhalative qtz | | | | | | | | |
| | | finest diss of mt normally in accumulations | | | | | | | | |
| | | of irregular shape (fuzzy bodies, stripes, flasers, bands) | | | | | | | | |
| | | some big spots of py | | | | | | | | |
| 168.00 | 172.00 | basaltic tuff | | | | | | | | |
| | | biotite-amphibole schist | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-768 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | gr. finegrained, well layered, interbeds of | | | | | | | | |
| | | exhalative qtz, carbonate and carbonaceous | | | | | | | | |
| | | biotite schist, finest diss of mt throughout | | | | | | | | |
| | | 171.65 - 171.75: exhalative qtz | | | | | | | | |
| | | finest diss of mt | | | | | | | | |
| 172.00 | 190.10 | basalt flow | | 70-80° | | | | | | |
| 172.55 - 175.00 | | slightly carbonaceous amphibole schist | | | | | | | | |
| sample (14) | | gr. extremely fine to fine grained, laminated | | | | | | | | |
| | | to nearly massive looking, stripes and | | | | | | | | |
| 190.65 - 190.70 m qtz | | irregular veins of carbonate, spots of | | | 185.05 - 185.35 fault | | | | | |
| | | il throughout, sometimes milky qtz | | | | | | | | |
| | | interlayers | | | | | | | | |
| 190.10 | 210.10 | tuffites to tuffaceous sediments (mainly dacitic to qtz kera., sometimes andesitic) | | | | | | | | |
| 198.10 - 198.80 | | alternation of carbonaceous biotite - sericite schist, | | | | | | | | |
| sample (15) | | qtz-rich biotite schist, sericite-rich quartzite, | | 80-90° | | | | | | |
| 201.50 - | | carbonaceous biotite - qtz - fspar schist / rock, | | | | | | | | |
| 202.75 | | carbonaceous biotite - chlorite - sericite schist and | | | | | | | | |
| sample (16) | | quartzite and exhalative qtz | | | | | | | | |
| | | always well laminated, often carbonaceous | | | | | | | | |
| | | (idio to hypidio carbonate, sometimes as layers), | | | | most of the [illegible] | | | | |
| 202.20 - 202.23 m qtz | | spotted mt throughout, biotite often with porphyric habit | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-768 g | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | and randomly orientated, occasionally | | | | | | | | |
| | | flaser or lenticular texture, sometimes | | | | | | | | |
| | | mm to cm interbeds very rich in disseminated mt : 193.90 - 194.00, 194.20 - 194.30, | | | | | | | | |
| | | 195.40, 195.70, 197.60 - 198.00 several mm to cm bands, 205.80 - 205.95 several bands rich | | | | | | | | |
| | | in mt, 206.35 - 207.25 several bands rich in mt, 208.00 - 208.25 several band rich in mt | | | | | | | | |
| | | exhalative hor.: 195.75 - 195.80, 199.90 - 200.00, 202.20 - 202.30 with carbonate and cm band | | | | | | | | |
| | | of spotted py, 202.55, 203.70 - 204.00 with masses of finest diss of mt, | | | | | | | | |
| | | 204.75, 204.80 - 204.85. | | | | | | | | |
| | | in places spots of py or stringers of po always bound to | | | | | | | | |
| | | felsic interbeds rich in carbonate | | | | | | | | |
| 210.10 | 223.80 | metasandstone (quartz sandstone) | | 85° | | | | | | |
| | | biotite - sericite rich quartzite | | | | | | | | |
| | | gr. layered, mm to cm interlayers of mt rich bands, | | | | | | | | |
| | | mt as fine disseminations throughout, some | | | very high mt | | | | | |
| | | dm interbeds of nearly biotite - sericite schists | | | | | | | | |
| | | (metapelites) | | | | | | | | |
| 223.80 | 228.00 | metapelite | | 85° | | | | | | |
| | | carb bear. qtz-rich sericite schist | | | | | | | | |
| | | gr. laminated, often with distinct flaser texture or | | | | | | | | |
| | | lenticular texture, homogueous, disseminated mt | | | | | | | | |
| | | throughout | | | | | | | | |

Turnfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description 3H - 768 g | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| m 228.00 | 237.15 | coarse grained metasc. to pressed conglomerate<br>slightly carbonaceous sericite rich quartzite<br>gr. lenticular or flaser texture, epiclasts of quartzite flattened, always rounded outlines, alternation of real conglomerate with coarse grained meta sc., disseminated mt throughout | | | | | | | | |
| 237.15 | 237.70 | meta tuffite (basaltic)<br>biotite - sericite - chlorite schist<br>gr to green, fine grained, extremely inhomogeneous, mm to cm layering, alternation of either basaltic volc (predomination) with felsic volcanic and supposely epiclastic material (metapelites or metasiltstones), some rounded fragments of of milky qtz (may be bombs). spotted mt more in the lying part, here too predom. meta sedimentary compounds, py as spots and mm layers or irregular veins throughout (total content 2 Vol-%). | | | | | | | | |
| 237.70 | 238.50 | chert with ex mt (may too be mt seife)<br>slightly carbonaceous quartzite<br>laminated, some rare spots of py | | 80° | | | 238.10 – | 238.30 | fault ? | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

Tverfjellet

| From | To | Description BH - 768 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| 238.50 | 241.40 | milky qtz | | | | | | | | |
| | | massive, sometimes irregular inclusions of | | | | | | | | |
| | | carbonate with mt and giant spots of py, some | | | | | | | | |
| | | flasers or stringers of chlorite schist joined | | | | | | | | |
| | | by carbonate with finest diss of mt, occ | | | | | | | | |
| | | layers of mt | | | | | | | | |
| | | borders to wallrock very irregular but sharp | | | | | | | | |
| 241.40 | 242.00 | quartzite | | | | | | | | |
| | | laminated by sericite, flaser to lenticular | | | | | | | | |
| | | texture sometimes conglomeratic, rare spots | | | | | | | | |
| | | of mt | | | | | | | | |
| 242.00 | 242.60 | milky qtz | | | | | | | | |
| | | see above | | | | | | | | |
| 242.60 | 243.90 | metapelite | | | | | | | | |
| | | biotite bear. chlorite-sericite schist | | | | | | | | |
| | | greenishgr, very inhomogeneous with lenses | | | | | | | | |
| | | of quartzite (clasts), often flaser texture, | | | | | | | | |
| | | some rare spots of mt | | | | | | | | |
| | | 243.80 - 243.90: milky qtz | | | | | | | | |
| 243.90 | 246.00 | metaqtzss | | | | | | | | |
| | | quartzite | | | | | | | | |

Hamar Trykk A/S

| From | To | Description BH - 768 f | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | laminated by sericite, some rare spots of | | | | | | | | |
| | | mt | | | | | | | | |
| ////<br>246.00 | 248.80 | ~~pseudo conglomerate~~ micaceous quartzite | | | | | | | | |
| | | rounded quartzite fragments embedded in a | | | | | | | | |
| | | qtz-rich biotite-sericite matrix, flaser | | | | | | | | |
| | | texture, some very rare spots of mt | | | | | | | | |
| —<br>248.80 | 300.30 | metapelite | | mainly 90° | | | | | | |
| | | biotite-sericite schist | | | | | | | | |
| | | gr, fine grained, widely laminated, porphyric | | | | | | | | |
| | | biotite often randomly orientated, predominately | | | tuffaceous sed: 275.50 - 277.00,<br>285.30 - 285.80,<br>286.15 - 286.70 | | | | | |
| | | homogeneous with wavy or flaser texture, in | | | | | | | | |
| | | places rounded clasts of quartzite, sometimes | | | | | | | | |
| | | conglomeratic interbeds: 256.60 - 256.80, 260.60 - 261.15, 263.20 - 263.60, | | | | | | | | |
| | | 264.00 - 264.10, 264.20 - 264.35, 275.10 - 275.40, | | | | | | | | |
| | | 269.20 - 278.10: spotted mt | | | | | | | | |
| | | 275.40 - 275.50: garnet bearing | | | | | | | | |
| | | idiomorphic garnets of 0.3 cm Ø | | | | | | | | |
| | | towards lying more and more cm to dm metasandstone | | | | | | | | |
| | | interbeds | | | | | | | | |
| ////<br>300.30 | 318.55 | metasandstone | | 90° | | | | | | |
| | | slightly carb. sericite-biotite rich quartzite | | | | | | | | |

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 768 | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | light brownish gr., laminated homogeneous, some | | | | | | | | |
| | | mm interlayers rich in carbonate, often | | | | | | | | |
| | | slightly flaser texture, at hanging often | | | | | | | | |
| | | cm to dm interbeds of metapelites, footwal | | | | | | | | |
| | | section slightly higher in sericite hve often | | | | | | | | |
| | | wavy texture. | | | | | | | | |
| 318.55 | 322.50 | BIF (oxide + silicate facies) | | 85-90° | | | | | | |
| | | cm-alternation of chert (quartzite) and amphibole- | | | | | | | | |
| | | biotite bands rich in mt, mostly sharp boundaries | | | | | | | | |
| | | sometimes slightly gradual, chert layers with | | | | | | | | |
| | | rare needles of amphibole and some spots of | | | | | | | | |
| | | carbonate, finest diss. of mt occasionally. | | | | | | | | |
| | | biotite-mt layers often laminated with | | | | | | | | |
| | | gradual changes in mt and biotite content, | | | | | | | | |
| | | some mm interlayers of carbonate or chert, | | | | | | | | |
| | | in general: some rare spots of py | | | | | | | | |
| | | 319.80 - 320.30: andesitic tuff or silicate facies BIF | | | | | | | | |
| | ⊆ | carbonaceous biotite-sericite-chlorite schist | | | | | | | | |
| | | brownish gr. fine to slightly med grained, | | | | | | | | |
| | | laminated, biotite mainly forming separate | | | | | | | | |
| | | stripes, carbonate accompanies more qtz-rich | | | | | | | | |

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Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 76 ℓ | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | stringers, lenses and laminae | | | | | | | | |
| | | 320.70 - 32125: andesitic tuff (tuffite) or silicate facies BIF | | | | | | | | |
| | ⊆ | see above | | | | | | | | |
| — <br> 322.50 | 348.50 | basalt flow | | 85° | | | | correlates with | | |
| | 322.50 | - 336.70 m <br> plagioclase amphibolite in places plagioclase - | | | | | | bleached basalt | | |
| partly A | | biotite - chlorite rock assemb. (partly altered - leached) | | | | | | from ~~BH~~ - 75 <br> Hjerkinnhø | | |
| | | gn to light gn, medium to slightly coarse grained, | | | | | | | | |
| | | massive to crudely schistose, slightly carbonaceous | | | | | | | | |
| | | mainly as fuzzy bodies of max. 1.0 cm size, | | | | | | | | |
| | | besides that as spots and stringers, lenses, | | | | | | | | |
| | | amphibole in places decomposed to biotite - | | | | | | | | |
| | | chlorite mineral assembl., some rare spots | | | | | | | | |
| | | of py | | | | | | | | |
| | | sometimes tuffaceous intersections rich in biotite | | | | | | | | |
| | | with obvious higher py concentration (1 Vol.-%): 329.50 - 329.65, 332.00 - 332.10, | | | | | | | | |
| | 336.70 | - 347.15 <br> carbonaceous biotite bear. sericite - chlorite schist | | | | | | | | |
| | ⊆ | gn, fine to extremely fine grained, layered, stringers flasers, | | | | | | | | |
| | | lenses of carbonate, porphyric biotite often aligned | | | | | | | | |
| | | with schistosity, interbeds of carb. biotite-qtz-fspar rock | | | | | | | | |
| | | (qtz-keratophyric), mainly homogeneous, sometimes | | | | | | | | |
| | | layers and bands of quartz, some spots of py or po, | | | | | | | | |
| | | spots of il throughout. towards lying some pisolithic amphibole | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

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| From | To | Description BH - 768 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 337.50 - 337.80: BIF oxide facies<br>greenish gr., laminated often with distinct flaser texture, close alternation of chert with or without dusty mt and cummingtonite with or without mt, stringers and laminae of po and py (total sulphide 2 Vol-%) | | | | | | | | |
| | | 339.00 - 339.05: chert<br>irregular spots of py (1 Vol-%) | | | | | | | | |
| | | 339.30 - 339.75: carbonate bear. biotite-sericite qtz-fspar rock<br>gr., fine to slightly medium grained, massive, some rare diss. of py and po | | | | | | | similar to BH-18 and BH-21 | |
| | | 341.20 - 341.25: chert<br>irregular spotted py (1 Vol-%) | | | | | | | | |
| | | 342.15 - 342.20: 〃 | | | | | | | | |
| | | 345.40: qtz-keratophyr<br>irregular spots of py (30 Vol-%) | | | | | | | | |
| | 347.15 | -348.50<br>amphibole schist<br>gn., fine to slightly medium grained, homogeneous, some lenses or irregular features of qtz. | | | | | | | | |

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# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-768 | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| 348.50 | 353.80 | qtz-rich chlorite-sericite schist (may be dacitic tuff) | | | | 85-90° | | | | |
| | | lightgreenish gr, fine grained, layered with | | | | | | | | |
| | | often flaser and lenticular (lapilli tuff) texture, | | | | | | | | |
| | | randomly dm section with porphyric | | | | | | | | |
| | | biotite xc often aligned with schistosity, | | | | | | | | |
| | | spotted mt throughout | | | | | | | | |
| | | 351.95 - 352.00: qtz-keratophyr | | | | | | | | |
| | | disseminated py, 20 Vol.-% | | | | | | | | |
| 353.80 | 354.60 | sericite-biotite rich quartzite (may be qtz-keratophyr) | | | | 90° | | | | |
| | | gr to brownish gr, fine grained, laminated | | | | | | | | |
| | | with occasionally lenticular texture (lapilli tuff), | | | | | | | | |
| | | very scarce garnet bearing (353.80-353.85), | | | | | | | | |
| | | some cm intervals rich in po: 353.35 - 353.60, 353.80 - 353.85 | | | | | | | | |
| 354.60 | 356.00 | biotite-sericite bear. quartzite (may be qtz-keratophyr) | | | | 90° | | | | |
| | | gr, fine grained, slightly laminated often | | | | | | | | |
| | | with flaser texture, in places conglomeratic- | | | | | | | | |
| | | agglomeratic looking | | | | | | | | |
| | | 355.55 - 355.65: py ore | | | | | | | | |
| | | qtz-keratophyr with spotted py (60 Vol-%) | | | | | | | | |
| 356.00 | 358.30 | qtz-rich sericite schist | | | | | | | | |
| | | gr, fine grained with occasionally porphyric | | | | | | | | |

Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 7689 | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | biotite, laminated to well layered, in | | | | | | | | |
| | | places flaser or lenticular texture, | | | | | | | | |
| | | 356.55 - 356.70: several cm bands of massive py ore | | | | | | | | |
| m<br>358.30 | | carbonate bear. qtz-rich biotite - sericite - chlorite schist | | | | | | | | |
| | | lightgreenishgr, fine crystalline with porphyroblasts | | | | | | | | |
| | | of biotite randomly orientated, homogeneous | | | | | | | | |
| | | distributed, carbonate as small spots or | | | | | | | | |
| | | lamina accompanying qtz-bands, | | | | | | | | |
| | | 424.60 - 431.00: conglomerate or agglomerate | | | | | | | | |
| | | rounded clasts / bombs of max | | | | | | | | |
| | | 10cm Ø of milky qtz with carbonate | | | | | | | | |
| | | embedded in a matrix of qtz-rich | | | | | | | | |
| | | biotite - sericite - chlorite schist | | | | | | | | |
| | | biotite mainly as porphyroblasts of max 0.7cm length | | | | | | | | |
| | | randomly orientated (may be pseudomorphic amphibole). | | | | | | | | |
| | | 433.70 - 435.40: conglomerate or agglomerate | | | | | | | | |
| | | see above, here mainly cm | | | | | | | | |
| | | alteration of massive schist | | | | | | | | |
| | | with clastic (?) units. | | | | | | | | |
| | | a o. BH 445.30 | | | | | | | | |

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Tverrfjellet

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE

| From | To | Description BH - 768 f | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | samples : 768 /1 66.60 | | | | | | | | |
| | | 768 / 2 94.60 | | | | | | | | |
| | | 768 / 3 160.00 m | | | | | | | | |
| | | 768 / 4 8775 m | | | | | | | | |
| | | 768 / 5 121.40 m | | | | | | | | |
| | | 768 / 6 200.30 m | | | | | | | | |
| | | 768 / 7 257.25 m | | | | | | | | |
| | | 768 / 8 333.40 m | | | | | | | | |
| | | 768 / 9 343.50 m | | | | | | | | |
| | | 768 / 10 361.60 m | | | | | | | | |
| | | 768 / 11 404.00 m | | | | | | | | |
| | | 768 / 12 426.40 m | | | | | | | | |

Hamar-Trykk A/S

950.50 m
il
il
il
45°
A/c
mt
45°
mt
dac. lap.
mt
dac. lap
dac. lap.
dac. lap
high A/c
high A
70°
60°
lam.
55°
il
55-60°
greenstone
greenschist with interstrat. of bio.-chlo.-seri. schist (similar dacitic tuff)
45°
45-50°
qtz-rich bio. bear. sericite schist
50°
qtz-rich bio.-seri. schist (similar dacitic tuff)
sericite-rich quartzite
50-55°
qtz-rich bio.-seri. schist (similar dacitic tuff)
50°
mt
sericite-rich quartzite
50°
slightl. carb. bio. bear. sericite schist
qtz-rich biotite-sericite schist
45°
qtz-rich sericite schist
mt
mt
mt
35°
mt
mt
pressed conglomerate
mt
35°
mt
sericite schist
mt
35°
pressed conglomerate
30-35°
mt
sericite schist
mt
sericite-rich quartzite
20-35°
mt
sericite schist
10-25°
sericite-rich quartzite
mt
c
mt
sericite schist
mt
0-25°
sericite quartzite
0-10°
sericite schist
0-10°
sericite-rich quartzite

# BH 822

| | |
|---|---|
| 822/1 | 25.50m |
| 822/2 | 60.70 m |
| 822/3 | 90.80 m |
| 822/4 | 127.20 m |
| 822/5 | 170.70 m |
| 822/6 | 244.90 m |
| 822/7 | 275.15 m |
| 822/8 | 340.25 m |
| 822/10 | 454.70m |
| 822/11 | — |
| 822/12 | 486.20m |
| 822/13 | 584.80m |
| 822/14 | 631.75 m |
| 822/15 | 654.80 m |
| 822/16 | 714.50 m |
| 822/17 | 722.40 m |
| 822/18 | 760.40 m |
| 822/19 | 789.50 m |
| 822/20 | 800.50 m |
| 822/21 | 854.40 m |
| 822/22 | 926.00 m |
| 822/23 | 934.00 m |
| 822/24 | 948.30 m |

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

Sample 822/9 between 390 m and 454.70 m

sample 822/11 between 454.7 and 486.2 m

PAGE 1

| From | To | Description BH - 822 D | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | 11.20 | sericite qtz schist to qtzite | | 0-10° | | | | | | |
| | | gr, fine grained, well layered, wavy texture to flaser | | | | | | | | |
| | | texture, some spots of carbonate, spotted mt | << 1 Vol.-% | | | | | | | |
| | | conglomeratic from 8.80 - 9.50 | | | | | | | | |
| 11.20 | 28.00 | slightly carb. sericite schist (phyllite) | | 0-10° | | | | | | |
| | | lightgreenishgr, fine grained, crudely layered, homogeneous | | | | | | | sample 822/1 | 25.50m |
| | | in places cm particles of qtz as lenses or stringers, | | | | | | | | |
| | | spots of carbonate arranged in pearl string features, | | | | | | | | |
| | | very sporadically spots of py, in places spotted carb. (21.95 - 28.00) | | | | | | | | |
| | | gradual passing in sericite quartzite | | | | | | | | |
| 28.00 | 31.00 | sericite quartzite | | | | | | | | |
| | | gr, fine grained, recrystallized, flaser texture, | | | | | | | | |
| | | some spots of carbonate, in places conglomeratic: 28.40 - 29.30m | | | | | | | | |
| 31.00 | 77.00 | quartzite sericite schist (phyllite) | | 0-25° | | | | | | |
| | | gr to lightgreenishgr, laminated, flaser texture to | | | | | | | | |
| | | wavy texture, recrystallized qtz, some rare spots | | | | | | | | |
| | | of carbonate, mainly homogeneous, small scale | | | | | | | | |
| | | zick zack folding obvious throughout may related | | | | | | | sample 822/2 | 60.70m |
| | | to slumping, occasionally spotted mt: 0.1 cm in size conglomeratic features: 50.90 - 52.60 | | | | | | | | |
| | | mt (43.00 - 46.40; 49.40 - 65.00; 70.80 - 71.20 (masses)) | | | | | | | | |
| | C<br>71.20 - 71.80 | carb. (63.80 - 67.40; 71.20 - 73.00) | | | | | | | | |
| | | intermixed some volcanic (felsic) mat. at 71.30 - 71.90 | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 2

| From | To | Description BH - 822 D | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | here mm needles of biotite and high spotted carbonate, | | | | | | | | |
| | | exhalative milieux, high degree in volatiles, | | | | | | | | |
| | | further towards hanging always some biotite | | | | | | | | |
| | | flakes obvious | | | | | | | | |
| ////<br>77.00 | 110.00 | sericite quartzite | 10 - 25° | | | | | | | |
| | | gr, fine grained, recrystallised, lenticula | | | | | | | | |
| | | to flaser texture or wavy texture, mainly | | | | | | sample 822/3 | | 90.80 m |
| | | laminated, homogeneous only randomly | | | | | | | | |
| | | conglomeratic feature (81.40 - 81.60), sometimes | | | | | | | | |
| | | thin sections of serizite schist (86.00 - 86.60, 79.00 - 79.15; 106.40 - 106.70; | | | | | | | | |
| | | in places spots (0.1 cm Ø) of mt, very slightly carbonate, | | | | | | | | |
| | | mt: 105.20 - 106.40; 108.40 - 109.00; 109.60 - 109.80 | | | | | | | | |
| | | occasionally some biotite flakes: 104.80 - 104.90 | | | | | | | | |
| ////<br>110.00 | 116.30 | quartz-rich sericite schist (phyllite) | 20 - 35° | | | | | | | |
| | | lightgreenish gr, fine grained, laminated, homogeneous, | | | | | | | | |
| | | some finest spots of carbonate sometimes bigger | | | | | | | | |
| | | crystal accumulates, biotite flakes (0.1 to 0.15 cm Ø) | | | | | | | | |
| | | obvious from 110.00 - 113.30 | | | | | | | | |
| ////<br>116.30 | 134.00 | sericite quartzite | | | | | | | | |
| | | see 77.00 - 110.00 m | | | | | | | | |
| | | finest spots of carb. 116.30 - 120.40 | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 822 D | Interval From | Interval To | Assays Cu | Assays Mo | Assays Pb | Assays Zn | Assays Au | Assays Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | qtz-rich sericite schist : 120.70 - 121.40 ; 124.80 - 128.30 ; | | | | | sample 822/4 127.20 | | | |
| | | mt : 122.00 - 124.00 ; | | | | | | | | |
| | | bio : 121.55 - 122.00 ; 125.80 - 134.00 sometimes biotite reaching already Vol-%, spotted to | | | | | | | | |
| | | conglomeratic : 124.80 - 126.30 , | | | | | | | | |
| 134.90 | 163.50 | qtz-rich sericite schist (phyllite) | | 30-45° | | | | | | |
| | | lightgreenish gr., fine grained, homogeneous, laminated | | | | | | | | |
| | | with lenticular and flaser texture, only in places | | | | | | | | |
| | | irregular bedding with slump structures or conglomeratic | | | | | | | | |
| | | habit, interlayers of sericite quartzite , occasional | | | | | | | | |
| | | randomly orientated biotite , sometimes finest spots of carb., little carbonaceous | | | | | | | | |
| | | conglomeratic feature: 138.20 - 138.70 , 141.20 - 141.70 , 161.20 - 161.50 | | | | | | | | |
| | | biotite flakes : 134.00 - 137.70 , 140.70 - 163.50 . | | | | | | | | |
| | | sericite quartzite interlayers : 137.70 - 138.70 , 139.30 - 140.70 , 141.20 - 143.50 , 144.40 - 145.50 | | | | | | | | |
| | | mt : 145.10 - 147.20 | | | | | | | | |
| 163.50 | 271.95 | sericite-biotite bearing quartzite , pressed conglomerate | | 35° | | | | | | |
| | | gr. fine grained, recrystallized, laminated with | | | | | | | | |
| | | flaser texture, homogeneous, sometimes translucent qtz, | | | | | | | | |
| | | very slightly carbonaceous finest discs randomly , | | | | | sample 822/5 170.70 m | | | |
| | | biotite dying out towards hanging obvious only towards | | | | | | | | |
| | | about 126.00 m , often conglomerate | | | | | | | | |
| | | mt : 201.30 - 201.40 , 227.90 - 238.30 , 242.40 - 243.60 , 246.60 - 246.80 , | | | | | | | | |
| | | 252.30 - 252.70 , 267.00 - 267.60 , 269.00 - 269.80 , | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 4

| From | To | Description BH - 822 D | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 196.25 - 197.45: carbonate bearing qtz-rich sericite schist (phyllite) | | | | | | | | |
| | | lightgreenish gr, fine grained, very homogeneous, | | | | | | | | |
| | | nearly massive, schistosity 35°, finest diss. | | | | | | | | |
| | | carbonate | | | | | | | | |
| | | 232.55 - 232.85: sericite schist (phyllite) | | | | | | | | |
| | | lightgreenish gr, fine grained, homogeneous, | | | | | | | | |
| | | laminated, schistosity 50°, hanging | | | | | | | | |
| | | wall very irregular border to translucent qtz | | | | | | | | |
| | | may be conglomerate or embedded single | | | | | | | | |
| | | qtz block | | | | | | | | |
| | | 216.00 - 226.70: sericite schist (phyllite) | | | | | | | | |
| | | lightgreenish gr, finegrained, homogeneous, | | | | | | | | |
| | | laminated, some lenticular of flaser | | | | | | | | |
| | | qtz, sporadically some finest spots of | | | | | | | | |
| | | carbonate, some rare spots of mt throughout | | | | | | | | |
| | | 238.30 - 238.90: translucent qtz | | | | | | | | |
| | | 242.30 - 242.40: carb. bear. biotite - sericite schist (phyllite) | | | | | | | | |
| | | lightgreenish gr, fine grained, flaser texture, sometimes | | | | | | | | |
| | | very irregular, spotted biotite (0.1 to 0.15 cm size) | | | | | | | | |
| | | 245.10 - 246.00: biotite - sericite schist (phyllite) | | | | | | | | |
| | | see above. flaser to wavy texture, bio (mainly 0.2 cm size) | | | | | | sample | 822/6 | 244.90m |

Hamar-Trykk A/S

| From | To | Description 3H - 822D | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 251.50 - 252.30: translucent qtz |  |  |  |  |  |  |  |  |
|  |  | 271.80: some rare spots of py |  |  |  |  |  |  |  |  |
| ////<br>271.95 | 309.60 | qtz-rich sericite schist (phyllite) (epiclast sed.) |  | 45° |  |  |  |  |  |  |
|  |  | lightgreenishgrey, fine grained laminated, mainly |  |  |  |  | sample 822/7 275.15 m |  |  |  |
|  |  | very homogeneous, only in places irregular features as |  |  |  |  |  |  |  |  |
|  |  | small scale folding, distortion or fuzzy quartzite, |  |  |  |  |  |  |  |  |
|  |  | occasional lenticular quartzite sometimes as |  |  |  |  |  |  |  |  |
|  |  | stringers or sack-like forms, biotite is occasionall |  |  |  |  |  |  |  |  |
|  |  | obvious, than mainly as 0.2 cm Ø flakes randomly |  |  |  |  |  |  |  |  |
|  |  | orientated, amount reaching max. 1 to 2 Vol-%, occ. grading into qtz-rich sericite schist |  |  |  |  |  |  |  |  |
|  |  | bio: 280.00 - 280.75, 283.25 - 290.00 here occ. very similar to dacitic volcanic (see too sample 822/6) |  |  |  |  |  |  |  |  |
|  |  | 272.00 - 273.20, 294.00 - 295.40 |  |  |  |  |  |  |  |  |
| 309.60 | 335.60 | qtz-rich biotite-sericite schist |  | 60° |  |  |  |  |  |  |
|  |  | lightgreenishgr., homogeneous, only in places fuzzy |  |  |  |  |  |  |  |  |
|  |  | bodies or layers of translucent qtz with |  |  |  |  |  |  |  |  |
|  |  | spots of carbonat, may be quartzite clasts, |  |  |  |  |  |  |  |  |
|  |  | biotite as blasts randomly orientated, |  |  |  |  |  |  |  |  |
|  |  | mat. looks very similar to dacitic volcanic |  |  |  |  |  |  |  |  |
|  |  | 317.00 - 318.00: quartzite (epiclast sed.) |  |  |  |  |  |  |  |  |
|  |  | homogeneous, fine grained with |  |  |  |  |  |  |  |  |
|  |  | small amounts of sericite, only randomly |  |  |  |  |  |  |  |  |
|  |  | some biotite blasts. |  |  |  |  |  |  |  |  |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH- 822 D | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 324.20 – 324.60 : sericite schist (epiclast sed.) | | 50° | | | | | | |
| | | lightgreenish gr, some quartzite interlayers, | | | | | | | | |
| | | in places alternation of quartzite with | | | | | | | | |
| | | sericite schist | | | | | | | | |
| | | 330.30 – 333.20 : slightly carb. biotite bearing sericite schist (epiclast. sed.) | | | | | | | | |
| | | lightgreenish gr, homogeneous, often | | | | | | | | |
| | | laminated, wavy and flaser texture | | | | | | | | |
| | | occasionally obvious, biotite often | | | | | | | | |
| | | aligned schistosity, finer grained than | | | | | | | | |
| | | usual. | | | | | | | | |
| | | 334.20 – 334.85 : qtz-rich sericite schist (epiclast sed.) | | | | | | | | |
| | | see. 324.20 – 324.60 m | | | | | | | | |
| | | sometimes flaser texture | | | | | | | | |
| 335.60 | 357.50 | qtz-rich sericite-schist to sericite quartzite (epiclast sed.) | | 50° | | | | | sample 822/8 | |
| | | lightgreenish gr to gr, laminated with flaser and wavy | | | | | | | | 340.25 |
| | | bedding between qtz and sericite layers, only little | | | | | | | | |
| | | biotite mainly aligned schistosity and fine grained, within hanging more med. grained and randomly oriented, | | | | | | | | |
| | | finest disseminated carbonate (1 Vol %) throughout | | | | | | | | |
| | | spots of mt : 336.50 – 349.40 m | | | | | | | | |
| 357.50 | 380.00 | qtz-rich biotite-sericite schist | | 50°-55° | | | | | | |
| | | lightgreenish gr laminated with lenticular to flaser texture | | | | | | | | |

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-822 D | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | biotite as blasts mainly parallel aligned to schistosity, randomly wild.<br>very similar dacitic tuff | | | | | | | | |
| ////<br>380.00 | 394.30 | qtz-rich biotite bear. sericite schist to biotite bear. sericite quartzite (epiclast sed.)<br>lightgreenishgr, laminated with lenticular and flaser texture, sometimes greater fuzzy bodies of qtz (recrystallized) with finest carbonate. biotite as usual. blasts mainly aligned schistosity, homogeneous. | | | | | | | | |
| | | 380.70 - 381.20: homogeneous milky qtz<br>sharp irregular fractural border, upper border with reworked zone. high carbonaceous. subangular milky qtz and sericite schist. | | | | | | | | |
| ////<br>394.30 | 440.10 | qtz-rich biotite - sericite schist (similar dacitic vulc) | | 50° | | | | | | |
| | | see 357.50 - 380.00, always slightly carbonaceous | | | | | | | sample 822/10 | |
| | | interlayers of extremely schistose sections, biotite flakes | | | | | | | | 454.70 |
| | | and chlo here strongly aligned schistosity, | | | | | | | | |
| | | 410.90 - 412.15: huge bombs (?) clasts (?) of milky qtz<br>very irregular sharp borders some spots and fuzzy carbonate | | | | | | | | |
| | | 428.10 - 428.30: translucent qtz | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 8

| From | To | Description BH-822D | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| m<br>440.10 | 461.00 | qtz-rich biotite bear. sericite schist (epiclast. sed.) | | 45-50° | | | | | | |
| | | lightgreenishgr, laminated with flaser and wavy | | | | | | | | |
| | | texture, in places lenticular feature very | | | | | | | | |
| | | likely pressed conglomerate, slightly carb. | | | | | | | | |
| | | throughout, section with small scale zick | | | | | | | | |
| | | zack and isoclinal folding, highly schistose, | | | | | | | | |
| | | biotite strongly aligned sometimes extremelly | | | | | | | | |
| | | pressed, some spots of py 460.85 m | | | | | | | sample 822/11 | |
| m<br>461.00 | 626.00 | qtz-rich chlorite-amphibole schist (greenschist) (basalt flow) | | 45° | | | obs. actinolitischer | | | |
| | | lightgreenish gr, extr. fine grained, in places medium grained, here massive, laminated with irregular qtz- | | | | | | | amphibole | |
| | | fissuring, often flaser texture, in places fuzzy qtz, occasionally | | | | | | | sample 822/12 | 486.20 |
| | | blasts of biotite and amphibole, homogeneous, in places carbonaceous, tuffaceous sections | | | | | | | 822/13 | 584.80 |
| | | intersections of slightly carbonaceous biotite-chlorite(?)-sericite schist: 471.10 - 471.60, 475.50 - 475.90, | | | | | | | | |
| | | 476.80 - 477.20, 479.30 - 481.50, 491.20 - 509.10 occasional some dm interlayers of greenschist, | | | | | | | | |
| | | 522.60 - 523.20, 525.50 - 525.65, 544.20 - 544.40, 551.00 - 551.40, 561.40 - 561.70, 571.05 - 571.30, 577.40 - 579.30, | | | | | | | | |
| | | milky qtz: 489.60, 491.20, 514.10, ] 584.70 - 586.00, 600.00 - 600.10, 601.80 - 602.30, 613.30 - 613.50, | | | | | | | | |
| | | spots of mt: 621.90 - 622.10, 622.80 - 623.30, | | | | | | | | |
| | | spots of py: 505.40, 514.05, | | | | | | | | |
| | | slightly graphitic: 554.50 - 554.80 | | | | | | | | |
| m<br>626.00 | 639.00 | greenschist / stone | | | | | | | | |
| | | amphibolite | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-822 D | Interval | | Assays | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | From | To | Cu | Mo | Pb | Zn | Au | Ag |
| | | gr. fine grained in places slightly medium grained, | | 55 - 60° | | | | | | |
| | | massive widely schistose, sometimes laminated especially towards hanging, | | | | | | | | |
| | | homogeneous, some finest spots of qtz or carbonate, | | | | | | sample 822/14 | | |
| | | filled vugs, fissures of qtz very rarely, some | | | | | | | 631.75 | |
| | | spots of py | | fault zone ⇅ | | | | | | |
| m<br>639.00 | 940.80 | greenschist with intersections of dacitic tuff and qtz-kera | | 627.70 - 628.80 m<br>629.60 - 630.00 m | | | mylonitization | | | |
| | | mainly basaltic tuff but combination of | | | | | | | | |
| | | flows and tuffaceous sections | | | | | | | | |
| | | amphibolite and plag amphibolite | | 55° | | | | | | |
| | | gn to grgn, fine to extr. fine grained, very occasional | | | 663.00 - 670.50 ≈ [illegible] high biotite | | | | | |
| | | slightly medium grained, schistose, laminated | | | | | | | | |
| | | in sections, often small scale folding very | | | | | | sample 822/15 | | |
| | | irregular, sometimes isoclinal, in places porphyric | | | | | | | 654.80 m | |
| | | sometimes in mm layers<br>biotite, occasional spots of py, sometimes spotted il (lath not orientated): | | | | | | 641.40 - 673.00 m | | |
| | | sometimes chlorite-rich interlayers (mm bands) | | | | | | 846.70 - 876.40 m (spotted) | | |
| | | milky to translucent qtz: 663.30 - 663.50 | | | | | | 892.20 - 900.30 m (spotted)<br>910.80 - 911.00 m | | 〃 |
| | | 688.70 - 691.20: basaltic to andesitic tuff | | | | | | 914.00 - 917.00 m | | 〃 |
| | | slightly carb. qtz-fspar-biotite-chlorite-amphibole schist | | | | | | | | |
| | | gn to brgn, mainly fine grained with blasts of biotite, | | | | | | | | |
| | | always aligned to schistosity, well laminated, | | | | | | | | |
| | | small scale zick-zack folding, | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH 822-D | Interval From | Interval To | Assays Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 700.00 - 706.90: basaltic tuff with idioblasts of | | | 692.60- 696.00 | | | | | |
| | | biotite | | | small fault 696.00 m | | | | | |
| | | 706.90 - 707.20: agglomerate | | | | | | | | |
| | | bombs of homogeneous milky qtz | | | | | | | | |
| | | within amphibole chlorite matrix | | | | | | | | |
| | | 70720 - 707.50: basic lapilli tuff | | 707.50 - 709.45 fault zone | | | | | | |
| | | qtz-lapilli within biotitic matrix, | | | | | | | | |
| | | occasionally some chlorite, | | | | | | | | |
| | | 711.80 - 713.20: intermediate lapilli tuff | | 60° | | | | | | |
| | | carbonaceous qtz-biotite-sericite rock | | | | | | | | |
| | | lightgreenishgr, qtz-lapilli surrounded | | | | | | | | |
| | | by biotite and sericite, inhomogeneous, | | | | | | | | |
| | | well schistose, carbonate as euhedral | | | | | | | | |
| | | to subhedral crystals of 0.5 cm size, | | | | | | | | |
| | | 713.20 - 714.60: qtz-keratophyre | | 60° | | | | | | |
| | | qtz-fspar-biotite schist | | | | | | sample 822/16 | | |
| | | bigr, medium crystalline, laminated, in places | | | | | | | 714.50 m | |
| | | close alternation of biotite or qtz-fspar rich | | | | | | | | |
| | | layers. | | | | | | | | |
| | | 714.60 - 715.50: alternation of basalt with qtz-keratophyre | | | | | | | | |
| | | 717.10 - 717.60: milky qtz | | | | | | | | |
| | | | | | | | | sample 822/17 | | |

722.40 m

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 822 - D | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 724.70 - 726.70: dacitic tuff | | | | | | | | |
| | | qtz-fspar - biotite - sericite - chlorite schist | | | | | | | | |
| | | light gr, fine grained with typical | | | | | | | | |
| | | blasts of biotite mostly orientated | | | | | | | | |
| | | with small scale folding, layered | | | | | | | | |
| | | very wild, some spots of py | | | | | | | | |
| | | 731.90: milky qtz | | | | | | | | |
| | | 733.80 - 734.00: milky qtz (bomb) | | | | | | | | |
| | | 734.00 - 734.30: qtz-keratophyre | | | | | | | | |
| | | biotite-qtz-fspar rock | | | | | | | | |
| | | 734.80: bomb of milky qtz | | | | | | | | |
| | | 735.40: " | | | | | | | | |
| | | 742.30 - 749.80: agglomeratic basalt | | 70° | 749.80 | | | | | |
| lith A | | bombs of milky qtz within biotite - chlorite | | | | | | | | |
| | | schist, interbeds of dacitic lapilli tuff | | | | | | | | |
| high t/c | | (high carbonaceous chlorite - biotite - qtz - fspar rock): | | | | | | | | |
| | | 742.70 - 743.30, 744.10 - 744.40, 748.10 - 748.20, 748.80 - 748.95, 749.20 - 749.80, | | | | | | | | |
| | | 759.50 - 761.10: dacitic lapilli tuff | | | | | | | | |
| high t/c | | high carb. qtz-fspar - biotite schist | | | | | | | | |
| | | bi, very inhomogeneous, small scale | | | | | | | | |
| | | zig-zag folding, biotite as matrix | | | | | | sample 822/18 | | |
| | | for qtz-lapilli | | | | | | 760.40m | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 12

| From | To | Description BH - 822 D | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | 763.60 - 763.70: dacitic lapilli tuff |  |  | 762.80 |  |  |  |  |  |
|  |  | see above |  |  | 773.30 |  |  |  |  |  |
|  |  | 766.70 - 767.15: " |  |  |  |  |  |  |  |  |
|  |  | 773.60: " |  |  |  |  |  |  |  |  |
|  |  | 774.50 - 774.65: " |  |  | 775.00 |  |  |  |  |  |
|  |  | 789.10 - 789.30: " |  |  |  |  |  |  |  |  |
|  |  | 799.90 - 835.10: qtz-keratophyre |  | 794.50<br>45° |  |  |  |  | sample 822/19 |  |
|  |  | slightly carbonaceous biotite-qtz-feldspar rock |  |  |  |  |  |  | 789.50 m |  |
|  |  | brownish gr. fine grained, homogeneous, |  |  |  |  |  |  | sample 822/20 |  |
|  |  | massive and well layered, randomly |  |  |  |  |  |  | 800.50 m |  |
|  |  | fuzzy milky qtz bodies (bombs), |  |  |  |  |  |  |  |  |
|  |  | biotite flakes always aligned |  |  |  |  |  |  |  |  |
|  |  | layering, sometimes idioblasts of |  |  |  |  |  |  |  |  |
|  |  | albite, spotted out although, sometimes rare spots of py |  |  |  |  |  |  |  |  |
|  |  | 807.80 - 808.00: dacitic lapilli tuff |  |  |  |  |  |  |  |  |
|  |  | see above |  |  |  |  |  |  |  |  |
|  |  | 808.50: " |  |  |  |  |  |  |  |  |
|  |  | 808.80 - 809.20: " |  |  |  |  |  |  |  |  |
|  |  | 812.00 - 813.10: " |  |  |  |  |  |  |  |  |
|  |  | 825.70 - 826.70: several bombs of milky qtz |  |  |  |  |  |  |  |  |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description 3H-822D | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 835.50 - 838.00 : agglomeraceous andesite ~~[illegible]~~ | | | | | | | | |
| | A/S | high carbonaceous ~~biotite~~ - sericite - chlorite schist | | | | | | | | |
| | | light gn, fine grained, very inhomogeneous, | | | | | | | | |
| | | rounded bombs of qtz-keratophyr and | | | | | | | | |
| | | milky qtz embedded in biotite - sericite - | | | | | | | | |
| | | chlorite assemblage, giant crystals of | | | | | | | | |
| | | carbonate mainly occurring within | | | | | | | | |
| | | pyroclasts. | | | | | | | | |
| | | 838.00 - 846.70 : qtz-keratophyr | | mostly 45° | | | | | | |
| | | see 799.90 - 835.10 m some dm intersections | | | | | | | | |
| | | of more dacitic mat. (qtz - fspar - biotite - sericite mineral assemb.) | | | | | | | | |
| | | 877.00 - 877.30 : basaltic pyroclastic (lapilli tuff) | | | | | | | sample 822/21 | |
| | | high carb. amphibole - bio - chlorite schist | | mostly 55° | | | | | 854.40 m | |
| | | gn, fine grained with porphyric biotite, | | | | | | | | |
| | | inhomogeneous, flattened qtz lapilli | | | | | | | | |
| | | often accompanied by euhedral | | | | | | | | |
| | | carbonate, layered, in places lamina | | | | | | | | |
| | | of biotite schist interbedded | | | | | | | | |
| | | 879.50 - 882.00 : dacitic tuff towards qtz-keratophyr | | | | | | | | |
| | | slightly carb. sericite - biotite - qtz - fspar rock | | | | | | | | |
| | | brownish gr. mainly fine grained, laminated, | | | | | | | | |
| | | close alternation of mm layers of qtz - fspar | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH-822 D | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|

and biotite, in places slightly
lapilli tuff, some rare spots of
py
890.00: bomb of qtz-keratophyr
890.30 - 917.00: extremely layered (mm to cm scale) — 899.20 - 899.50 m fault zone
inter beds of qtz-keratophyr and
milky qtz, as well as dacitic tuff, some times bombs of — mainly 70°
milky qtz (915.50, 916.00), grading
into dacitic or andesitic tuff sequence
917.00 - 935.00: dacitic tuff — mainly 65°
917.00 - 927.00: biotite bear. qtz-fspar - sericite schist
lightgreenishgr. fine grained, homogeneous, — sample 822/22 926.00 m
some porphyroblasts of biotite aligned
to schistosity, laminated, sporadically
cm interlayers of qtz-keratophyr or
milky qtz, spotted py (2 Vol.-%)
927.20 - 935.00: carbonaceous qtz - fspar-~~[illegible]~~ epidote-biotite-~~sericite~~ schist

brownongr., slightly greenish, laminated,
flaser texture of biotite, randomly
lapilli tuff (932.00 - 932.30, 934.80 - 935.00),
often small scale wavy folding, some
mm and cm interlayers of carbonate ~~milky qtz~~

| From | To | Description BH-822 D | Interval From | Interval To | Cu | Mo | Pb | Zn | Au | Ag |
|---|---|---|---|---|---|---|---|---|---|---|
| | | spots of gr (< 1 Vol %) | | | | | | | sample | 822/23 |
| | | 937.80 - 938.00: dacitic lapilli tuff | | | 937 | 30 | | | 934 | .00 m |
| | | carbonaceous biotite-sericite-qtz-fspar rock | | | | | | | | |
| | | gr.brown, medium grained, lepidoblastic | | | | | | | | |
| | | texture, inhomogeneous, frequent | | | | | | | | |
| | | small scale zig-zag folding | | | | | | | | |
| | | 938.30 - 939.00: dacitic tuff towards qtz-keratophyr | | | | | | | | |
| | | see: 879.50 - 882.00 m | | | | | | | | |
| | | 939.00 - 940.50: andesitic tuff | | mainly | 45° | | | | | |
| | | carbonaceous chlorite-biotite-sericite schist | | | | | | | | |
| | | greengr., fine to medium crystalline, | | | | | | | | |
| | | flaser texture, lamination of biotite or | | | | | | | | |
| | | sericite-chlorite rich bands, flasers, sometimes | | | | | | | | |
| | | milky qtz lenses, some cm interlayers of | | | | | | | | |
| | | basaltic mat., impregnation of py and il (spotted) | | | | | | | | |
| | | 940.50 - 940.60: milky to translucent qtz | | | | | | | | |
| | | 940.60 - 940.80: dacitic lapilli tuff | | | | | | | | |
| | | see 937.80 - 938.00 | | | | | | | | |
| 940.80 | 950.50 | ~~940.80 - 950.00:~~ basaltic tuff (may correlate with BH-10 section I) | | | | | | | | |
| | | slightly carb. amphibole schist | | | | | | | | |
| | | bluishgr., fine and medium grained, | | | | | | | | |

Hamar-Trykk A/S

# DIAMOND DRILL LOG

FOLLDAL VERK A/S

| From | To | Description BH - 822 D | Interval |  | Assays |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | From | To | Cu | Mo | Pb | Zn | Au | Ag |
|  |  | well layered, close alternation of |  |  |  |  |  |  |  |  |
|  |  | either fine grained amphibolite or |  |  |  |  |  |  |  |  |
|  |  | medium grained amphibolite with |  |  |  |  |  | sample 822/24 |  |  |
|  |  | some plagioclase or bands (mm - cm) |  |  |  |  |  |  | 948.30 m |  |
|  |  | of carbonaceous qtz, in places |  |  |  |  |  |  |  |  |
|  |  | interlayers of carbonaceous qtz-fspar-biotite |  |  |  |  |  |  |  |  |
|  |  | schist, finest spots of carb. throughout, |  |  |  |  |  |  |  |  |
|  |  | Gt as spots scattered through (1 to 2 Vol.-%) |  |  |  |  |  |  |  |  |

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