



IKKE KARTLAGT:

Øvre høyre fjerdedel ($\frac{1}{4}$)
av kartblad CH 096.

Nedre høyre fjerdedel av
samme kartblad: bare
kartlagt langs veien.

Heller ikke kartlagt CT 096
eller CJ 097.

På kartblad CG 096 har jeg
markert med en blyant -
strek det området jeg
har vært innenfor...

K. Reister

D E S C R I P T I O N S

O F

O U T C R O P S

N O.

1 - 581

A N D

600 - 711

Folldal Verk A/S, 9.8.1981

Kari Reksten

Pål Wessel

PS. Outcrops with samples are marked with S.

LEGEND

DEPOSITIONAL ROCKS

	GRAPHITESCHIST - PHYLLITE
	MICASCHIST - PHYLLITE
	QUARTZITE
	GNEISSMICASCHIST
	GNEISSMICASCHIST, FELTSPATIC
	AUGENGNEISS
	SPARAGMITE

MAGMATIC ROCKS

	MAFIC LAVA
	MAFIC TUFF
	TRONDHJEMITE
	FELSIC TUFF (KERATOPHYRE)
	ULTRABASIC ROCK
	GABBRO
	MAFIC LAVA, PARTLY BANDED

360° circle

↘ : schistosity

↘ : layering

↗ : axis of folding, anticline

≈ : zone of mylonitization

▲▲▲ : overthrusting

V : Viscaria Alpina

- S 1. Sparagmite. The rock consisted mainly of quartz and some red feldspar. The layering could easily be seen. $\swarrow$ 65° - 16° NW.
2. Sparagmite, as above. $\swarrow$ 65° - 16° NW.
3. Quartzite
4. Quartzite, layered. $\swarrow$ 65° - 40° NW.
5. Quartzite, $\swarrow$ 75° - 10° NW. 10 meters further north we measured $\swarrow$ 80° - 10° NW.
6. Quartzite, $\swarrow$ 80° - 15° NW.
7. Quartzite, $\swarrow$ 5° - 18° SE.
8. Quartzite, $\swarrow$ 145° - 18° NE.
9. Quartzite, with veins and lenses of pure quartz.
 $\swarrow$ 100° - 25° NE.
10. Quartzite, $\swarrow$ 100° - 15° NE.
11. Quartzite, $\swarrow$ 105° - 17° NE.
12. Quartzite, almost pure quartz. $\swarrow$ 95° - 28° NE and $\swarrow$ 115° - 10° NE.
13. Quartzite
14. Quartzite, $\swarrow$ 120° - 20° NE.
15. Quartzite, $\swarrow$ 95° - 20° NE.
16. Quartzite, $\swarrow$ 105° - 40° NE.
17. Quartzite
18. Quartzite
19. Quartzite, $\swarrow$ 105° - 15° NE.
20. Quartzite
21. Augengneiss, layered, with small eyes of red feldspar.
5° - 10° NW. $\swarrow$
22. Augengneiss, $\swarrow$ 120° - 45° NE. It was difficult to make a precise measuring since the outcrop was slightly folded.
- S 23. Sparagmite consisting of red feldspar, some green mica and veins of quartz. Layering/ schistosity could not be seen. It may be a huge block.
24. Augengneiss, $\swarrow$ 105° - 40° NE.
- S 25. Sparagmite, a little different from the previous outcrops.
 $\swarrow$ 110° - 27° NE.
26. Augengneiss, $\swarrow$ 0° - 27° E

27. Augengneiss, several outcrops close to each other.
28. Mafic lava, partly banded, $\swarrow$ 90° - 35° N.
29. Mafic lava, partly banded
30. Quartzite
31. Quartzite, $\swarrow$ 140° - 45° NE and $\swarrow$ 135° - 60° NE.
32. Quartzite, $\swarrow$ 150° - 80° NE.
33. Quartzite
34. Quartzite
35. Quartzite, $\swarrow$ 105° - 50° NE.
36. Quartzite, very folded. It was difficult to measure the axis of folding.
37. Quartzite, folded.
38. Quartzite folded.
39. Quartzite, as above.
- S 40. Micaschist - phyllite, $\swarrow$ 145° - 30° NE.
41. Micaschist - phyllite, $\swarrow$ 155° - 30° NE.
42. Micaschist - phyllite, $\swarrow$ 150° - 50° NE.
43. Quartzite, with mica. $\swarrow$ 120° - 65° NE.
44. Micaschist - phyllite, with sericite. $\swarrow$ 140° - 44° NE.
- S 45. Mafic lava, partly banded. $\swarrow$ 110° - 25° NE.
- S 46. Gabbro
47. Quartzite, $\swarrow$ 145° - 42° NE. The outcrop is very close to no. 29.
48. Quartzite, $\swarrow$ 135° - 60° NE.
49. Quartzite, with mica. Some places it looked just like micaschist. $\swarrow$ 115° - 75° NE.
50. Quartzite, $\swarrow$ 90° - 45° N.
51. Quartzite, $\swarrow$ 65° - 25° NW.
52. Mafic lava, partly banded. $\swarrow$ 0° - 30° E.
53. Mafic lava, partly banded. $\swarrow$ 100° - 25° NE.
54. Sparagmite, with swarms of tiny quartzveins.

55. Sparagmite, stretching 20 meters NE from the road.
56. Sparagmite, partly folded. $\swarrow$ 125° - 35° NE and $\nwarrow$ 95° - 60° SE.
57. Sparagmite, $\swarrow$ 130° - 45° NE.
58. Quartzite, quite pure with no distinct schistosity.
59. Quartzite
60. Quartzite
61. Quartzite, $\swarrow$ 100° - 30° NE.
62. Quartzite, $\swarrow$ 115° - 17° NE.
63. Quartzite, $\swarrow$ 100° - 22° NE.
64. Quartzite, $\swarrow$ 85° - 25° NW.
- S 65. Quartzite, with lots of mica. $\swarrow$ 95° - 33° NE.
- S 66. Zone with mylonite.
67. ~~XXXXXXXXXX~~ Quartzite
68. Augengneiss, with some veins/lenses of quartz.
69. Quartzite, $\swarrow$ 105° - 30° NE.
70. Quartzite, $\swarrow$ 110° - 40° NE.
71. Quartzite, $\swarrow$ 125° - 65° NE.
72. Quartzite, $\swarrow$ 115° - 75° NE.
73. Quartzite, $\swarrow$ 155° - 45° NE.
74. Quartzite, $\swarrow$ 115° - 75° NE.
75. Augengneiss, with large eyes of red feldspar. (1 - 1,5 cm)
76. Quartzite. $\swarrow$ 130° - 30° NE.
77. Quartzite
78. Augengneiss, with smaller eyes than no. 75.
79. Sparagmite
80. Sparagmite, partly folded. $\swarrow$ 100° - 35° NE and $\nwarrow$ 125° - 15° NW.
81. Augengneiss with a zone of mylonite in the southern part of the outcrop. The sparagmite has been pushed over the augengneiss.
(~~see fig. 4~~)
 $\swarrow$ 125° - 30° NE.
82. Augengneiss with small eyes of red feldspar.

83. Augengneiss with small eyes. It looked like mafic lava, partly banded.
84. Augengneiss, with small but distinct eyes. $\swarrow$ 110° - 45° NE.
85. Zone of mylonite in the northern part of no. 84. Augengneiss.
86. Augengneiss, altered to mylonite.
87. Augengneiss, with a much more lighter matrix than the previous outcrops. Zone of mylonite in the north. $\swarrow$ 80° - 30° NW.
88. Mafic lava, partly banded, with a few red eyes of feldspar. $\swarrow\swarrow$ 120° - 50° NE.
89. Gneissmicaschist, ~~WXX~~ feldspatic. $\swarrow$ 120° - 45° NE.
- S 90. Micaschist - phyllite
91. Micaschist - phyllite, $\swarrow$ 110° - 33° NE.
92. Micaschist - phyllite, $\swarrow$ 130° - 35° NE.
93. Micaschist - phyllite, $\swarrow$ 125° - 40° NE.
94. Gneissmicaschist feldspatic, $\swarrow$ 120° - 20° NE.
95. Micaschist - phyllite, $\swarrow$ 130° - 45° NE.
96. Gneissmicaschist feldspatic, $\swarrow$ 120° - 45° NE.
97. Mafic lava, partly banded, $\swarrow$ 110° - 53° NE.
98. Mafic lava, partly banded, $\swarrow$ 120° - 25° NE.
99. Viscaria Alpina
100. Sparagmite
101. Sparagmite, 50 x 50 meters, $\swarrow$ 95° - 38° NE.
102. Viscaria Alpina
103. Sparagmite
104. Viscaria Alpina
105. Quartzite
106. Quartzite
107. Quartzite, $\swarrow$ 110° - 70° NE.
108. Quartzite
109. Augengneiss, $\swarrow$ 105° - 70° NE
110. Augengneiss

- 111. Augengneiss
- S 112. Quartzite, with lenses and veins of quartz.
- 113. Augengneiss, with lenses and veins of quartz.
- 114. Sparagmite, $\searrow$ 45° - 45° NW.
- 115. Augengneiss, $\searrow$ 30° - 35° NW. There were a lot of blocks in the areal, so maybe this one was a block too.
- 116. Augengneiss, $\searrow$ 0° - 30° W.
- 117. Viscaria Alpina.
- 118. Augengneiss, $\searrow$ 60° - 30° NW.
- 119. Augengneiss, $\searrow$ 20° - 30° NW.
- S 120. See fig. 1. There were several outcrops of different types of rocks. The rocks and their schistossities are drawn on the figure. The point * on the drawing is refering to the point no. 120 on the main map.
- S 121. Gneissmicaschist feltspatic, $\searrow$ 75° - 35° NW.
- S 122. Gneissmicaschist, $\searrow$ 70° - 40° NW.
- 123. Mafic lava, partly banded, $\searrow$ 135° - 35° NE.
- 124. Mafic lava, partly banded, $\searrow$ 95° - 35° NE.
- 125. Mafic lava, partly banded, The rock was very massive and had a flinty surface. The banding was hard to detect.
- 126. Gabbro

~~127.~~ Mafic lava, partly banded. $\angle 105^\circ - 25^\circ \text{NE}$
About 50 m west of point 127. $\angle 95^\circ - 30^\circ \text{NE}$

128. Micaschist-phyllite. $\angle 85^\circ - 40^\circ \text{NW}$
About 10 m east of the point: $\angle 55^\circ - 25^\circ \text{NW}$

129. Mafic lava, partly banded. $\angle 80^\circ - 20^\circ \text{NW}$

130. ——— " ——— $\angle 75^\circ - 30^\circ \text{NW}$
About 20 m east of the point: $\angle 95^\circ - 50^\circ \text{NE}$

131. Quartzite. $\angle 75^\circ - 35^\circ \text{NW}$

132. Border between micaschist-phyllite and
mafic lava, partly banded.
Micaschist-phyllite. $\angle 75^\circ - 40^\circ \text{NW}$
The lava: $\angle 75^\circ - 40^\circ \text{NW}$

133. Micaschist-phyllite. $\angle 50^\circ - 43^\circ \text{SW}$ (might be a block.)

134. Mafic lava, partly banded. $\angle 90^\circ - 52^\circ \text{N}$

135. Micaschist-phyllite. $\angle 70^\circ - 50^\circ \text{NW}$

S 136. Mafic lava, partly banded. $\angle 90^\circ - 50^\circ \text{N}$

137. Quartzite. $\angle 100^\circ - 65^\circ \text{NE}$

About 10 m north-east of point 137: $\angle 100^{\circ}-55^{\circ}\text{NE}$

138. Gneiss-micaschist, feldspathic. $\angle 105^{\circ}-50^{\circ}\text{NE}$

139. ———— " ———— $\angle 105^{\circ}-55^{\circ}\text{NE}$

140. Mafic lava, partly banded. $\angle 80^{\circ}-40^{\circ}\text{NW}$

141. Gneiss-micaschist, feldspathic. $\angle 110^{\circ}-40^{\circ}\text{NE}$

142. ———— " ———— $\angle 80^{\circ}-42^{\circ}\text{NW}$

143. ———— " ———— $\angle 105^{\circ}-30^{\circ}\text{NE}$

And 3 Viscaria Alpina.

144. Gneiss-micaschist, feldspathic. $\angle 95^{\circ}-40^{\circ}\text{NE}$

145. ———— " ———— $\angle 85^{\circ}-55^{\circ}\text{NW}$

5-10 m south of point 145: quartzite, $\angle 95^{\circ}-60^{\circ}\text{NE}$

146. Gneiss-micaschist, feldspathic. $\angle 85^{\circ}-60^{\circ}\text{NW}$

147. ———— " ———— $\angle 90^{\circ}-60^{\circ}\text{N}$

148. ———— " ———— $\angle 80^{\circ}-45^{\circ}\text{NW}$

149. Viscaria Alpina. And a concentration of quartz, about 2 m long and $\frac{1}{2}$ m wide.

S 150. Gabbro, 5x5 m. The outcrop-area is a little higher than the surroundings...

151. Gneiss-micaschist, feldspathic. $\approx 90^\circ-50^\circ N$.

152. North-western part of the outcrop:
quartzite.

South-eastern part: Gneiss-micaschist, feldspathic, very rich in mica, and some garnets.

153. Quartzite. $\approx 95^\circ-60^\circ NE$

154. Quartzite, and 2 Viscaria Alpina.

155. Micaschist-phyllite. $\approx 100^\circ-60^\circ NE$. (With garnets...)

156. ————— with garnets. $\approx 100^\circ-55^\circ NE$

S 157. Mylonite.

158. Quartzite. $\approx 105^\circ-70^\circ NE$

159. ————— $\approx 105^\circ-60^\circ NE$

160. —————

161. 3 Viscaria Alpina.

● S 162. Gneiss-micaschist, feldspathic. Without hornblende, -
but with garnets. $\angle 120^\circ - 60^\circ \text{NE}$.

163. Quartzite with garnets. $\angle 110^\circ - 70^\circ \text{NE}$

164. —. —. $\angle 105^\circ - 60^\circ \text{NE}$.

165. —. —. $\angle 110^\circ - 60^\circ \text{NE}$.

● S 166. Mylonite. $\angle 95^\circ - 65^\circ \text{NE}$

Bound by quartzite in the northern part
of the outcrop. Quartzite: $\angle 100^\circ - 55^\circ \text{NE}$.

In the area surrounding the mylonite zone,
I find lots of concentrations of pure quartz...

At point 166 the mylonite zone seems to
be about 10-15 m wide, but west of this
point it seems to vary between 1 m and 2 m...

↑
● S 167. Augengneiss. The northern part is quite clear,
but the southern part seems to be more like
sparagmite or quartzite. Small folded...

168. Augengneiss. (It is surrounded by blocks, but
I think it might be an outcrop, though.)

169. Sparagmite with "augen".

● 170. Augengneiss $\angle 60^\circ - 32^\circ \text{NW}$.

171. More sparagmitic than outcrop no 170. With "augen".

172. Sparagmite with "augen". Schistosity parallel to bedding. $\uparrow$ and $\uparrow$ $77^{\circ}-35^{\circ}$ NW.

173. Sparagmite with "augen". Schistosity parallel to bedding. $\uparrow$ and $\uparrow$ $80^{\circ}-35^{\circ}$ NW.

Outcrops 172 and 173 are vertical walls, about 7 m high. (or more...)

174. Augengneiss. Some local concentrations of sparagmitic material, but mainly dark, mica-rich with "augen".

175. Augengneiss.

176. — " —

177. = ? It might be augengneiss; it is schistous, dark and mica-rich, but with very few "augen". In this material there are some distinct layers of sparagmite, but the "augengneiss-like" material is dominant. $\uparrow$ $100^{\circ}-40^{\circ}$ NE.

178. Sparagmite. Clear schistosity and bedding, but impossible to measure any strike and dip because of small-folding. In the north-western part of the outcrop one might say it is more

• augengneiss-like, with lots of quartz-lenses. (A mess!!)

179. Augengneiss $\neq 80^{\circ}-27^{\circ}$ NW

180. ——— " ———

181. ——— " ———

S(A,B) 182. Mafic lava, partly banded. $\neq 100^{\circ}-25^{\circ}$ SW.
Overlying this is a rock that I don't know.
See samples 182 B and C. This might
eventually be very big blocks...

183. Sparagmite $\neq 90^{\circ}-40^{\circ}$ N

184. ——— " ——— $\neq 95^{\circ}-40^{\circ}$ NE

185. Augengneiss

186. ——— " ——— (Might be blocks, - there are lots of
them in the area...)

187. (This is the same outcrop as no. 217!)
Augengneiss. $\neq 90^{\circ}-55^{\circ}$ N
(There is much sparagmitic material in it, too...)

S 188. I don't know this rock. See samples.
(Might also - although I doubt it - be a block.)
The outcrop is a little bit higher than its

surroundings. 7 m long outcrop. The rock is grey, or maybe blueish, fine grained. With a knife you can make a white line in it...

189. Quartzite. Bedding and ~~sl~~istosity, $\uparrow$ and $\uparrow$ 30° - 60° NW

190. — " — $\uparrow$ 95° - 30° NE

About 10 m to the east: $\uparrow$ 85° - 45° NW

191. Quartzite

192. — " — $\uparrow$ 45° - 15° NW

193. — " —

194. — " —

195. Gneiss-micaschist, feldspatic. $\uparrow$ 70° - 25° NW

196. Quartzite-mylonite. $\uparrow$ 55° - 40° NW

197. Gneiss-micaschist, feldspatic. $\uparrow$ 110° - 20° NE

198. — " — , but not very feldspatic... Very small-folded.

199. Quartzite. $\uparrow$ 110° - 25° NE

- S 200. Sparagmite, mylonitic. A few red eyes of feldspar could be seen in the quartzitic matrix. Veins and lenses of quartz.
201. Viscaria Alpina
- S 202. Sparagmite, $\swarrow$ 95° - 65° NE.
203. Viscaria Alpina
- S 204. Mafic lava, partly banded, $\swarrow$ 110° - 70° NE.
205. Sparagmite, with some red feldspareyes, graded bedding. $\swarrow\swarrow$ 105° - 25° NE.
206. Sparagmite, as above, $\swarrow\swarrow$ 110° - 40° NE.
207. Sparagmite, as above, $\swarrow\swarrow$ 80° - 52° NW.
208. Sparagmite, as above, $\swarrow\swarrow$ 86° - 40° NW.
- S 209. Sparagmite, as above, $\swarrow\swarrow$ 80° - 46° NW.
- S 210. Gneissmicaschist feldspathic, $\swarrow$ 86° - 46° NW.
- S 211. Gneissmicaschist feldspathic, $\swarrow$ 86° - 30° NW.
212. Gneissmicaschist feldspathic, $\swarrow$ 60° - 40° NW.
- S 213. Mafic lava, partly banded. $\swarrow$ 92° - 50° NE.
- S 214. Quartzite. Probably just a quartzitic layer in the surrounding gneissmicaschist feldspathic. $\swarrow$ 80° - 28° NW.
- S 215. Gneissmicaschist feldspathic, $\swarrow$ 90° - 50° N.
- S 216. Gneissmicaschist feldspathic, $\swarrow$ 128° - 26° NE.
217. Sparagmite, $\swarrow\swarrow$ 120° - 30° NE.
218. Sparagmite, $\swarrow$ 50° - 12° NW.
219. Sparagmite, with red eyes. $\swarrow$ 30° - 15° NW.
220. Sparagmite, with eyes.
221. Sparagmite, as above.
222. Sparagmite, with very tiny red eyes. $\swarrow$ 100° - 18° NE.
223. Sparagmite, as above. $\swarrow$ 105° - 18° NE.
224. Sparagmite, with big red eyes (1 - 2 cm). $\swarrow$ 80° - 28° NW.
225. Sparagmite, with smaller eyes than no. 224. $\swarrow$ 88° - 30° NW.
226. Sparagmite, as above. $\swarrow$ 100° - 28° NE.
227. Sparagmite, as above. $\swarrow$ 70° - 32° NW.

- 228. Sparagmite, with small red eyes. $\swarrow$ 88° - 40° NW.
- 229. Sparagmite, the eyes were ~~more~~ more white than earlier.
 $\swarrow$ 80° - 10° NW.
- 230. Sparagmite, with small, white eyes (< 5 mm).
- 231. Sparagmite, with a little bigger eyes than no. 230.
 $\swarrow$ 78° - 8° NW.
- 232. Sparagmite, as above.
- 233. Sparagmite, with medium red eyes. $\swarrow$ 70° - 28° NW.
- 234. Sparagmite, as above. $\swarrow$ 70° - 30° NW.
- 235. Sparagmite, with little, red eyes. $\swarrow \swarrow$ 110° - 38° NE.
- 236. Sparagmite, as above. $\swarrow \swarrow$ 96° - 54° NE.
- 237. Sparagmite, as above. $\swarrow \swarrow$ 90° - 40° N.
- 238. Sparagmite, as above, $\swarrow \swarrow$ 80° - 46° NW.
- S 239. Sparagmite, with augengneiss below. See fig. 2.
- 240. Sparagmite, $\swarrow \swarrow$ 110° - 40° NE.
- 241. Gneissmicaschist feltspatic, $\swarrow$ 90° - 40° N.
- S 242. Mafic lava, partly banded.
- 243. Mafic lava, partly banded. $\swarrow$ 100° - 50° NE.
- 244. Gneissmicaschist feltspatic, $\swarrow$ 140° - 38° NE.
- 245. Gneissmicaschist feltspatic, with tiny crystals of hornblende in a relatively light matrix. $\swarrow$ 140° - 30° NE.
- 246. Gneissmicaschist feltspatic, with crystals of hornblende.
 $\swarrow$ 110° - 40° NE.
- 247. Gneissmicaschist feltspatic, folded. The wavelenght was about 10 cm.
- 248. Augengneiss, with big red eyes ($\leq$ 10 cm) in a matrix of mainly mica and feltspar. $\swarrow$ 50° - 40° NW.
- 249. Augengneiss, the same matrix with smaller eyes (< 1 cm).
- 250. Sparagmite, slightly folded.
- 251. Sparagmite, with a zone of mylonite inbetween. See fig. 3.
 $\swarrow \swarrow$ 90° - 60° N.
- S 252. Gneissmicaschist feltspatic
- S 253. Gneissmicaschist feltspatic, very dark matrix.

- S 254. Gneissmicaschist feltspatic, $\swarrow$ 60° - 40° NW.
- S 255. Mafic lava, partly banded.
- S 256. Mafic lava, partly banded. It could well be a greenschist.
- S 257. Augengneiss, $\swarrow$ 90° - 60° N.
- 258. Augengneiss, $\swarrow$ 90° - 60° N.
- 259. Sparagmite, $\swarrow \swarrow$ 90° - 42° N. There were a lot of blocks in the area between no. 258 and no. 259.
- 260. Sparagmite, $\swarrow \swarrow$ 90° - 50° N.
- 261. Sparagmite, without eyes. $\swarrow \swarrow$ 90° - 42° N.
- 262. Sparagmite, as above. $\swarrow \swarrow$ 100° - 40° NE.
- 263. Sparagmite, as above. $\swarrow \swarrow$ 90° - 40° N.
- 264. Sparagmite, as above. $\swarrow \swarrow$ 90° - 40° N.
- 265. Sparagmite, as above. $\swarrow \swarrow$ 90° - 42° N.
- 266. Sparagmite, as above. $\swarrow \swarrow$ 90° - 60° N.
- 267. Sparagmite, as above, but with little red eyes. $\swarrow \swarrow$ 90° - 40° N.
- 268. Sparagmite, without eyes.
- 269. Augengneiss, with big (1 - 2 cm) red eyes. $\swarrow$ 100° - 36° NE.
- 270. Augengneiss, with little eyes.
- 271. Augengneiss, with big eyes, as no. 269.
- S 272. Sparagmite, $\swarrow \swarrow$ 50° - 58° NW.
- S 273. Gneissmicaschist feltspatic,
- 274. Mafic lava, partly banded. $\swarrow$ 80° - 60° NW.
- 275. Gneissmicaschist feltspatic
- 276. Gneissmicaschist feltspatic
- 277. Augengneiss, with little red feltspateyes in a matrix consisting mainly of mica and some feltspar. $\swarrow$ 90° - 56° N.
- 278. Sparagmite, $\swarrow \swarrow$ 80° - 60° NW.
- 279. Augengneiss, as no. 277. $\swarrow$ 80° - 50° NW.
- 280. Augengneiss, with minute, but distinct red eyes.
 $\swarrow$ 60° - 56° NW.
- 281. Sparagmite, with red eyes. $\swarrow$ 30°(?) - 66° NW.
- 282. Augengneiss, with big eyes ($\approx$ 2 cm). The matrix consisted of mica/feltspar.

283. Sparagmite, strongly folded. ↗ 0° - 40° N.
284. Gneissmicaschist feltspatic
285. Gneissmicaschist feltspatic, ↘ 60° - 42° NW.
286. Mafic lava, partly banded. The banding was not detectible.
287. Gneissmicaschist feltspatic, ↘ 90° - 48° N.
288. Sparagmite, The layering could be seen clearly.
↘ ↘ 100° - 42° NE.
289. Sparagmite, as above. ↘ ↘ 100° - 46° NE.
290. Sparagmite, as above. ↘ ↘ 80° - 46° NW.
291. Sparagmite, reddish. The original texture/structure had vanished.
- S 292. Quartzite, a large outcrop (20 x 20 meters).
- S 293. Quartzite, as above.
294. Ultrabasic rock, Some of the olivine had been altered to serpentine.
295. Quartzite, ↘ 170° - 16° NE.
296. Ultrabasic rock, with a lot of talc.
297. Ultrabasic rock, with some serpentine.
298. Felsic tuff (keratophyre), with big Xtals of hornblende (≈ 1cm).
A lot of small quartzveins. ↘ 45° - 50° NW.
299. Felsic tuff, as above.

300. Gneiss-micaschist, feldspatic. Rich in light mica, sericit. Not particularly much hornblende-crystals... Very small-folded. (Block?)
301. Gneiss-micaschist, feldspatic. Small folded. The outcrop is about 15 m long.
302. Gneiss-micaschist, ^{feldspatic.} Locally very rich in mica. Very small-folded.
303. Micaschist - phyllite. $\approx 110^\circ - 25^\circ \text{SW}$.
304. Outcrop 30 m long. Fault-zone, with quartzite in ~~the~~ the southern part, and gneiss-micaschist, feldspatic, north of and above this. Very small-folded, but I think the main schistosity is: $\approx 140^\circ - 40^\circ \text{SW}$.
305. Sparagmite. Lots of small quartz-concentrations, diameters 2-5 cm.

NYGRUVA.

306. Mafic tuff. Much feldspar in it. Quartz-lenses 1-3 cm diameter. About 1 mm thick layer of felsic tuff-material. $\approx 92^\circ - 73^\circ \text{NE}$.

307. (Excluded!)

308. Layers of mafic and felsic tuff, as shown on the map. Quartz-lens, about 1 m long.
5 m east of this: a ditch, striking north/south, showing at least 10 m of felsic tuff.
The felsic tuff: $\pm 90^\circ - 64^\circ N$.
About 2 m east of this outcrop: a quartz-lens, $\frac{1}{2}$ m long.

309. A long ditch...

Distance from outcrop no. 306 to this ditch, measured along a path striking north/south, is 60 m.

The ditch is striking $N60^\circ E$.

Measured from the path in direction NE along the ditch:

* $\rightarrow 7$ m: covered

* Mafic, green tuff, rich in feldspar and garnets.
 $\pm 85^\circ - 80^\circ NW$

* 8 m: quartz-lenses, diam. 5 cm.

Locally the rock is lighter and more felsic, with distinct hornblende crystals, and looks more like a felsic tuff.

* 18 m: same rock. $\pm 83^\circ - 80^\circ NW$.

* 18-20 m: covered.

* 18 m: Pure quartz, about 10 m^3 , thrown up on side of the ditch...

(...ditch continues...)

- * 20-21 m: the same mafic tuff.
- * 21-29 m: covered.
- * 29-30 m: first the same rock-type as before, very green and with a good lot of hornblende-crystals. Then 10 cm of pure green material, with no visible felsic material or garnets... Then 5 cm which looks quite broken, with lots of garnets and hornblende crystals and quartz-lenses of 2 cm diam. Then 20 cm of felsic tuff.
- * 30-33 m: covered.
- * 33-36 m: southern part of the ditch: felsic tuff.
northern part: mafic tuff with hornblende-crystals and garnets.
- * 36 m: South: felsic tuff overlying mafic tuff.
Between the two: small folded, broken green rock, full of garnets.
North: mafic tuff.
After 36 m: mafic tuff in the southern part of the ditch, too...
- * 37-39 m: pure quartz thrown up on both sides, diam. all sizes up to 10 cm.
- * 36-40 m: mafic tuff.
- * 40 m: 10 cm of felsic tuff on the southern part.
Except from this: mafic tuff. At 40 m it is full of garnets, but further on it is "purer".
95°-80° NE
- * 40-41 m: quartz-lenses, 5-10 cm diam.
- * 40-45 m: mafic tuff.

(...ditch continuing...)

- * 45-46: Mafic tuff, more felsic elements and garnets.
- * 46m: Felsic tuff on the southern part; the northern part covered.
- * 46-49m: covered
- * 49m: felsic tuff on $\frac{2}{3}$ southern part.
- * 50m: (still southern...) more mafic again...
- * 51-53m: covered
- * 53-54m: felsic tuff on southern part.
- * 54-55m: mafic tuff. $\neq 77^\circ-90^\circ$
- * 55-62m: covered, but mafic tuff is thrown up on the sides...
- * 62-64m: North: mafic tuff, $\neq 75^\circ-70^\circ$ NW
- * 62-65m: South: felsic tuff $\neq 90^\circ-80^\circ$ N
- * 64-65m, north: zone of broken ~~rocks~~ ~~rocks~~, $\neq 78^\circ-60^\circ$ NW.
Underlying: mafic tuff, $\neq 78^\circ-60^\circ$ NW
Overlying: felsic tuff.
- * 65-80m: covered, but with mostly mafic tuff thrown to the sides...
- * 80-82m: Small bridge over the ditch...
- * 82-165m: Covered. The material that is thrown to the sides, is now mainly felsic tuff...
- * (165 ± 5) m: About here is the border between felsic tuff and green-shist. There is no outcrop until 240m, but from (165 ± 5) m, pretty pure green-shist is thrown to the sides of the ditch. Though, it still locally contains felsic elements...
- * 240-242m: =? See sample. ~~Massif~~ Massif... Northern part.

310. Mafic lava.

311. Felsic ~~lava~~ tuff.

312. Mafic tuff. $\neq 78^{\circ}-70^{\circ}\text{NW}$.

313. Mafic tuff.

314. Mafic tuff or felsic tuff, mylonitic.

315. Mafic tuff. About 3 m broad band of felsic tuff. $\neq 72^{\circ}-80^{\circ}\text{NW}$.

316. Mafic tuff. $\neq 78^{\circ}-80^{\circ}\text{NW}$.

317. Mafic tuff. $\neq 82^{\circ}-80^{\circ}\text{SE}$.

318. —, —. Fold-axes, $\neq 70^{\circ}-32^{\circ}\text{SW}$.

S 319. Ditch, about 20 m long, striking N 170° E.
Southernmost part: broken zone of felsic tuff,
with lots of quartz-lenses (2-5 cm diam.) and
green mica. Small-folded.

After 1 m of this: felsic tuff, pretty mass. ~~bc~~
about 2 m.

Then 5 m is covered.

Then: lots of quartz-lenses ~~ca~~ (3-10 cm diam.),
area stretching about 50 m northwards

Eastern side: 30 cm zone of mafic
tuff, $\angle 78^\circ - 72^\circ \text{NW}$.

North of this: 4 m felsic tuff.

Then 10 m with a rock that is probably
also felsic tuff. It is light and mica-rich
and contains garnets and feldspar.

$\angle 63^\circ - 70^\circ \text{NW}$.

North of this zone: 2 m of felsic tuff,
 $\angle 70^\circ - 80^\circ \text{NW}$.

S 320. Mafic tuff. Small-folded. Quartz-lenses 2-10 cm diam.

321. Felsic tuff. Concentration of pure quartz,
1 m long and 10-20 cm wide...

322. Felsic tuff. $\angle 90^\circ - 75^\circ \text{S}$.
Concentrations of pure quartz, 2-10 cm diam.

323. Felsic tuff. $\angle 90^\circ - 70^\circ \text{S}$.

324. 3 Viscaria Alpina.

325. Mafic or felsic tuff. Rich in hornblende - crystals...

326. Felsic tuff. $\approx 90^\circ - 80^\circ S$
About 10 m NE of this: felsic tuff with pure quartz, about 3 cm diam.

327. Felsic tuff, rather weathered. Surface is partly white, partly red-brownish...

328. Felsic tuff.

329. Mafic tuff. $\approx 70^\circ - 80^\circ NW$

330. Felsic tuff. $\approx 90^\circ - 85^\circ S$
Lots of viscaria alpina in the area, because of the little stream that is passing. (It is coming from the mine...) Concentrations of pure quartz all over the place; the biggest one $1\frac{1}{2}$ m long and 50 cm wide.
The outcrop is about 40×20 m.

331. Felsic tuff. Outcrop 10×30 m

332. — — — $\approx 90^\circ - 83^\circ S$.

333. Felsic tuff. (Outcrop also a little NE of this.)

334. — " —

335. — " —

336. — " — A little more mafic. Very schistous
90°-80°S.

337. — " —

338. — " — 3 Viscana Alpina.
Quartz-lenses 1-10 cm diam.

339. Mafic tuff.

340. Felsic tuff. # 105°-85°NE

341. — " — . Partly more mafic.

342. Mafic tuff. Lots of pure quartz.

343. Altered mafic tuff. Quartz-lens 7 cm diam.
Partly schistous, but not measurable.

344. (Excluded!)

345. Mafic tuff. Small-folded, with concentrations of quartz and feldspar. Partly schistous.
Quartz-lenses 1-5 cm diam.

346. Felsic tuff. $\angle 83^\circ - 70^\circ \text{NW}$
Quartz-lenses 10 cm - 1 m long.
20 m north of this point: more mafic material, "main schistosity": $\angle 75^\circ - 65^\circ \text{NW}$.
(But rather small-folded...)

347. Felsic tuff. Quartz-lenses, diam. $\rightarrow 30$ cm.
 $\angle 83^\circ - 70^\circ \text{NW}$.

348. Felsic tuff.

S 349. ———. Concentrations of quartz,
diam. $\rightarrow 20$ cm.

In the northern part of the point the rock turns more massive, and it is mapped as Trondhjemite. The southern part is schistous, though, with $\angle 90^\circ - 85^\circ \text{N}$.

The whole outcrop is about 40 x 40 m.

S 350. Felsic tuff ~~or Trondhjemite~~ Quartz-lenses with
diam. $\rightarrow 70$ cm.

Felsic tuff.

351. ~~Trondhjemite~~. Locally $\angle 90^\circ - 80^\circ \text{N}$. Quartz-vein
1 m long and 10-30 cm wide.

(Lots of quartz-concentrations in the area...)

352. Trondhjemite. Local $\pm 60^\circ-57^\circ\text{NW}$.

S 353. Felsic tuff. Quartz-vein, $\frac{1}{2}\text{m}$ long, 30cm wide.

354. ———. Lots of garnets!

355. ———.

356. ———. Quartz-lenses, diam. 2-10 cm.

357. ———.

358. ———.

359. Mafic tuff. Green, much feldspar, small-folded.

S 360. ———, garnets.

The outcrop is a wall 20 m long and 4 m high. Main- $\pm 80^\circ-65^\circ\text{NW}$.

Lots of quartz-lenses or -eyes, diam $\rightarrow 30\text{cm}$.
About 20 m east of the wall (the wall strikes north/south...): $\pm 75^\circ-75^\circ\text{NW}$.

361. Felsic tuff. $\pm 80^\circ-85^\circ\text{NW}$.

362. ———. $\pm 70^\circ-55^\circ\text{NW}$.

Quartz-lens 40 x 40 cm.

S 363. Trondhjemite.

S 364. ———

365. Felsic tuff. $\approx 85^\circ - 80^\circ \text{NW}$.
Quartz-lenses, diam. $\rightarrow 70 \text{ cm}$.

366. Mafic tuff. $\approx 75^\circ - 80^\circ \text{NW}$

S 367. Outcrop is a wall 30 m long and 5-7 m high. The lower part is mass. ~~de~~ finegrained and green, - the upper part is more schistous and smallfolded, and is a typical mafic tuff. I map the lower part as a mafic lava...
(+367, B) The main schistosity of the tuff: $\approx 120^\circ - 45^\circ \text{NE}$.

368. Mafic tuff.

S 369. ——— $\approx 90^\circ - 25^\circ \text{N}$.
Quartz-lenses, diam. $\rightarrow 50 \text{ cm}$.

S 370. Mafic tuff. Locally more and less feldspar.
 $\approx 110^\circ - 30^\circ \text{NE}$.

371. Mafic tuff, containing much feldspar.

S 372. Quartzite. 2 m wide and 30 m long "stripe" that is about 1 m higher than the surroundings.
 $\approx 75^\circ - 60^\circ \text{NW}$.

373. Mafic tuff. Locally it completely lacks visible feldspar. (Main- $\approx 50^\circ-50^\circ \text{NW}$)

374. Mafic tuff with bands of felsic tuff.
The southern part of the outcrop: felsic tuff.
 $\approx 80^\circ-85^\circ \text{NW}$.

375. Felsic tuff with bands of mafic tuff.
 $\approx 80^\circ-75^\circ \text{NW}$.

376. Mafic tuff, partly very silica-rich and
~~alteritised~~ ^{alteritised}. Weathering-surface is red-brownish.
 $\approx 77^\circ-90^\circ$.

377. Mafic lava.

378. Mafic tuff. $\approx 115^\circ-35^\circ \text{NE}$ (Measured in the
northernmost part of the outcrop.)
30 m south of this: $\approx 100^\circ-35^\circ \text{NE}$.

379. Mafic tuff. $\approx 70^\circ-50^\circ \text{NW}$.

380. Mafic tuff. $\approx 105^\circ-50^\circ \text{NE}$
Quartz-lens 50 cm long.

381. Mafic tuff. $\approx 85^\circ-60^\circ \text{NW}$.

382. 5 *Viscaria alpina*.

383 Mafic lava.

S 384. Mafic tuff. $\approx 95^\circ - 55^\circ \text{NE}$ (maybe somewhat varying...)

385. Mafic tuff. ~~$\approx 90^\circ - 27^\circ \text{N}$~~ . (Varying. Slightly folded)

S 386. Mafic tuff. Strongly folded, fold-axes $\approx 30^\circ - 30^\circ \text{NE}$.
Quartz-lenses in the folded zone, $\rightarrow 50 \text{ cm}$ long.
The folded zone is about 2 m wide. East and west (on both sides) of the zone, and also 4 m south of and lower than it, the schistosity is $\approx 100^\circ - 30^\circ \text{NE}$.

About 20 m south of the folded zone is a very light green, mica-rich rock, which I map as a mafic tuff, also. (Dips NE.)

387. Mafic tuff.

388. Quartzite. Locally very mica-rich. $\approx 75^\circ - 40^\circ \text{NW}$.
Quartz-lenses, diam. $\rightarrow 50 \text{ cm}$.

389. Mafic tuff. $\approx 90^\circ - 50^\circ \text{N}$.
Quartz-lenses, diam. $\rightarrow 70 \text{ cm}$.

S 390. Felsic tuff westwards from the point, and mafic tuff eastwards.

391. Micaschist - phyllite. $\approx 90^\circ - 40^\circ N$.

Very schistous. 5-20 cm thick layers of a black material that might be graphite-schist. (also $\approx 90^\circ - 40^\circ N$) Garnets.

Quartz-lenses, diam. $\rightarrow$ 20 cm.

392. Mafic tuff. $\approx 100^\circ - 40^\circ NE$.

393. Micaschist - phyllite. $\approx 85^\circ - 40^\circ NW$.

394. = ? Looks like something between mafic tuff and micaschist - phyllite. Locally lots of garnets. $\approx 90^\circ - 35^\circ N$.

395. Mafic tuff.

396. Trondhjemite. Outcrops also 20 m north and 30 m west of the point.

397. Trondhjemite. Very light, and with almost no dark minerals in the northern part of the outcrop. The southern part is darker, with quite a lot of hornblende-crystals. Very massive.

398. Trondhjemite. I don't know ~~whether~~ it is bedding or not, but the the rock is all through the outcrop broken along certain surfaces with strike and dip $55^\circ - 60^\circ NW$.

I am a little in doubt, because to me it seems to be both massive and bedded at the same time...

399. Trondhjemite with garnets.

400. Felsic tuff, with large Xtals of hornblende (≈ 1 cm).
- S 401. Felsic tuff, folded. It was rather difficult to measure the trend and plunge of the axis of folding.
402. Felsic tuff, folded, with some tiny veins of quartz.
- S 403. Mafic tuff, with alternating dark/light layers. Many folds with amplitude and wavelength of about 1 - 2 cm were observed.
 160° - 40° NW.
404. Felsic tuff, penetrated by a 1 meter wide quartz dike that strikes about 60°.  110° - 78° NE.
405. Felsic tuff,  60° - 62° NW.
406. Felsic tuff, as above.
407. Mafic tuff, folded with veins of quartz.  120° - 30° NW.
408. Mafic tuff, with minute amounts of ore, folded.
 120° - 36° NW.
409. Mafic tuff, dark green with local banding and some quartz veins.
 110° - 54° NE.
410. Felsic tuff, with Xtals of hornblende and garnet (Almandine).
411. Felsic tuff, with large Xtals of hornblende and garnet.
412. Felsic tuff,  70° - 70° NW.
413. Felsic tuff, folded.
414. Felsic tuff,  80° - 60° NW.
415. Felsic tuff, folded but difficult to measure the trend and plunge because of the form of the outcrop.
416. Felsic tuff,  80° - 70° NW.
417. Mafic tuff, light green with Xtals of hornblende. 1 small vein of quartz.
418. Mafic tuff, with tiny, but distinct garnets.  90° - 56° N.
- S 419. Mafic tuff, with small felsic layers in between. Several veins of quartz were observed (width 1 cm).  90° - 60° N.
- S 420. Mafic tuff. The outcrop consisted mainly of pyroclastic green schist with layers of felsic tuff and quartz.
 90° - 70° N.
- S 421. Mafic tuff, as above.
422. Mafic tuff, with Xtals of hornblende.
423. Felsic tuff, with Almandine garnets.  70° - 58° NW.
424. Micaschist - phyllite,  80° - 70° NW.
425. Micaschist - phyllite  72° - 38° NW.

- 426. Micaschist - phyllite, $\swarrow$ 50° - 46° NW.
- 427. Mafic ^{Tuff}~~lava~~, $\swarrow$ 60° - 75° NW.
- 428. Mafic ^{Tuff}~~lava~~, as above.
- S 429. Mafic ^{Tuff}~~lava~~, very schisty. $\swarrow$ 80° - 30° NW.
- 430. Gabbro
- S 431. Gabbro
- 432. Gabbro
- 433. Mafic tuff, with a 20 cm wide lens of quartz. $\swarrow$ 80° - 66° NW.
- 434. Mafic tuff, as above. $\swarrow$ 58° - 56° NW.
- S 435. Felsic tuff
- 436. Mafic tuff, 10 meters south of no. 435. $\swarrow$ 80° - 44° NW.
- 437. Mafic tuff. $\swarrow$ 85° - 58° NW. Some amounts of mica.
- S 438. Mafic tuff,
- S 439. Mafic lava, very massive, $\swarrow$ 88° - 56° NW.
- S 440. Mafic tuff, with Xtals of hornblende and quartzveins. Folded.
- 441. Mafic tuff, with some felsic layers inbetween.
- S 442. Mafic tuff, with considerable amounts of hornblende.
- S 443. Mafic tuff, with quartzlenses. $\swarrow$ 58° - 40° NW.
- S 444. See fig. 4. The outcrop consisted of Mafic tuff with a 5 meter thick layer of graphiteschist - phyllite. Schistositities are written on the figure. The point refers to the point 444 on the main map.
- 445. Mafic tuff, $\swarrow$ 60° - 46° NW.
- S 446. Mafic tuff, folded at some places. $\swarrow$ 50° - 38° NW.
- 447. Felsic tuff, $\swarrow$ 55° - 70° NW.
- 448. Felsic tuff, with almandine garnets.
- S 449. Mafic tuff, quite dark with mica. Some small lenses of quartz. $\swarrow$ 60° - 66° NW.
- 450. Mafic tuff, with lenses and veins of quartz. $\swarrow$ 50° - 54° NW.
- 451. Mafic tuff, with veins and lenses of quartz. $\swarrow$ 48° - 68° NW. The outcrop was about 10 x 10 meters. in crossection.

- 452. Mafic tuff, with lenses and veins of quartz. ✗ 60° - 60° NW.
- S 453. Mafic tuff, dark with banding. ✗ 68° - 62° NW.
- 454. Mafic tuff, as above, but with quartzitic layers.
✗ 70° - 64° NW.
- 455. Mafic tuff, as above. Alternating light/dark layers.
✗ 68° - 54° NW.
- 456. Felsic tuff, light grey with some hornblende. ✗ 75° - 70° NW.
- 457. Mafic tuff, but looked like greenschist. ✗ 70° - 66° NW.
- 458. Mafic tuff as above but with some Xtals of hornblende.
75° - 62° NW.
- S 459. Mafic tuff, as above
- 460. Felsic tuff with big Xtals of hornblende (1 - 1,5 cm).
The outcrop was slightly folded. ✗ 90° - 72° N.
- 461. Mafic tuff, very weathered outcrop. ✗ 60° - 70° NW.
- 462. Felsic tuff, with Xtals of hornblende. ✗ 50° - 72° NW.
- S 463. Mafic tuff, very massif, no schistosity.
- 464. Mafic tuff, ✗ 74° - 72° NW.
- 465. Mafic tuff, as above.
- S 466. Mafic tuff, ✗ 70° - 56° NW.
- S 467. Mafic tuff, no schistosity.
- 468. Mafic tuff, ✗ 60° - 56° NW.
- S 469. Mafic tuff, with some mica. Alternating light/dark layers.
✗ 80° - 80° NW.
- S 470. Gabbro, massif and no schistosity.
- 471. Felsic tuff, with some dark layers. Maybe it is a block?
✗ 80° - 72° NW.
- 472. Felsic tuff, very light, ✗ 75° - 50° NW.
- 473. Gabbro, massif.
- 474. Gabbro, as above.
- 475. Felsic tuff, with some mafic layers inbetween. ✗ 60° - 70° NW.
- S 476. Felsic tuff, as above, containing quartzveins about 5 - 10 cm
wide and some lenses with the same dimensions. High content
of mica. ✗ 70° - 64° NW.
- 477. Mafic tuff, with mica and tiny Xtals of hornblende. The
outcrop was folded and veins of quartz could be seen.
✗ 75° - 72° NW.

- S 478. Felsic tuff, with veins and layers of quartz. Folded
↗ 160° - 62° NW.
479. Felsic tuff, with quartzveins. ↘ 55° - 72° NW.
480. Felsic tuff, with quartzitic layers and some hornblende.
Lots of small folds. ↗ 120° - 50° NW.
- S 481. Mafic tuff, light. Small folds, ↗ 120° - 70° NW.
- S 482. Mafic tuff, very green and homogen. ↘ 55° - 66° NW.
483. Felsic tuff, with garnets and veins/lenses of quartz, folded.
- S 484. Mafic tuff, with a few quartzveins.
485. Mafic tuff, folded. ↗ 110° - 50° NW.
486. Mafic tuff, as above folded. ↗ 110° - 46° NW.
487. Felsic tuff, a large outcrop (110 x 40 meters).
↘ 60° - 70° NW.
488. Felsic tuff, as above. ↘ 60° - 68° NW.
489. Felsic tuff, as above. ↘ 80° - 74° NW.
490. Felsic tuff, folded, ↗ 115° - 56° NW.
491. Mafic tuff, lighter green, folded.
- S 492. Mafic tuff, homogen. ↘ 60° - 72° NW.
- S 493. Mafic tuff, with mica. ↘ 76° - 80° NW.
- S 494. Mafic tuff, more coarse - grained. ↘ 45° - 52° NW.
495. Mafic tuff, as above, ↘ 70° - 68° NW.
496. Mafic tuff, ↘ 90° - 58° NW.
497. Mafic tuff, with Xtals of hornblende. ↘ 100° - 80° NE.
498. Mafic tuff, with some felsic layers inbetween. ↘ 50° - 66° NW.
499. Felsic tuff, surrounded by mafic tuff. See fig. 5.

500. Trondhjemite with garnets.

501. ————— " —————

502. Trondhjemite.

503. ————— " —————

504. ————— " —————

505. ————— " —————. (It looks a little bedded, though...)

506. Felsic tuff. In between there is some mafic tuff, too. At some places it is more massive (It is rather difficult to distinguish between felsic tuff and Trondhjemite here...)

507. Mapped as Trondhjemite. Might be felsic tuff, because it looked a little bedded. But it was rather quartz-rich, and, I think, massive, too...

508. Micaschist-phyllite. Some places quartzitic. Quartz-lens or -vein: 5m long and 20cm - 1½m wide. $\approx 90^\circ - 50^\circ N$.

509. Quartzite. Mica-rich. $\approx 95^\circ - 30^\circ NE$

510. Varies very much between clear quartzite and obvious micaschist-phyllite.
 $\nabla 65^{\circ}-30^{\circ}\text{NE}$.

511. Mapped as micaschist-phyllite. Might say it is very mica-rich quartzite. Further south it is more obvious quartzite. $\nabla 100^{\circ}-50^{\circ}\text{NE}$.

All over the area: Lenses or veins of pure quartz, diam. $\rightarrow 1\text{m}$.

512. Micaschist-phyllite. $\nabla 75^{\circ}-35^{\circ}\text{NW}$.

S 513. Broken mafic tuff? Varying schistosity, but main-schistosity is $\nabla 80^{\circ}-45^{\circ}\text{NW}$.

S 514. Ultramafic "Soap-stone". Outcrop $5 \times 5\text{m}$.
 $\nabla 70^{\circ}-40^{\circ}\text{NW}$. (!)

515. Something between mafic and felsic tuff.
 $\nabla 75^{\circ}-50^{\circ}\text{NW}$.

516. Micaschist-phyllite. Small folded.

517. Mafic tuff. $\nabla 70^{\circ}-40^{\circ}\text{NW}$.

518. — " — $\nabla 65^{\circ}-30^{\circ}\text{NW}$.

519. Ultramafic rock. "Soap-stone".

520. Very mica-rich quartzite. $\approx 65^\circ-58^\circ \text{NW}$.

521. Ultramafic rock, "soap-stone".

522. Mafic tuff. Small-folded.

523. ——— Very mica-rich and light green.
Small-folded.

524. Mafic tuff.

525. —, —

526. —, —

527. Quartzite.

528. Mafic tuff. $\approx 105^\circ-24^\circ \text{NE}$

529. Micaschist-phyllite.

530. Mafic tuff. $\approx 95^\circ-50^\circ \text{NE}$.

531. Micaschist-phyllite. $\approx 85^\circ-35^\circ \text{NW}$

532. Felsic tuff, but with a good lot of hornblende-crystals... Pretty massive.

533. Mafic tuff. $\approx 75^\circ - 30^\circ \text{NW}$.

534. Micaschist-phyllite. $\approx 100^\circ - 55^\circ \text{NE}$

535. ————
 $\approx 95^\circ - 30^\circ \text{NE}$
About 50 m further down
the "stream": $\approx 95^\circ - 55^\circ \text{NE}$

All over the area:
Quartz-lenses with
diam. $\rightarrow 1 \text{ m}$.

536. Mafic tuff that overlies
micaschist-phyllite.
 $\approx 90^\circ - 60^\circ \text{N}$.

537. Seems to be a fault-zone, striking $\text{N } 120^\circ \text{E}$.

Dip varies around the vertical.

Altered, chloritized mafic tuff.

Quartz-lenses with diam. $\rightarrow 1 \text{ m}$.

About 50 m NE of point 537: strike is $\text{N } 90^\circ \text{E}$.

Dip still varying around the vertical.

Further 20 m to the NE from here, the
strike is $\text{N } 110^\circ \text{E}$.

538. Some felsic flow-material, mapped as
felsic tuff. Very hard and massive.

539. Wall, 3 m high.

Lower part: mafic tuff

Upper part: felsic tuff. $\approx 64^\circ - 40^\circ \text{NW}$.

10 m N of this, on the other side of the "stream": mafic tuff. Very light-green and mica-rich. Small folded.

540. Mafic tuff. $\approx 80^\circ - 45^\circ \text{NW}$.

Very schistous. Pretty mica-rich.

S 541. Eastern part of the outcrop: Broken mafic tuff with large hornblende crystals.

Western part: more fine grained, schistous green tuff. $\approx 40^\circ - 55^\circ \text{NW}$.

542. Mafic tuff. $\approx 115^\circ - 62^\circ \text{NE}$. (northernmost part.)

Further south: more massive, and mapped as mafic lava.

543. Mafic tuff. Small-folded, but main schistosity seems to be about $\approx 80^\circ - 50^\circ \text{NW}$. (This is measured in the south-western part of the outcrop.) Some places more felsic tuff. Some quartz-lenses, diam. $\rightarrow$ 50 cm.

Fold axis: $\approx 20^\circ - 70^\circ \text{NE}$.

Easternmost part of the outcrop: $\approx 75^\circ - 60^\circ \text{NW}$

544. Mafic tuff with large hornblende crystals. $\approx 80^\circ - 45^\circ \text{NW}$

545. Felsic tuff. $\approx 75^\circ - 52^\circ \text{NW}$

546. Felsic, chloritized tuff. $\approx 60^\circ - 50^\circ \text{NW}$.

Quartz lenses $\rightarrow 50 \text{ cm}$.

Outcrop is 100 m long.

Eastern end of it: fold-axis $\approx 90^\circ - 60^\circ \text{W}$

547. Mafic tuff. $\approx 80^\circ - 80^\circ \text{NW}$.

548. ——— $\approx 80^\circ - 90^\circ$

Partly very felsic. Well developed hornblende-crystals. Outcrops also ~~W~~ and NW of the point.

549. Mafic tuff. $\approx 65^\circ - 90^\circ$

550. — , — $\approx 65^\circ - 60^\circ \text{NW}$.

Quartz-lens, diam. 20 cm.

Outcrop also 50 m further W.

551. Mafic tuff. $\approx 75^\circ - 80^\circ \text{NW}$.

552. Felsic tuff. (although it contains pretty much dark material). $\approx 80^\circ - 70^\circ \text{NW}$.

553. Mafic tuff. $\approx 75^\circ - 80^\circ \text{NW}$.

Looks very broken, containing much quartz and mica, and with quartz-lenses $\rightarrow 40 \text{ cm}$.

554. Mafic tuff. $\approx 50^\circ - 67^\circ$ NW.

555. Felsic tuff. $\approx 85^\circ - 75^\circ$ NW

556. Trondhjemite.

557. Layered felsic and mafic tuff.

558. Southern part: felsic tuff.
Northern part: felsic and mafic tuff in
a great mess.

559. Mafic tuff. $\approx 75^\circ - 65^\circ$ NW

560. Massive Trondhjemite.

561. Felsic tuff. $\approx 70^\circ - 65^\circ$ NW.
Zone full of garnets and mica.

562. Trondhjemite.

563. Felsic tuff. $\approx 70^\circ - 65^\circ$ NW
Lower part: mafic tuff.

564. Mafic tuff. $\approx 70^\circ - 65^\circ$ NW
Veins of quartz $\rightarrow$ 30 cm.

565. Mafic tuff. $\approx 45^\circ - 40^\circ$ NW.

566. Trondhjemite.

567. Felsic tuff in the upper part.
Mafic tuff in the lower part. $\approx 70^\circ - 50^\circ \text{NW}$.

568. Mafic tuff. $\approx 65^\circ - 60^\circ \text{NW}$.

569. Felsic tuff. $\approx 70^\circ - 60^\circ \text{NW}$.

570. A mass of mafic and felsic tuff. $\approx 55^\circ - 60^\circ \text{NW}$.

571. Felsic tuff. $\approx 110^\circ - 60^\circ \text{SW}$.

572. — " — Quartz-lens, 40 cm diam.

573. Mafic tuff. $\approx 80^\circ - 75^\circ \text{NW}$

574. — " — $\approx 85^\circ - 80^\circ \text{NW}$

575. — " — $\approx 70^\circ - 80^\circ \text{NW}$

576. — " — $\approx 70^\circ - 70^\circ \text{NW}$

577. Micaschist-phyllite. $\approx 80^\circ - 50^\circ \text{NW}$

578. Mafic tuff. $\approx 80^\circ - 60^\circ \text{NW}$
(although pretty small-folded...)

579. Mafic tuff. $\approx 60^{\circ}-65^{\circ}$ NW

580. Micaschist-phyllite. $\approx 50^{\circ}-60^{\circ}$ NW

581. ————— $\approx 70^{\circ}-60^{\circ}$ NW.

- 600. Mafic tuff, with lots of hornblende.
- 601. Mafic tuff, with some mica. $\swarrow$ 54° - 54° NW.
- 602. Mafic tuff, with veins of quartz + some massif layers of greenschist inbetween. $\swarrow$ 80° - 42° NW.
- 603. Mafic tuff, with great fissibility.
- 604. Mafic tuff, $\swarrow$ 70° - 66° NW.
- 605. Mafic tuff, $\swarrow$ 70° - 66° NW.
- 606. Mafic tuff, with quartzlenses, folded.
- 607. Mafic tuff, folded.
- 608. Mafic tuff, folded. $\nwarrow$ 120° - 40° NW.
- 609. Mafic tuff, slightly folded.
- S 610. Mafic tuff, with alternating layers of light/ dark tuff.
- 611. Mafic tuff, folded.
- 612. Felsic tuff.
- 613. Mafic tuff, with feldspar. $\swarrow$ 60° - 80° NW.
- 614. Mafic tuff, with a lot of hornblende., $\swarrow$ 90° - 60° N.
- 615. Mafic lava, massif, but breaks into 2 - 3 cm thick sheets.
 $\swarrow$ 68° - 74° NW.
- 616. Mafic tuff, schisty, $\swarrow$ 85° - 60° NW.
- 617. Felsic tuff, with tiny Xtals of hornblende and garnet ($\leq$ 5 mm).
Some quartzlenses about 5 cm across. $\swarrow$ 60° - 48° NW.
- 618. Felsic tuff, with garnets and some thin layers consisting of greencolored micaschist. $\swarrow$ 80° - 76° NW.
- 619. Mafic tuff, with some white feldspar. $\swarrow$ 60° - 90°.
- 620. Mafic tuff, as above, but strongly folded.
- 621. Felsic tuff, with garnets. Weathered. $\swarrow$ 70° - 62° NW.
- 622. Mafic tuff, with quartzlenses, folded. $\nwarrow$ 122° - 54° NW.
- 623. Mafic tuff, with thin quartzitic layers and veins about 5 - 10 cm. Very fine banding of dark green/ light green layers + some thin felsic layers too. Some tiny eyes of white feldspar could be observed in the dark layers. Folded.
- S 624. Mafic tuff, with a lot of hornblende, some tiny garnets and Lenses of quartz ($\leq$ 10 cm). Very massif.

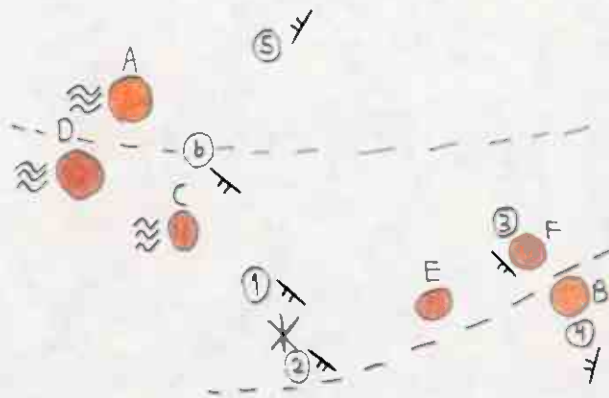
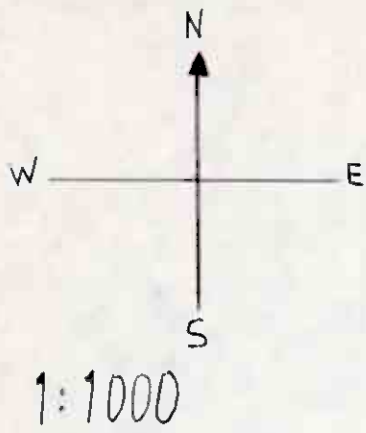
- 625. Felsic tuff, with some dark layers inbetween. Lenses/ veins of quartz ($\leq$ 20 cm). Some of the feldspar had been altered to kaoline. $\swarrow$ 66° - 52° NW.
- 626. Mafic tuff, with some green mica. $\swarrow$ 70° - 72° NW.
- S 627. Mafic tuff, with dark mica, as above.
- S 628. Mafic tuff, dark as above, but with Xtals of phyrrite. A 20 cm wide quartzdike stroke about 85°.
- S 629. Felsic tuff.
- 630. Mafic tuff, very pyroclastic with tiny fragments. $\swarrow$ 60° - 50° NW.
- S 631. Mafic tuff, very massif and consisted of dark mica, white feldspar and, at some places, large Xtals of hornblende.
- 632. Mafic tuff.
- 633. Mafic tuff, with mica. $\nwarrow$ 110° - 50° NW.
- 634. Mafic tuff, with some mica. folded, $\nwarrow$ 110° - 48° NW.
- 635. Mafic tuff, $\swarrow$ 60° - 66° NW.
- 636. Mafic tuff, pyroclastic, $\swarrow$ 66° - 82° NW.
- 637. Mafic tuff, with 5 cm wide lenses of quartz. $\swarrow$ 60° - 62° NW.
- 638. Ultrabasic rock
- S 639. Mafic tuff, with thin felsic layers, strongly folded, almost chevronfolds. Some mica, $\swarrow$ 85° - 64° NW.
- 640. Felsic tuff, with large Xtals of hornblende + tiny garnets.
- 641. Felsic tuff, with quartzveins (10 cm). Weathered.
- 642. Felsic tuff, $\swarrow$ 62° - 66° NW.
- 643. Mafic tuff, dark some white feldspar. $\swarrow$ 55° - 58° NW.
- 644. Mafic tuff, with layers of quartz (1 cm). $\swarrow$ 70° - 72° NW.
- 645. Mafic tuff, folded with broken "knee".
- 646. Mafic tuff, with some mica, folded, $\nwarrow$ 105° - 40° NW.
- 647. Mafic tuff, with mica, little Xtals of hornblende (2 - 3 mm). Folded and with quartzveins (2 cm).
- 648. Mafic tuff, as above.
- 649. Mafic tuff, as above, $\nwarrow$ 110° - 38° NW. 1 - 5 mm thick layers of quartz.
- 650. Mafic tuff, as above.

651. Mafic tuff, as above.
652. Mafic tuff, with some eyes of white feldspar. $\swarrow$ 85° - 58° NW.
653. Mafic tuff, with big inclusions of felsic tuff (25 cm across). Width of quartzlens 2 - 3 cm. Folded.
654. Mafic tuff, $\swarrow$ 70° - 56° NW.
655. Mafic tuff, $\swarrow$ 74° - 54° NW.
656. Mafic tuff, with some felsic layers inbetween.
657. Mafic tuff, as above.
658. Felsic tuff, very light with red almandine garnets. A 30 cm wide quartzdike stroke about 50°. $\swarrow$ 44° - 68° NW.
659. Mafic tuff, with some mica, $\swarrow$ 70° - 60° NW.
660. Felsic tuff a large outcrop 180 x 75 meters. Several veins of quartz ($\leq$ 5 cm). $\swarrow$ 54° - 44° NW.
661. Mafic tuff, with veins of quartz 10 - 15 cm wide. $\swarrow$ 62° - 42° NW.
662. Felsic tuff, with some mafic layers. There is a possibility that it may be a block. (20 x 10 meters in cross - section) $\swarrow$ 52° - 50° NW.
663. Felsic tuff, with some mafic layers and quartzitic layers about 2 cm thick. $\swarrow$ 70° - 58° NW.
664. Felsic tuff, some places with red feldspar. $\swarrow$ 62° - 69° NW.
665. Mafic tuff, $\swarrow$ 44° - 52° NW. There were lots of blocks in the area, both of felsic and mafic composition.
666. Mafic tuff, with some felsic layers. The rock contained Xtals of hornblende and some mica. Some massive layers of green mafic lava were observed. Quartzveins about 2 - 3 cm wide penetrated the rock. $\swarrow$ 46° - 48° NW.
667. Trondhjemite, massif. It looked like felsic tuff without hornbl.
668. Trondhjemite, as above.
- S 669. Trondhjemite, as above.
670. Trondhjemite, as above.
671. Trondhjemite, as above.
672. Mafic tuff, with some tiny veins of quartz ($\leq$ 1 cm).
673. Mafic tuff, as above.
674. Mafic tuff, big outcrop 30 x 10 meters. $\swarrow$ 72° - 82° NW.
675. Mafic tuff, as above.

676. Mafic tuff, in a hole 2 x 2 meters.
677. Mafic tuff, $\swarrow$ 100° - 80° NE.
678. Mafic tuff, with small quartzveins 2 - 3 cm. $\swarrow$ 102° - 80° NE.
679. Mafic tuff, slightly folded.
680. Mafic tuff, $\swarrow$ 84° - 82° NW.
681. Mafic tuff, with several tiny quartzveins (2 - 3 cm).
682. Mafic tuff, with some thin felsic layers. Strongly folded with amplitude about 0.5 - 1 cm and wavelenght about 1 cm.
The size of the outcrop was about 30 x 30 meters.
 $\swarrow$ 70° - 58° NW.
683. Mafic tuff, with mica and some thin felsic layers. Quartzveins up to 2 cm wide were seen. $\swarrow$ 62° - 82° NW.
684. Mafic tuff, with some thin felsic layers inbetween.
 $\swarrow$ 60° - 64° NW.
685. Mafic tuff, There was a lot of blocks in the area. $\swarrow$ 66° - 66° NW
686. Mafic tuff, with some ~~thin~~^{thick} felsic layers ($\leq$ 1 m). The rock contained garnets. $\swarrow$ 70° - 82° NW.
687. Mafic tuff, as above. A large area with lots of outcrops and b blocks. It was hard to distinguish between outcrop/block. Some quartzitic and felsic layers. $\swarrow$ 70° - 60° NW.
688. Felsic tuff, with hornblende ($\leq$ 5 mm). The garnets were bigger ($\leq$ 1.5 cm). $\swarrow$ 72° - 58° NW.
689. Mafic tuff, with mica. A lot of blocks. $\swarrow$ 66° - 60° NW.
690. Felsic tuff, with garnets. The feldspatic matrix was partly kaolinized.
691. Mafic tuff, some places it was quite massif, but elsewhere it was much lighter/softer. $\swarrow$ 74° - 56° NW.
692. Mafic tuff, with Xtals of hornblende (1 cm) and garnets (2mm)
693. Felsic tuff, with some mica, $\swarrow$ 74° - 72° NW.
694. Mafic tuff, with several lenses of quartz ($\leq$ 5 cm).
695. Felsic tuff, This one may be a bloc, because there was a lot of blocks laying around.
696. Mafic tuff, several places felsic layers were laying inbetween the mafic ones. Quartzveins 2 - 3 cm. $\swarrow$ 68° - 68° NW.
697. Mafic tuff, a little ridge 25 meters long. $\swarrow$ 68° - 58° NW.
698. Felsic tuff, with 5 cm wide quartzveins.
699. Mafic tuff, with mica and felsic layers. $\swarrow$ 74° - 56° NW.

700. Felsic tuff, with Xtals of hornblende and garnets and some mafic layers inbetween. Lots of blocks of both mafic/felsic tuff. $\swarrow$ 70° - 72° NW.
701. Mafic tuff, with mica. $\swarrow$ 66° - 66° NW. Several blocks.
702. Felsic tuff, with considerable amounts of hornblende (≤ 1 cm). $\swarrow$ 64° - 75° NW.
703. Felsic tuff, with hornblende and mica. $\swarrow$ 64° - 88° NW.
704. Mafic tuff, with garnets and sericite. Quartzlenses about 2 cm. $\swarrow$ 74° - 66° NW.
705. Mafic tuff, with mica. $\swarrow$ 55° - 60° NW.
706. Mafic tuff, with mica as above. $\swarrow$ 68° - 58° NW.
707. Mafic tuff, with a lot of mica.
- S 708. Mafic lava. Very massif, and a fresh sample showed very sharp edges.
709. Mafic lava, as above. $\swarrow$ 60° - 50° NW.
- S 710. Mafic lava, as above. $\swarrow$ 60° - 68° NW.
- S 711. Mafic lava, as above.

FIGURE 1



OUTCROP 120.

Rocktypes:

- S A) Quartzite - Mylonite
- S B) Quartzite
- S C) Augengneiss - Mylonite
- S D) Augengneiss - Mylonite
- E) Augengneiss
- F) Augengneiss

Schistossities:

- 1) 155° - 40° SW
- 2) 150° - 30° SW
- 3) 160° - 35° SW
- 4) 20° - 50° NW
- 5) 40° - 25° NW
- 6) 145° - 35° SW

FIGURE 2

OUTCROP 239.

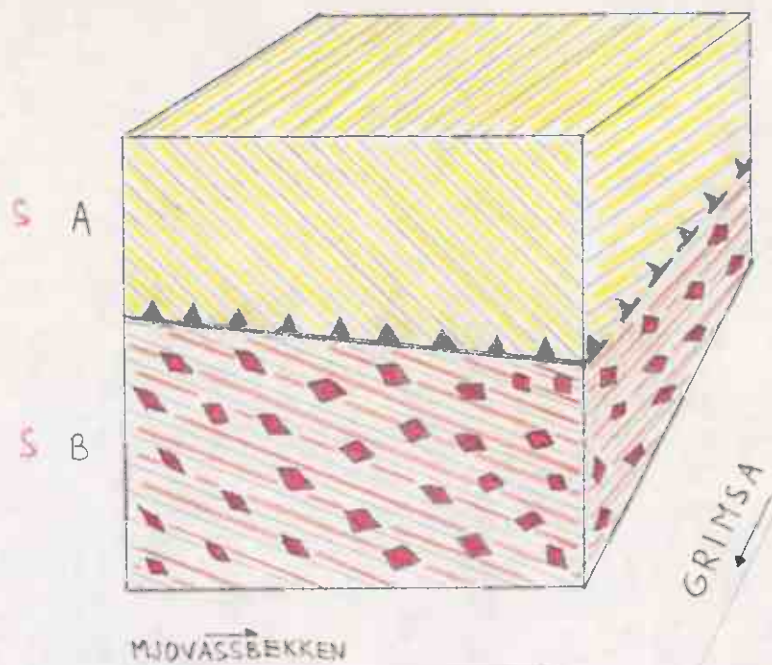


FIGURE 3

outcrop 251.

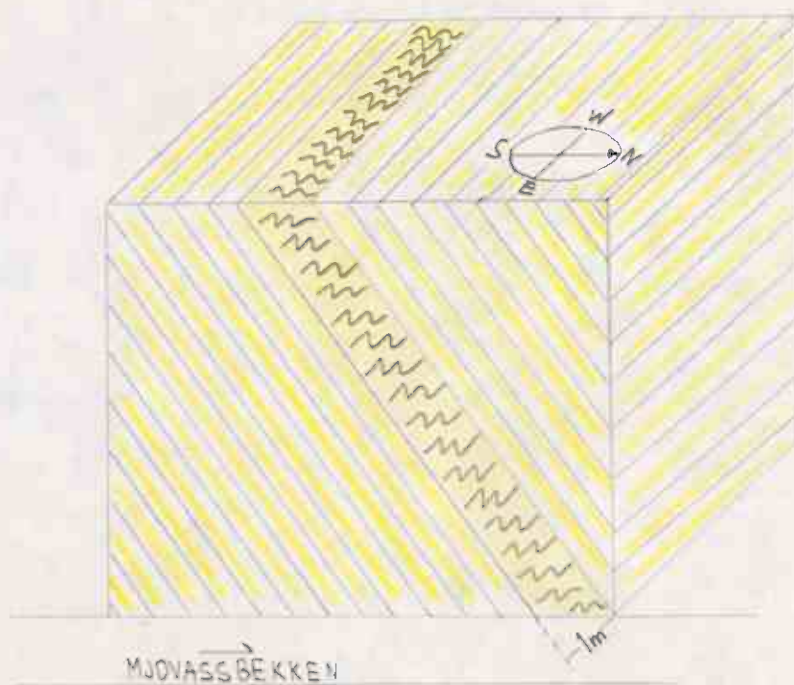
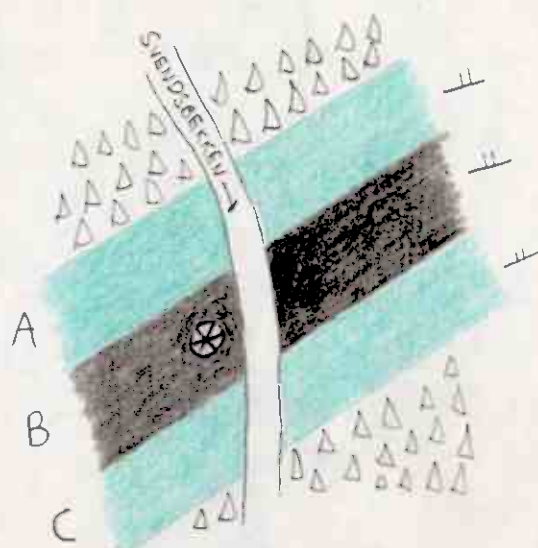
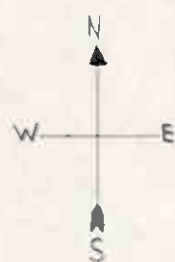


FIGURE 4

OUTCROP 444.



Rocktypes:

- S A. Mafic tuff
70° - 54° NW
- S B. Graphiteschist -
phyllite .
72° - 54° NW.
- C. Mafic tuff
70° - 44° NW.

FIGURE 5

OUTCROP 499.



- MAFIC TUFF
- FELSIC TUFF
- XTALS OF HORNBLLENDE
- ALMANDINE GARNETS
- 1 62° - 50° NW
- 2 60° - 52° NW