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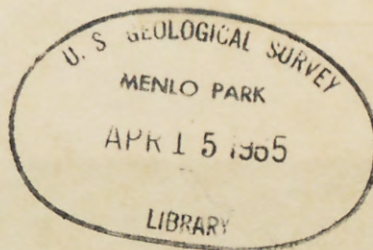
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Chemical and modal analyses of the
pre-Upper Silurian quartz monzonite. .

by

A. L. Albee



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Chemical and modal analyses of the pre-Upper Silurian
quartz monzonite and post-Lower Devonian granodiorite
Attean quadrangle, Somerset County, Maine

by A. L. Albee



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Reports, OPEN FILE REPORT
This report is preliminary and has
not been edited or reviewed for
conformity with Geological Survey
standards or nomenclature.

Chemical and modal analyses of the pre-Upper Silurian quartz monzonite,
Attean quadrangle, Somerset County, Maine

Location: east end of island; 3.10 mi. E. and 1.95 mi. N of SW corner of
SC 1/9 of Attean quad.

Lab. No. - 156031

Field nos. BA-766, BB-2526b

Weight % <u>1/</u>		Mineral composition <u>2/</u>	
SiO ₂	70.2	quartz	20
TiO ₂	.47	K-feldspar (10-25 mm)	21
Al ₂ O ₃	14.5	plagioclase - An ₃₁ - (3-8 mm) (plus alteration products)	48
Fe ₂ O ₃	1.4		
FeO	1.3	hornblende	2
MnO	.06	biotite	6
MgO	.87	chlorite	< 1
CaO	3.1	epidote	2
Na ₂ O	3.2	sphene	1
K ₂ O	3.8	apatite	< 1
P ₂ O ₅	.26	zircon	T
H ₂ O	.83		
CO ₂	< 0.05		
Total	100		

1/ Analysed by Paul Elmore, Samuel Botts, Ivan Barlow, and Gillison Chloe
using methods described in U. S. Geological Survey Bull. 1036-C.

2/ Based on 2449-point grid of 18 square inches on polished and stained slabs.

Chemical and modal analyses of the post-Lower Devonian granodiorite,

Attean quadrangle, Somerset County, Maine

Location: SW corner of Hog Island; 2.52 mi. E. and 2.76 mi. N of SW corner of EC 1/9 of Attean quad.

Lab. No. - 156030

Field nos. BA-215, BB-2525a

Weight % <u>1/</u>		Mineral composition <u>2/</u>	
SiO ₂	71.2	quartz	29.5
TiO ₂	.27	K-feldspar	21.6
Al ₂ O ₃	15.6	plagioclase - An ₃₁	40.4
Fe ₂ O ₃	1.2	white mica	1.1
FeO	.55	biotite	4.9
MnO	.04	chlorite	.8
MgO	.39	epidote	.7
CaO	2.5	opaque minerals	.5
Na ₂ O	4.4	zircon and allanite	.2
K ₂ O	3.1	sphene	.2
P ₂ O ₅	.13	apatite	T
H ₂ O	.64		
CO ₂	< 0.05		
Total	100		

1/ Analysed by Paul Elmore, Samuel Botts, Ivan Barlow, and Gillison Chloe using methods described in U. S. Geological Survey Bull. 1036-C.

2/ Based on 3658-point grid on one thin section.

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